### CENTRAL INTELLIGENCE GROUP 2430 E STREET NW. 4(11) UV WASHINGTON 25, D. COMP

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MEMORANDUM TO Captain Bosquet N. Wev, USN, JIOA, 2D267, Pentagon

Subject: Intelligence Value of German Scientists in the Atomic . Energy Field.

1. With reference to discussions between 1 = 1 and Colonel Rosamus of JIOA, it is believed a clarification  $1, 3(\alpha)$  (4) of the U.S. position on German scientific personnel in the field of atomic energy is in order.

2. Heretofore the emphasis in dealing with German scientific personnel-has been on denial of their talents to potential enemies and exploitation of their talents by the U. S. or friendly powers. Other considerations which exist may new be of greater importance than the previous objectives. These considerations are (1) that of their educational value to Germany and, (2) that of their It is believed that the consensus positive intelligence value. now is that these Germans could be of little assistance to the U. S. in the field of atomic energy though they might, within a certain range of possibilities, contribute materially to a foreign program. But even in the latter case, they could not advance such a program-beyond a certain minimum time limit. Also, from a political and economic standpoint they could, it seems, be of great value to the U.S. in its long-range objective of building up a self-sufficient Germany. Consequently I would recommend that more emphasis be placed upon them primarily as potential

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sources of positive intelligence and in reconstitution of German science and economy, 13(2)(1)

If this course is adopted the question of restraint becomes subordinated, and attractiveness of a possible foreign contract largely disappears.

3. Considering only the field of atomic energy and limiting the number of individuals to the minimum to reduce the work load and enhance security, the attached list is submitted. The individuals named appear to be the best intelligence leads for a combination of reasons: political tendencies, age, scientific ability, degree in which they will attract friends, correspondence, etc. It will be noted that a number of the individuals were not included in the JIOA Objective List, Revision II, of 8 October 1947. Also, a few individuals of the group which was collected during and immediately after the collapse of Germany are not included.

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CENTRAL INTELLIGENCE GROU, 2430 E STREET NW. WASHINGTON 25, D. C.

JIOA 2871

29 August 1947

Agency, Reem 20270, Pentagen, Washington, D. C.

SUBJECT: Siegfried Plugge

1. Confirming telephone conversation with you and Lt. Celonel. Walter J. Rosamus, I have no deregatory information on the subject or any evidence indicating specific unreliability.

2. As noted in our previous discussions the reliability of German scientific people as a class is always a matter of doubt, but responsibility for decision regarding security is outside my province.

1.3(a) (4)

60: Lt. Gen. Lewis R. Brereten, ELC Maj. Gen. Leslie Groves, AFSNP

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CENTRAL INTELLIGENCE AGENCY

SUBJECT Return of German Scientists to Russian Zone; Prof. Schemer (CIA)

- Professor Scheuer, leading German vitamin research specialist originally from Jena University, was evacuated with his assistants by U.S. forces in 1945.
  Before his evacuation he was promised an institute, apartment, food, literature, and favorable research conditions in the U.S. Zone. Upon arriving in the U.S. Zone he was held in a camp in Wuerttemberg for about 1½ years. It was reported that the food he received was bad, literature and any other aid was simply not forthcoming. It is understood that Professor Scheuer was a member of NSDAP. Later Professor Scheuer was moved to Goettingen where he had 9 sq. meters of living and working space with his wife and two children, but otherwise no improvement in his situation.
- 2. Several weeks ago information was received that Professor Scheuer planned to return to the Russian Zone. This information is now confirmed. Professor Scheuer has moved to Rehbruecke in Potsdam with all his assistants. He has there received a complete institute, with all material necessary, including all the furniture he wants, and more than adequate living quarters. It is reported that the institute, with 20 assistants, is beginning to work very well. Professor Scheuer has now taken up contact with former colleagues of his in Stuttgart, who suffered from the same difficulties and who will probably now join him. The Russians have bent over backward to fill any and all of Professor Scheuer's needs. Glass, for instance, which apparently he needed in considerable amount in the beginning, has been made available at once.
  - 3. Frofessor Scheuer is still not pro-Russian but he feels that at his time of life he cannot afford to sit idle for so many years and it is more important that he work, rather than for whom he works.

(Washington Conment: Facts similar to the above are beginning to be very well known in Berlin scientific circles. As discussed between German scientists, the general comment is made that the Western Powers are much nicer but actually are still following a strong tendency not to let research grow too important in Germany. In spite of being informed repeatedly what the Western Powers have done for the reestablishment of German research, German scientists feel that individual scientists are still unable to obtain decent living quarters decent research space, or enough help in the way of foreign publications and other necessary material. Such things as the reestablishment of the Max Planck Society are appreciated but do not solve the questions just mentioned. More positive steps to aid individual scientists will be necessary if the entire group of highly intellectual Germans are to remain as favorably disposed to the U.S. as seems desirable.

The case mentioned in the report is not the first instance in which this sort of thing has happened, but is of enough significance and importance to be brought to the attention of appropriate authorities in Washington. It may be recalled that a great number of scientists were taken out of the State of Thuringia and Saxony-Anhalt at the time this territory was turned over to the Russian forces. These scientists have been in the West ever since, but no great attention was given to their employment, feeding and housing. They

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are included on the denial list but the whole policy towards them has been negative, rather than positive, in caring for them and seeing that they are fully occupied. Added to this list are some 200 top scientists in the American Zone which are included under the denial list recently published by the Mar Department. Although all these scientists can be included in the category which would make it undesirable for them to work for the Russians, there is nothing to stop them from crossing the zonal boundary and accepting Russian employment as happened in the case of Professor Scheyer.)

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20 May 1948

|                                       | MEMORANDUM FOR :   | Joint Intelligence Group<br>Joint Staff, Room 2E 283, The Pentagon<br>Washington 25, D.C.<br>Attn: CIA Liaison  |                                       |
|---------------------------------------|--|---|---------------------------------------|
|                                       | SUBJECT:   | Transmittal of Intelligence Material  |                                       |
|                                       | REFERENCE:   | a. CIA Requirement Directive No. 3880<br>b. Your request dated 29 March 1948  |                                       |
|                                       |  | elosures are forwarded, herewith in partial eference b.   |                                       |
| · · · · · · · · · · · · · · · · · · · | occupation of the<br>remaining signif<br>the keys to whice<br>Educati<br>Functio | are No. 1 indicates the last reported scientific<br>the individuals concerned in clear text. The<br>licant information is set up in machine codes,<br>the are included in enclosure 2 as follows:<br>.on (Tab A, encl No. 2)<br>on (Tab B, encl No. 2)<br>.ohical Locations (Tab C, encl No. 2) | · · · · · · · · · · · · · · · · · · · |
|                                       | shown simply as  |   |                                       |
|                                       | on all persons f<br>This material with   | engaged in preparing additional biographical data<br>in the list for whom additional facts exist. This<br>ill be forwarded as soon as it has been processed   | 2 <u>-</u>                            |
|                                       | FOR THE ASS  | SISTANT DIRECTOR FOR COLLECTION AND DISSEMINATION   |                                       |
|                                       |  | CHARLES-RALPH NEWTON<br>Special Assistant   | ···                                   |
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| CENTRAL INTELLIGENCE GROUP |   |
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| 2430 E STREET N.V.         | _ |
| WASHINGTON 25, D.C.        |   |

RECEIPT IS ACKNOWLEDGED OF CENTRAL INTELLIGENCE GROUP. BEARING THE IDENTIFYING NUMBER\_ ABBREVIATED SUBJECT Trensmittal of Intell. Material 20 Kay 18 NITH 2 ENCLOSURES." 1 PLEASE RETURN THIS RECEIPT MEDIATELY TO: SIGNATURE . Halversen, GSC Col ŧ Boom 28-283 POSITION CENTRAL INTELLIGENCE GROUP DEPARTNENT OR AGENCY 2430 E STREET N.W. HINGTON 25. D C. returned to Col. DATE TIME - 12005 - St. Holieren Vieno 1948 temennt Approvad for elease Date 83402 -99



CENTRAL INTELLIGENCE AGENCY

WASHINGTON 25, D. C.

JIOA 11834 1883

25 May 1948

MEMORANDUM FOR: Director, Joint Intelligence Objectives Agency Joint Chiefs of Staff

SUBJECT: Request for Information Concerning German Specialists

REFERENCE: Memorandum from Director, JIOA, dated 29 April 1948, subject as above

1. Transmitted herewith in response to request contained in reference, above, is a summary of the information reported to this Agency on the following nemed individuals:

> FIEDLER, Willy A. LUSSER, Robert WEINBLUM, Dr. Paul G. LAVES, Dr. Fritz

2. CIA has no record of Heina WASSHAUSEN.

KENNETH K. ADDICOTT

5 m x = m 1498- 29 April- 1948 TICIA

Executive Assistant Director Office of Collection and Dissemination

Encl: 1

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## JOGRAFHIC INTELLIGENCE REGISTER

### FIEDLAR, Willy A.

Dipl. Ing. Willy Fiedler lives in Natern, Wuerttemberg. In May 1945 he spent three weeks in Paris in American detention. His family at Waldsee, Lake Constance, was visited and questioned by Franch troops in his absence. Fiedler has since gone into business for himself. He does not desire to work for the French because he dislikes their political aims and anticipates American intervention in the French airplane construction program.

Fiedler claims that Dipl. Ing. Lusser, Friesing, Post-Mussdorf, bei Rosenheim, Baveria, is the inventor of the V-1. IAC Agency, Washington, D. C. 16 February 1946

LUSSER, Robert

1,3(9)(4)

According to Dipl. Ing. Willy A. Fiedler (see above) Lusser is the inventor of the V-1. Lusser is reported living with this family at Friesing, Post Mussdorf, bei Rosenheim, Bavaria. None of the Allies has made any effort to contact him.

IAC Agency, Washington, D. C. 16 February 1946

Dipl. Ing. Lusser of Messerschaitt, working on V-1 in the French Zone.

Development of an improved steering device for V-1's, particularly to give greater accuracy of steering to the types constructed by Dipl. Ing. <u>Lusser</u>, which reach 950 Km/h (590 mph), one of the jobs assigned to a French plant to be developed by Dipl. Ing. Jarsen. IAC Agency, Washington, D. C. 17 July 1946

WEINBLUM, Dr. Paul G.

Specialist in construction of ships, ship propulsion, marine engineering.

IAC Agency, Washington, C. D. 24 June 1946

LAVES, Dr. Frite

Prof. of Chemistry; X-ray crystallography; publications in scientific journals. Wife, 2 daughters, age 42. Author "Atomabstande in Kristallen", Naturwissenschaften 1937. IAC Agency, Washington, D. C. 24 June 1946

Left Marburg to accept-a-professorship at Univ. of Munisch, September 1946. German Fress Report

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25 May 1948

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| PIELE, VILLY A.       |  |
|-----------------------|--|
| LUSSER, Lobert        |  |
| VELICIUM, Dr. Feal 9. |  |
| LATIS, Dr. Prits      |  |

2. CIA bas no record of Beins WASSBAUSES.

REGISTER K. ADDIGOTT Executive Assistant Director Office of Collection and Dissonination

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> FILE DIST: 383.7 Central Intelligence Agency -363.7 Escape Clamas

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# JIOORAPHIC INTILLA ONNEL REGISTE

FISDLER, VILLY A.

Dipl. Ing. Willy Fiedler lives in Kabern, Warritemberg. In Nay 1945 he spent three works in Faris in American detention. His family at Waldsse, Lake Constance, was visited and questioned by French troops in his ubsence. Fiedler has since gone into business for himself. He does not desire to work for the French because he dislikes their political sime and anticipates American intervention in the French airplane construction program.

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#### 1095 FR. Robert

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VIININ, Dr. Paul 0.

Specialist in construction of ships, ship propalsion, marine engineering.

LAC Agency, Manhington, C. D. 24 June 1946

LAVES, Dr. Frive

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Left Marburg to accept a prefessorship at Univ. of Munisch. September 1946. German Press Report



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a wealth of war potential information, but is acquainted with all the other important European scientists who possess a like knowledge. This list is as follows:

- (a) Carl Krauch, Chairman of the Supervisory Board of Directors of I G Farben and General=Plenipotentiary for Chemical Production on Goering's staff. One of the top industrial\_scientists of Germany.
  - ber of the Managing Board of Directors and of the Central Committee; Chief, Division 1; Chief, Liaison Office W; Member, NSDAP, NSFK, and German Labor Front; Military Economy Leader; Holder of Knight's Cross of the War Merit Cross; Member, Advisory Council, Economic Group Chemical Industry; Chief, Reich Office for Economic Development; Chief, Research and Development Department, Office for German Raw Materials and Synthetics, Four Year Plan; Member, German Academy for Aviation Research; Senator, Kaiser Wilhelm Society; Honorary Member, Association of German Chemists; Member, Directorate, Reich Research Council; and chairman, deputy chairman and/or board member of other industrial firms, combines, and enterprises, within Germany and the occupied countries.7
- (b) Hermann Schmitz, Chairman of the I G Farben Managing Board of Directors.

(4) Stag; Military Economy Leader; Member, Goering Committee of Experts on Raw Materials Questions; Member, Select Advisory Council, Reich Group Industry; Member, Board of Directors, Bank of International Settlements, Basle; Chairman, Currency Committee, Reichsbank; Member, Academy for German Law; Member, Committee for Corporate Law; Chairman, Board of Directors, House of German Art; and chairman, deputy chairman and/or board member of other industrial firms, combines, and enterprises, within Germany and the occupied countries and elsewhere./

(c) Georg von Schnitzler, Chief of the Commercial Committee of 1.3(a)(4) the Managing Board of Directors.

Central Committee; Chief; Sales Combine Dyestuffs; Chief, Sales Combine Chemicals; Chairman, Dyestuffs Committee; Chairman, Chemicals Committee; Member, NSDAP; Captain, SA; Member, German Labor Front; Member, NSKK; Military Economy Leader; Member, Greater Advisory Council, Reich Group Industry; Chairman, Permanent Committee for Exhibitions and

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Fairs, and Committee for Economic Propaganda of Industry, Reich Group Industry; Member, Committee for Foreign Trade, Reich Group Industry; Deputy Chairman, Economic Group Chemical Industry; Chief, Sub-Group 16, Tar Dyes and Tar Dye Intermediates, Economic Group Chemical Industry; Chairman, Council for Propaganda of German Economy, Ministry of Propaganda; Representative of German Group in Dyestuffs Four-Party Cartel; Chairman, Interstate German-Belgian Committee; Vice President, Court of Arbitration, International Chamber of Commerce; Vice Chairman, German-Italian Studies Foundation; Member, German-Spanish Society; Member, German-French Society; Menber, Directorate, German Group of International Chamber of Commerce; and chairman, vice chairman and/or board member of other industrial firms, combines, and enterprises within Germany, the occupied countries and elsewhere./

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- (d) Fritz Gajewski, Plant Leader of Wolfen Film Plant and Manager of "AGFA" Plants located at Wolfen Filmfabrik, Berlin-Lichtenberg, Premnitz, Landsberg, Munich-Camerawerk, Bobingen, Rottweil, 1931-1945, which produced photographic materials, artificial silk, synthetic fibers, cellulose wool, cellulose, all kinds of cellulose products and ozalid.
  - Of Directors and of the Central Committee; Chief, Division 3; Deputy Chairman, Technical Committee; Member, NSDAP; Member, German Labor Front; Member, National Socialist Bund of German Technicians; Member, Reich Air Raid Frotection Bund; Military Economy Leader; Member, Advisory Council, Economic Group Chemical Industry; Member, Sub-group for Chemical Production of Artificial Fibres, Economic Group Chemical Industry; Member, Artificial Fibres, Economic Group Chemical Industry; Member, Artificial Fibres Committee, Economic Group Textile Industry; Member, Sub-group for Cellulose Production, Economic Group Paper, Cardboard, Cellulose and Wood Pulp Production; Member, Chamber of Industry and Commerce, Halle/Saale; Chairman, Pension Fund of Agfa of Employees of I G Farben A G, Wolfen-Bitterfeld; Member, Managing Board of Directors, Plant Savings Association, Ludwigshafen; Chief, Section V, Trade Association of Chemical Industrie, Leipzig; Deputy Member, Saxony Country Union of the Reich Union of Industrial Trade Associations, Dresden; Member, Board of Trustees, Central European Economic Diet; and chairman, deputy chairman and/or board member of other industrial firms, combines, and enterprises within Germany and the occupied countries./
- (e) Heinrich Hoerlein, Plant Leader of the Elberfeld Plant, 1933-1941, and Manager of the Elberfeld Plant, 1931-1941, which produced pharmaceuticals, organic intermediates, insecticides, biologicals, and research in pharmaceuticals and chemicals for plant protection and pest destruction.

113 (\*) (4) Directors and of the Central Committee; Member, Technical Committee; Chairman, Pharmaceuticals Main Committee; Member, NSDAP; Member, German Labor Front; Member, National Socialist Bund of German Technicians: Chairman. Julius Liebig Society; TreasurerApproved for Release: 2022/06/22 C00010786 per. German Chemical

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ical Industry: Chief. Sub-Group 16. Tar Dyes and Tar Dye IntermediApproved for Release: 2022/06/22 C00010786Justry; Chairman, Council for Propaganda of German Economy, Ministry of Propaganda; Representative of German Group in Dyestuffs Four-Party Cartel; Chairman, Interstate German-Belgian Committee; Vice President, Court of Arbitration, International Chamber of Commerce; Vice Chairman, German-Italian Studies Foundation; Member, German-Spanish Society; Member, German-French Society; Member, Directorate, German Group of International Chamber of Commerce; and chairman, vice chairman and/or board member of other industrial firms, combines, and enterprises within Germany, the occupied countries and elsewhere./

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(4) Directors and of the Central Committee; Member, Technical Committee; Chairman, Pharmaceuticals Main Committee; Member, NSDAP; Member, German Labor Front; Member, National Socialist Bund of German Technicians; Chairman, Julius Liebig Society; Treasurer, Kaiser Wilhelm Society; Treasurer, German Chemical Association; Chairman, Advisory Council, Deutsche Bank; Member, Chamber of Commerce, Wuppertal; and chairman and/or board member of other industrial firms, combines, and enterprises within Germany and the occupied countries,

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Approved for Release: 2022/06/22 C00010786 و در ۲۰ 57963 August von Knieriem, Chief Counsel of I G Farben. 113(9)(4) Member of the Managing Board of Directors and of the Central Committee; Chairman, Patent Committee; Member, NSDAP; Member, German Labor Front; Member, National Socialist Lawyers-Association; Member, German Society of Nobles; Member, Committee for Patents and Trademarks, Reich Group Industry; Member, Committee for Market Regulation and Business Economics, Reich Group Industry; Member, Law Committee, Reich Group Indústry, and of the following special sub-committees: Corporation Law, Law for Limited Companies, and Law of Conditional Transfer of Property; Member, Board Committee for Cartel and Tax Policies, Business Economics Questions, and Market Problems, Reich Group Industry; Member, Academy for German Law; Chairman, Committee for the Law of Copyright; Member, Working Association for German-Hungarian Legal Relations, Academy for German Law; Member, Working Association for Four Year Plan Questions within Framework of Patent Committee; Member, Patents and Trademarks Law Committee; Member, Patent Law Committee; Member, Trademarks and Competition Committee; Member, German Working Association for Legal Protection of Industry and Patent Law; Full Member, International Chamber of Law; Chairman, Section "Industrial Legal-Protection", International Chamber of Law; Member, Committee for Questions of Industrial Legal Protection, International Chamber\_of Commerce; Member, Committee for Questions of International Cartels, International Chamber of Commerce; Member, Kaiser Wilhelm Society; Board Member, International Hydrogen-ation Patents Co, The Hague, Holland; Board Member, International Hydrogenation Engineering and Chemical Co, The Hague,

firms, combines, and enterprises within Germany and the occupied countries.7

(g) Fritz Ter Meer, Chief of the Technical Committee of the Managing Board of Directors, and Chief of the Directional Group in charge of production of synthetic rubber, poison gas, dyestuffs, various chemicals. light metals, and pharmaceuticals.
1,3 (a) (4) Member of the Central Committee. Chief and the second second

Holland; and chairman or board member of other industrial

Kember of the Central Committee; Chief, Division 2; Member, NSDAP; Member, German Labor Front; Military Economy Leader; Commissioner and Armament Commissioner of the Commissioner for Italy of the Reich Ministry for Armament and War Production; Member, Economic Group Chemical Industry; Member, Advisory Council, Economic Group Chemical Industry; Chief, and Chairman, Production Committee, Sub-group 1, Other Inorganic Products, Economic Group Chemical Industry; Member, Advisory Council, Chamber of Industry and Commerce, Rhein-Main Region, Frankfurt; Chairman, Trade Association of Chemical Industry, Berlin; Member, Advisory Council, Reich Union of Industrial Trade Associations, Berlin-Wilmersdorf; Member, House of Technology, Gau Hessen-Nassau; President, Emil Fischer Society; Chairman, Administrativ Committee of the Kaiser Wilhelm Institute for Chemistry; Member, Scholarship Committee. Justus Liebig Society: Treasurer, Chemical Group, National Approved for Release: 2022/06/22 C00010786 jansi: and chairman.

Patent Committee; Member, NSDAP; Member, German Labor Front; ----Member, Approved for Release: 2022/06/22 C00010786 ation; Member, German Society of Nobles; Member, Committee for Patents and Trademarks, Reich Group Industry; Member, Committee for Market Regulation and Business Economics, Reich Group Industry; Member, Law Committee, Reich Group Industry, and of the following special sub-committees: Corporation Law, Law for Limited Companies, and Law of Conditional Transfer of Property; Member, Board Committee for Cartel and Tax Policies, Business Economics Questions, and Market Problems, Reich Group Industry; Member, Academy for German Law; Chairman, Committee for the Law of Copyright; Member, Working Association for German-Hungarian Legal Relations, Academy for German Law; Member, Working Association for Four Year Plan Questions within Framework of Patent Committee; Member, Patents and Trademarks Law Committee; Member, Patent Law Committee; Member, Trademarks and Competition Committee; Member, German Working Association for Legal Protection of Industry and Patent Law; Full Member, International Chamber\_of Law; Chairman, Section "Industrial Legal Protection", International Chamber of Law; Member, Committee for Questions of Industrial Legal Protection, International Chamber of Commerce; Member, Committee for Questions of Inter-national Cartels, International Chamber of Commerce; Member, Kaiser Wilhelm Society; Board Member, International Hydrogenation Patents Co, The Hague, Holland; Board Member, International Hydrogenation Engineering and Chemical Co, The Hague, Holland; and chairman or board member of other industrial firms, combines, and enterprises within Germany and the occupied countries./

(g) Fritz Ter Meer, Chief of the Technical Committee of the Managing Board of Directors, and Chief of the Directional Group in charge of production of synthetic rubber, poison gas, dyestuffs, various chemicals. light metals, and pharmaceuticals, Memoer of the Central Committee: Chief House

Member of the Central Committee; Chier **DIV1**sion 2; Member, NSDAP; Member, German Labor Front; Military Economy Leader; Commissioner and Armament Commissioner of the Commissioner for Italy of the Reich Ministry for Armament and War Production; Member, Economic Group Chemical Industry; Member, Advisory Council, Economic Group Chemical Industry; Chief, and Chairman, Production Committee, Sub-group 1, Other Inorganic Products, Economic Group Chemical Industry; Member, Advisory Council, Chamber of Industry and Commerce, Rhein-Main Region, Frankfurt; Chairman, Trade Association of Chemical Industry, Berlin; Member, Advisory Council, Reich Union of . Industrial Trade Associations, Berlin-Wilmersdorf; Member, House of Technology, Gau Hessen-Nassau; President, Emil Fischer Society; Chairman, Administrativ Committee of the Kaiser Wilhelm Institute for Chemistry; Member, Scholarship Committee, Justus Liebig Society; Treasurer, Chemical Group, National Socialist Bund of German Technicians; and chairman, deputy chairman, or board member of other industrial firms, combines, and enterprises within Germany, the occupied countries and elsewhere.



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(1) Otto Ambros, Member of the Managing Board of Directors. Manager of the following plants: Schkopau (Buna I), 1935-1945; Ludwigshafen-Oppau (Organic, Intermediates and Dyestuffs Plants and Laboratories), 1938-1945; Huels (Buna II), 1938-1945; Ludwigshafen (Buna III), 1941-1945; Auschwitz (Buna IV), 1941-1945; Gendorf (Inorganic), 1941-1945; Dyhernfurt, 1941-1945; Falkenhagen, 1942-1945; which produced synthetic rubber, inorganics and nitrogen, organic intermediates, solvents, plasticisers, methanol, plastics, accelerators, dyestuffs, dyeing and printing auxiliaries, detergent raw materials, poisonous gas and intermediates. Ambros is one of Germany's most brilliant industrial chemists. He was in charge of plant expansions and supervised the synthetic rubber industry (Buna) in which synthetic rubber was produced and stockpiled for the German war machine, using as raw materials air, water, and an inferior grade of coal. He is an expert on the terrain and industrial capacity of Poland and could give detailed information on the I G Farben Buna Plant at Auschwitz. In fact, he could give invaluable information on industrial conditions and plants Approved for Release: 2022/06/22 C00010786 pone and particu-

(Leuna), 1938-1945; Deputy Manager, Ammoniakwerk, Merseburg. and Manage Approved for Release: 2022/06/22 C00010786 e plants produced inorganics and nitrogen, organic intermediates, solvents, plasticisers, methanol, dyeing and printing auxiliaries. detergent, raw materials, pasoline, and lubricating oils. Member of the Managing Board of Directors and of the Central Committee; Chief, Division 1; Chief, Central-Personnel Department; Chief Counter-Intelligence Agent, OKW-Abwehr; Chief of Plant Leaders: Member, NSDAP; Supporting Member, SS; Member, German Labor Front; Member, Advisory Council, Economic Group Chemical Industry; Member, Committee for Supervision of Health, Reich Group Industry; Member, Advisory Council, Chamber of Economics of the Central Elbe Region; Member, Experts Committee, Reich Trustee of Labor, Economie Territory Central Elbe, Magdeburg; Member, Advisory Council, Industrial Department of the Chamber of Economics, Magdeburg; Vice-Chairman, Chamber of Industry and Commerce, Halle/Saale; Member, Committee of Reich Institute for Professional Training in Commerce and Industry; Member, Managing Board of Directors, Trade Association of Chemical Industry; Member, Labor Chamber, Halle/Saale; Member, Advisory Council of Gau Leader of NSDAP, Gau Administration Halle-Merseburg; Member, Working Committee of German Labor Front, Gau Administration Halle-Merseburg; Member, Association of Employers of the Gau Administration Halle-Merseburg of the NSDAP; Assistant, Gau Economic Advisory of NSDAP, Gau Administration Halle-Merseburg; Member, Prussian Provincial Council; Honorary Member, Finance Court of the Country Treasury, Magdeburg; and chairman and/or board member of other industrial firms, combines, and enterprises within Germany and the occupied countries./

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(i) Otto Ambros, Member of the Managing Board of Directors. Manager of the following plants: Schkopau (Buna I), 1935-1945; Ludwigshafen-Oppau (Organic, Intermediates and Dyestuffs Plants and Laboratories), 1938-1945; Huels (Buna II), 1938-1945; Ludwigshafen (Buna III), 1941-1945; Auschwitz (Buna IV), 1941-1945; Gendorf (Inorganic), 1941-1945; Dyhernfurt, 1941-1945; Falkenhagen, 1942-1945; which produced synthetic rubber, inorganics and nitrogen, organic intermediates, solvents, plasticisers, methanol, plastics, accelerators, dyestuffs, dyeing and printing auxiliaries, detergent raw materials, poisonous gas and intermediates. Ambros is one of Germany's most brilliant industrial chemists. He was in charge of plant expansions and supervised the synthetic rubber industry (Buna) in which synthetic rubber was produced and stockpiled for the German war machine, using as raw materials air, water, and an inferior\_grade\_of coal. He\_is\_an expert on the terrain and industrial capacity of Poland and could give detailed information on the I G Farben Buna Plant at Auschwitz, In fact, he could give invaluable information on industrial conditions and plants in general in all of Western Europe, and particu-larly the Ludwigshafen plant of I G Farben in the French Zone. The French were extremely thterested in Ambros, wanted him to rebuild the Ludwigshefen plant. in addition, he is

an expert on poison gas, and the tremendous poison gas program of the Nazis during the war was under his immediate

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supervision. In particular, the two new extremely deadly poison gases developed by the Nazis during the war, tabun and sarin, were under his personal supervision. It was Ambros who personally persuaded Hitler not to use these gases during the war. It is also probable that Ambros would have a rather detailed knowledge of the Norskhydro Norwegian heavy water plant, which was destroyed during the war, but in which I G Farben was the largest single stockholder.

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Committee; Member, Chemicals Committee; Chairman, Plastics and Rubber Committee; Chairman, Detergent Raw Materials Committee; Chairman, Intermediates Committee; Member, NSDAP, Member, German Labor Front; Military Economy Leader; Holder of Knight's Cross of the War Merit Cross; Chief, Special Committee Plastics, Reich Ministry of Armaments and Munitions; Special Consultant to Chief, Research and Development Department, Four Year Plan; Chief, Special Committee C, Chemical Warfare; Chief, Sub-group Textile Auxiliaries, Economic Group Chemical Industry; Expert for buna, Economic Group Chemical Industry; Chairman, Production Committee, Sub-group Carbide Chemistry, Methanol and Charcoal, Economic Group Chemical Industry; and chairman and/or board member of numerous industrial firms, combines, and enterprises within Germany and the occupied countries.7

 (j) Max Brueggemann, Secretary of the Managing Board of Directors and an expert on pharmaceuticals.
1.3 (a)(4) Deputy Chief, Sales Combine Pharmaceuticals and Plants Pro-

- tective Agents; Director, Legal, Patent, and Plants Proments, Works Combine Lower Rhine; Member, NSDAP; Member, German-Labor Front; Vice-Chairman, Chamber of Industry and Commerce, Solingen; and chairman and/or board member of numerous industrial firms, combines, and enterprises within Germany and the occupied countries.
- (k) Ernst Buergin, Plant Leader of Bitterfeld-Wolfen Plants, 1938-1945, which produced inorganics and nitrogen, organic intermediates, plastics, magnesium and aluminum, dyestuffs, dyeing and printing auxiliaries, detergent raw materials, insecticides, light metals.
- 1.3 (9) (4) Directors; Member, Technical Committee; Chief, Works Combine Central Germany; Chairman, Chlorine Sub-Committee; Member, NSDAP; Member, German Labor Front; Military Economy Leader; Collaborator of Krauch in Four Year Plan; Chairman, Technical Committee, Sub-group Soda, Caustic Alkalines, Chlorine, Hydrochloric Acid and Related Products, Economic Group Chemical Industry; and chairman and/or board member of other industrial firms, combines, and enterprises within Germany and the occupied countries.7
  - (1) Heinrich Buetefisch, Technical Chief of Leuna Works, Merseburg, 193 Approved for Release: 2022/06/22 C00010786/erk, Merseburg,

Amoros who personally persuaded Hitler not to use these gases dur Approved for Release: 2022/06/22 C00010786' that Ambros would have a rather actailed knowledge of the Norskhydro Norwegian heavy water plant, which was destroyed during the war, but in which I G Farben was the largest single stock-<u>holder</u> 4 1.3 (2)(4) Member, Technical committee; Member, Chemicals Committee; Chairman, Plastics and Rubber Committee; Chairman, Detergent Raw Materials Committee; Chairman, Intermediates Committee; Member, NSDAP Member, German Labor Front; Military Economy Leader; Holder of Knight's Cross of the War-Merit Cross; Chief, Special Committee Plastics, Reich Ministry of Armaments and Munitions; Special Consultant to Chief, Research and Development Depart-ment, Four Year Plan; Chief, Special Committee C, Chemical Warfare; Chief, Sub-group Textile Auxiliaries, Economic Group Chemical Industry; Expert for buna, Economic Group Chemical Industry; Chairman, Production Committee, Sub-group Carbide Chemistry, Methanol and Charcoal, Economic Group Chemical Industry; and chairman and/or board member of numerous in-dustrial firms, combines, and enterprises within Germany and the occupied countries./ Max Brueggemann, Secretary of the Managing Board of Directors (j) and an expert on pharmaceuticals. Deputy General Manager, Leverkusen; Deputy Chief, Sales Combine Pharmaceuticals and Plants Pro-1.3 (9)(4) tective Agents; Director, Legal, Patent, and Personnel Departments, Works Combine Lower Rhine; Member, NSDAP; Member, German Labor Front; Vice-Chairman, Chamber of Industry and Commerce, Solingen; and chairman and/or board member of numerous industrial firms, combines, and enterprises within Germany and the occupied countries.7 Ernst Buergin, Plant Leader of Bitterfeld-Wolfen Plants, (k) 1938-1945, which produced inorganics and nitrogen, organic intermediates, plastics, magnesium and aluminum, dyestaffs, dyeing and printing auxiliaries, detergent raw materials, insecticides. light-metals. Member, Managing Board of 1,3(9)(4) Directors; Member, Technical Committee; Chief, Works Combine Central Germany; Chairman, Chlorine Sub-Committee; Member, NSDAP; Member, German Labor Front; Military Economy Leader; Collaborator of Krauch in Four Year Plan; Chairman, Technical Committee, Sub-group Soda, Caustic Alkalines, Chlorine, Hydrochloric Acid and Related Products, Economic Group Chemical Industry; and chairman and/or board member of other industrial firms, combines, and enterprises within Germany and the occupied countries./ (1)Heinrich Buetefisch, Technical Chief of Leuna Works, Merseburg, 1931-1945; Deputy Manager, Ammoniakwerk, Merseburg, 1934-1945; and Chief - (Syn. gasoline), Auschwitz, 1941-1945; which produced nitrogen, gasoline, lubricating oil, methanol mersol, organic intermediates and sust aoid, Member, Managing Board of Directors; Member, Technical Committee; Military Economy Leader; Holder of Knight's Cross 834021-25



of the War Merit Cross; Member, Himmler Circle of Friends; Member, NSDAP; Lieutenant Colonel, SS; Member, German Labor Front; Member, NSKK; Member, NSFK; Member, National Socialist Bund of Technicians; Collaborator of Krauch in Four Year Plan; Chief, Committee for Oil, Reich Ministry of Armament and Munitions; Production Commissioner for Oil, Ministry of Armaments; Chief, Economic Group Liquid Fuel Industry; Chief, Working Association for Hydrogenation, Synthesis and Smoldering, Economic Group Liquid Fuel Industry; President, Technical Experts Committee, International Nitrogen Convention; Chairman, Working Association Fertilizers; and chairman, deputy chairman, and/or board member of other industrial firms, combines, and enterprises within Germany and the occupied countries./

 (m) Paul Haefliger, Member of the Managing Board of Directors and an expert on light metals.
(4) Vice-Chairman, Central-Management, Sales Combine Chemicals;
Member, Chemicals Committee; Member, Southeast Europe Committee; Member, East Asia Committee; Member, East Committee; Member, Propaganda Committee; Member, German Labor Front; and chairman, deputy chairman and/or board member of other industrial firms, combines, and enterprises within Germany and the occupied

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(n) Max Ilgner, Member of the Managing Board of Directors and a director of intelligence, espionage and propaganda activities.

chief, Berlin-NW7 Departments, including WIPO (Economic Policy Department), VOWI (Economic Research Department), and ZEFI (Central Finance Administration); Member, Commercial Committee; Member, NSDAP; Member, German Labor Front; Member, NSKK; Mem-ber, National Socialist Reich Soldiers' Bund; Member, Reich Film Chamber; Member, Reich Colonial Bund; Military Économy Leader; Member, Circle of Foreign Trade Experts, Ministry of Propaganda; Member, Circle of Foreign Trade Experts for Foreign Economic Questions; President, Carl Schurz Association; Vice President, Central European Economic Diet; Member, German-American Economic Association; Member, Managing Board of Directors, Economic Association for Central and South America; Deputy Chairman, Board of Directors, German-Bulgarian Chamber of Commerce; Member, German-Norwegian Chamber of Commerce; Member, Committee for Foreign Trade and Currency\_ Questions of the International Chamber of Commerce, Paris; Deputy Member, Council of Trustees, Institute for Market Analysis, Berlin; Chairman, Southeast Committee, Reich Group Industry; Chairman, Hungary Committee, Reich Group Industry; Chairman, German Group of the German-Roumanian Experts Committee for Questions of Financing Industry, Southeast Com-mittee, Economic Group Chemical Industry; Member, Working Committee for Foreign Trade Questions; Member, miscellaneous German political and public agencies and international propaganda associations; and chairman and/or board member of other indiApproved for Release: 2022/06/22 C00010786ses within Germany,

Bund of Technician, Collection NSFK; Member, National Socialist Bund of Technician, Collection 2022/06/22 CO0010786h in Four Year Plan; Chief, Commissioner for Oil, Ministry of Armaments; Chief, Economic Group Liquid Fuel Industry; Chief, Working Association for Hydrogenation, Synthesis and Smoldering, Economic Group Liquid Fuel Industry; President, Technical Experts Committee, International Nitrogen Convention; Chairman, Working Association Fertilizers; and chairman, deputy chairman, and/or board member of other industrial firms, combines, and enterprises within Germany and the occupied countries.

(m) Paul Haefliger, Member of the Managing Board of Directors and an expert on light metals. 1/3(a)(4) Member, Commercial Committee;

Vice-Chairman, Central Management, Sales Commercial Committee; Vice-Chairman, Central Management, Sales Combine Chemicals; Member, Chemicals Committee; Member, Southeast Europe Committee; Member, East Asia Committee; Member, East Committee; Member, Propaganda Committee; Member, German Labor Front; and chairman, deputy chairman\_and/or board member of other industrial firms, combines, and enterprises within Germany and the occupied countries\_7

(n) Max Ilgner, Member of the Managing Board of Directors and a director of intelligence, espionage and propaganda activities.

chie:, Berlin NW7 Departments, including WIPO (Economic Policy Department), VOWI (Economic Research Department), and ZEFI (Central Finance Administration); Member, Commercial Committee; Member, NSDAP; Member, German Labor Front; Member, NSKK; Member, National Socialist Reich Soldiers' Bund; Member, Reich Film Chamber; Member, Reich Colonial Bund; Military Économy Leader; Member, Circle of Foreign Trade Experts, Ministry of Propaganda; Member, Circle of Foreign Trade Experts for Foreign Economic Questions; President, Carl Schurz Association; Vice President, Central European Economic Diet; Member, German-American Economic Association; Member, Managing Board of Directors, Economic Association for Central and South America; Deputy\_Chairman, Board of Directors, German-Bulgarian Chamber of Commerce; Member, German-Norwegian Chamber of Commerce; Member, Committee for Foreign Trade and Currency Questions of the International Chamber of Commerce, Paris; Deputy Member, Council of Trustees, Institute for Market Analysis, Berlin; Chairman, Southeast Committee, Reich Group Industry; Chairman, Hungary Committee, Reich Group Industry; Chairman, German Group of the German-Roumanian Experts Committee for Questions of Financing Industry, Southeast Com-mittee, Economic Group Chemical Industry; Member, Working Committee-for Foreign Trade Questions; Member, miscellaneous German political and public agencies and international propaganda associations; and chairman and/or board member of other industrial firms, combines, enterprises within Germany, the occupied countries and elsewhere.

(o) Friedrich Jaehne, Member of the Managing Board of Directors and Chief Engineer in charge of construction and physical plant\_development.

Chairman, Engineering Committee;

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Chief, Engineering Department, Hoechst; Deputy Chief, Works Combine Main Valley; Member, Technical Committee; Member, NSDAP; Member, German Labor Front; Military Economy Leader; Member, Greater Advisory Council, Reich Group Industry; Member, Finance Committee, Hesse Regional Trustee Agency for Plant Air Raid Protection, Reich Group Industry, Frankfurt; Vice-Chairman, and Chief, Industrial Department, Gau Chamberof Economics, Hesse, District Office Hesse, Reich Group Industry; Member, German Standardizing Committee; Member, Managing Board of Directors and Advisory Council, Reich Union of Technical Supervisory Associations; Member, Advisory Council, Managing Board of Directors, and Chief, Technical Ccmmittee, Trade Association of the Chemical Industry; Regional Plenipotentiary for Business Transport of the Reich Railway Management, Frankfurt; Member, Board of Trustees, Reich X-ray Agency of the Government Office for Testing of Materials, Berlin; and chairman and/or board member\_of numerous industrial\_firms, combines, and enterprises within Germany\_and the occupied countries\_7

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 (q) Carl Lautenschlaeger, Plant Leader\_at Hoechst Plant, 1938-1945, which produced inorganics, solvents, organic intermediates, plastics, pharmaceuticals, compressed gases, welding and cutting equipment and oxygen.

welding and cutting equipment and oxygen. Member, Managing Board of Directors; Member, Technical Committee; Chief, Works Combine Main Valley; Member, NSDAP; Member, German Labor Front; Military Economy Leader; Member, Managing Board of Directors, Koch-Institut, Frankfurt; Member, Managing Board of Directors, Behring-Institut, Marburg; Member, Research Council, Kaiser Wilhelm Society for Psychiatry, Munich; and chairman, deputy chairman and/or board member of other industrial firms, combines, and enterprises within Germany and the occupied countries.

Wilhelm Mann, Member of the Managing Board of Directors. -Clai Committee: Member. East Asia Committee; Chairman, East Committe Approved for Release: 2022/06/22 C00010786 mmittee: Member.

Member, Grance Committee Hasse Besideral Trustee Agency for Plant AiApproved for Release: 2022/06/22 C00010786 dustry, Frankfurt; Vice-Chairman, and Chief, Industrial Department, Gau Chamber of Economics, Hesse, District Office Hesse, Reich Group Industry: Member, German Standardiging Committee, Worker Industry; Member, Gérman Standardizing Committee; Member, Managing Board of Directors and Advisory Council, Reich Union of Technical Supervisory Associations; Member, Advisory Council, Managing Board of Directors, and Chief, Technical Committee, Trade Association of the Chemical Industry; Regional Plenipotentiary for Business Transport of the Reich Railway Management, Frankfurt; Member, Board of Trustees, Reich X-ray Agency of the Government Office for Testing of Materials, Berlin; and chairman and/or board member of numerous industrial firms, combines, and enterprises within Germany and the occupied countries.7

Hans Kuehne, Plant Leader\_of Leverkusen, 1933-1943, which produced inorganics, organic intermediates, buna, plastics, pharmaceuticals, insecticides, acetylcellulose, synthetic fibres. Member, Managing Board of Directors; Member, Technical Committee; Chief, Inorganic Committee; Chief, Works Combine Lower Rhine; Member, NSDAP; Member, German Labor Front; Member, Advisory Council and Industrial Department, Chamber of Economics, Duesseldorf; Member, Advisory Council, Chamber of Commerce, Munich-Gladbach; Member, District Labor Chamber, Essen; Man-ager, Ostmark Branch Office, Economic Group Metalware and Related Industrial Products; and chairman, deputy chairman, vice-chairman and/or board member of numerous industrial firms, combines, and enterprises within Germany and the occupied countries./

(q) Carl Lautenschlaeger, Plant Leader at Hoechst Plant, 1938-1945, which produced inorganics, solvents, organic intermediates, plastics, pharmaceuticals, compressed gases, welding and cutting equipment and oxygen. Member, Managing Board of Directors; Member, Technical Committee; Chief, Works Combine Main Valley; Member, NSDAP; Member, German Labor 13(9)(4) Front; Military Economy Leader; Member, Managing Board of Directors, Koch-Institut, Frankfurt; Member, Managing Board of Directors, Behring-Institut, Marburg; Member, Research Council, Kaiser Wilhelm Society for Psychiatry, Munich; and chairman, deputy chairman and/or board member of other industrial firms, combines, and enterprises within Germany

(r) 13 (4)(4)

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Wilhelm Mann, Member of the Managing Board of Directors. 🗲 Member, Commer-Cial Committee; Member, East Asia Committee; Chairman, East Committee; Member, Pharmaceutical Main Committee; Member, Pharmaceutical Scientific and Technical Central Committee; Chief, Sales Combine Pharmaceuticals and Plant Protective Agents; Member, NSDAP; Lieutenant, SA; Member, German Labor Front; Reich Economic\_Judge; Member, Greater Advisory Council, Reich-Group-Industry; Chairman, Colonial Economy Committee, Reich Group Industry; Member, Council for Propaganda



and the occupied countries 7

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of German Economy, Ministry of Propaganda; Member, Committee for General Affairs and Committee for Foreign Propaganda, Council for Propaganda of German Economy; Member, Advisory Council, Research Institute for Science of Propaganda, Berlin; Member, Permanent Advisory Council, Economy Office of the Reich Union of German Newspaper Publishers, Berlin; President, Society for Consumer Research, Berlin; Member, Institute for Economic Observation of German Finished Goods, Nuernberg; and chairman, deputy chairman and/or board member of other industrial firms, combines, enterprises within Germany, the occupied countries and elsewhere.

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(s) Heinrich Oster, Member of the Managing Board of Directors and Manager of the Nitrogen Syndicate.

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Member, East Asia Committee; Chief, Sales Organization Nitrogen and Oil; Member, NSDAP; Supporting member, SS-Reitersturm; Member, German Labor Front; Chief, Sub-department Nitrogen, Economic Group Chemical Industry; Member, Labor Chamber, Berlin-Brandenburg; Member, Sub-Committee Fertilizers and Explosives, Gau Berlin; Member, Main Committee Chemistry; Gau-Greater Berlin; and chairman, manager and/or board member of other industrial firms, combines, enterprises and banks within Germany, the occupied countries and elsewhere.

 (t) Karl Wurster, Plant Leader at Ludwigshafen-Oppau during World War II, and Technical Director of Ludwigshafen-Oppau, 1938-1945, which produced inorganics, organic intermediates, buna, plastics, solvents, synthetic rubber, tanning extracts, dyestuffs. detergent raw materials and ethylene oxide.
(4)

Member, Managing Board of Directors; Member, Technical Committee; Chief, Works Combine Upper Rhine; Member, Chemicals Committee; Chairman, Inorganic Committee; Member, NSDAP; Member, German Labor Front; Military Economy Leader; Holder of Knight's Cross of the War Merit Cross; Collaborator of Krauch in Four Year Plan, Office for German Raw Materials and Synthetics; Acting Vice-Chairman and member, Praesidium, Economic Group Chemical Industry; Chief, and Chairman, Technical Committee, Sub-Group for Sulphur and Sulphur Compounds, Economic Group Chemical Industry; Member, Advisory Council, and District Chairman, Saarpfalz, Economic Group Chemical Industry; Member, Advisory Council, Chamber of Economics Westmark, Saarbruecken; President, Chamber of Economics, Ludwigshafen; and chairman and/or board member of other industrial firms, combines, and enterprises within Germany, the occupied countries and elsewhere.

(u) Walter Duerfeld, Director and Construction Manager of the I G Farben Auschwitz Plant and the Monowitz Concentration Camp. Chief Engineer at the Leuna Plant;

Member, German Labor Front; Captain, NSFK; District Chairman, upper Silesia, Economic Group Chemical Industry.7

(v) Heinrich Approved for Release: 2022/06/22 C00010786

Council, Research Institute for Science of Propaganda, Berin; Member, Peanon institute for Science of Programd, Berlin, Member, Peanon Advisor Council Foromy Office of the Reich Unich Forogener Research, Berlin; Member, Institute for Economic Observation of German Finished Goods, Nuernberg; and chairman, deputy chairman and/or board member of other industrial firms, combines, enterprises within Germany, the occupied countries and elsewhere./

Heinrich Oster, Member of the Managing Board of Directors and Manager of the Nitrogen Syndicate. 113(9)(4) Member, Commercial Committee; Member, East Asia Committee; Chief, Sales Organization Nitro-gen and Oil; Member, NSDAP; Supporting member, SS-Reitersturm; Member, German Labor-Front; Chief, Sub-department Nitrogen; Economic Group Chemical Industry; Member, Labor Chamber, Berlin-Brandenburg; Member, Sub-Committee Fertilizers and Explosives, Gau Berlin; Member, Main Committee Chemistry; Gau Greater Berlin; and chairman, manager and/or board member of other industrial firms, combines, enterprises and banks within Germany, the occupied countries and elsewhere.

Karl Wurster, Plant Leader at Ludwigshafen-Oppau during World-(t) War II, and Technical Director of Ludwigshafen-Oppau, 1938-1945, which produced inorganics, organic intermediates, Duna, plastics, solvents, synthetic rubber, tanning extracts, dyestuffs. detergent raw materials and ethylene oxide. Member, Managing Directors; Member, Technical Committee; Chief, Works Combine Upper-Rhine; Member, Chemicals Committee; Chairman, Inorganic 1.3(2)(4) Committee; Member, NSDAP; Member, German Labor Front; Military Economy Leader; Holder of Knight's Cross of the War Merit Cross; Collaborator of Krauch in Four Year Plan, Office for-German Raw Materials and Synthetics; Acting Vice-Chairman and member, Praesidium, Economic Group Chemical Industry; Chief, and Chairman, Technical Committee, Sub-Group for Sulphur and Sulphur Compounds, Economic Group Chemical Industry; Member, Advisory Council, and District Chairman, Saarpfalz, Economic Group Chemical Industry; Member, Advisory Council, Chamber of Economics Westmark, Saarbruecken; President, Chamber of Economics, Ludwigshafen; and chairman and/or board member of other industrial firms, combines, and enterprises within Germany, the occupied countries and elsewhere.

Walter-Duerrfeld, Director and Construction Manager of the (u) I G Farben Auschwitz Plant and the Monowitz Concentration Camp. Chief Engineer at the Leuna Plant Member, NSDAP; 1.3 (2) (1)

Member, German Labor Front; Captain, NSFK; District Chairman, upper Silesia, Economic Group Chemical Industry./

Heinrich Gattineau. Member of the Southeast Europe Committee. (v) Director: Chief, Economic Policy Department; Deputy Liaison Officer of the I G Divisions for Austria; Member, NSDAP; Colonel, SA; Member, German Labor Front; Member, Council for Propaganda of German Economy, Ministry of Propaganda; Member, Committee for Southeast Europe, Economic Group Chemical Ladustry; and acting director, chairman and/or board member of other industrial firms, combines, and enterprises within Germany and the occupied countries.

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 (1) Chief, Liaison Office. Nitrozen and Gascline, Berlin NW 7; Member, Mpproved for Release: 2022/06/22 C00010786; and Member of Military Economics and Armament Office of OKW./
(x) Hans Kugler, Chief of Sales Department in Dyestuffs for Hungary, Rumania, Yugoslavia, Greece, Bulgaria, Turkey, Czechoslovakia and Austria.
(x) Hans Kugler, Chief of Sales Department in Dyestuffs for Hungary, Rumania, Yugoslavia, Greece, Bulgaria, Turkey, Czechoslovakia and Austria.
(x) Hans Kugler, Chief of Sales Department in Dyestuffs for Hungary, Rumania, Yugoslavia, Greece, Bulgaria, Turkey, Czechoslovakia and Austria.
(x) Director; Member, Commercial Committee; Second Vice-Chairman, Dyestuffs Committee; Member, Dyestuffs Steering Committee; Member, Dyestuffs Application Committee; Member, Southeast Europe Committee; Member, NSDAP; Member, German Labor Front; Deputy Chief, Sub-Group 16, Tar Dyes and Tar-Dye Intermediates, Economic Group Chemical Industry; Member, Advisory Council for Export Questions of the Supervisory Office Chemistry; and acting manager and/or board member of other incustrial firms, combines, and enterprises within Germany and the occupied countries.7

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CENTRAL INTELLIGENCE AGENCY

WASHINGTON 25, D. C.

### 12 April 1949

| MEMORANDUM FOR: | Director, Joint Intelligence Objectives Agency,<br>Joint Chiefs of Staff |
|-----------------|--|
| SUBJECT:        | Biographic Information Concerning German Specialists                     |

REFERENCE: Memo from Chief, Exploitation Division, JIOA, dated 6 Nar 49, JIOA No. 876.

1. Forwarded herewith in answer to your request contained in reference above, is a summary of the information on file in this Agency on the following German scientists.

| CHRISTOPH, Walter, Dr. NEUBERT, Heinz | ÷ |
|---------------------------------------|---|
| QUICK, August                         |   |
| MELKUS, Herald ZUSE, Konrad           |   |

2. A check of the files of this Agency revealed no information on the other individuals listed in your request.

5. A complete report on Dr. Erik Traub has been forwarded under separate cover.

4. It is sincerely hoped that this information will prove to be of value.

Chief. BR/CIA Deputy

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Encl: Summary of Info.

| FILE DIST:<br><u>CLA Es</u> cape Clause | Approved for Release |
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SUMMARY OF INFORMATION

CHRISTOPH, Dr. Walter

- A report of June 1948 indicates that at that time Christoph, a specialist in magnetic units, and a researcher on pressure units, was located in Leipzig and reportedly-was working on mines.

KOBER, Charles

Kober,-former chief of the development section of Gema, and a centimeter wave specialist, was last reported (Aug 47) as under contract to the French at St. Raphael Institute, Cote-d'Azur.

At Gema-Kober had worked in collaboration with Frofessors Aigner and Blenk on plans to install an electric steering control to correct all deviations of a V-2 projectile away from a high frequency beam. He designed a mechanism which would-use a-12-megawatt transmitter and which was considered interference-proof. In addition to his work on high frequency apparatus and V-2 steering devices, Koter did research on the utilization of shorter wave lengths and in the construction of trans-

MELKUS, Horald

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Melkus, an aerodynamics and statics specialist, and a former member of the Volkenrode project was last reported (Jan 47) as a consultant

NEUBERT, Heinz

Dr. Heinz Neubert was born 22 November 1906\_in Stetten, Germany, He was last reported (Oct 47) as professor of technical mechanics (Physics) at the Institute of Technology in Dresden.

QUICK, August\_(Wilhelm)

A former aerodynamics specialist at DVL in Berlin where he worked on piston engines\_for\_aircraft, August Quick was last reported (June 48), with Schneider=Creusat in France,

1.3(2)(3)(4)

- In-Oct 1947 he\_reportedly was with the Atalier Aeronautique Cestrich group in Decize, France and later moved to Paris.-

ZUSE, K.

The only information on file on K. Zuse indicates that in Feb 1948 he was interrogated concerning the Zuse Binary Computer, an extremely useful research machine for small sequence control, which he has invented.

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|  |  | <u>, and an </u>  | 128.B  | . <b>.</b> | TELLIGE                |                                  |                       |                  | rt ko 🕻            |                   |                        |
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### SOURCE

- 1. The present difficult financial situation of German scientists in the Western Zones is now causing them to be increasingly tempted by offers and invitations to work in the Russian Zone. This is especially true of those scientists in fields requiring academic or institutional backing who now find themselves unable to obtain university positions because of the small staffs with which the universities in Western Germany are operating. Even scientists with academic or government positions receive such low pay in the West that many who politically oppose Communism have been enticed into the Eastern Zone by the promise of four to five times the salary which they currently receive. Directors of research institutes in the Eastern Zones have recently been observed to be intensifying their attempts to exploit this situation and to procure the unused or underpaid talents of the Western Zones.
- At the recent Physics Congress in Bonn in the latter part of September, Professor Robert Romps, Director of the Physics Institute of the University of Berlin and Scientific Adviser to the government of the Russian Zone, approached former colleagues with offers of jobs in Leipzig and Dresden. Similarly, at the Congress of Minerelogists recently held in Freiburg 1. Dreisgau, Professor Leutwein of the Mining School at Freiberg in Sayony extended invitations to work with him and Professor Lange at Greiberg Min the field of uranium research. In the latter case it is known that the offers made amounted to 2,000 Fastern marks monthly and that the majority of persons contacted were earning no more than 200 D-marks monthly, most of them in jobs set up by the Baden government.

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Approved for Release NO4 1985 Date \_

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The present difficult financial situation of German scientists in the Western Zones is now causing them to be increasingly tempted by offers and invitations to work in the Russian Zone. This is especially true of those scientists in fields requiring academic or institutional backing who now find themselves unable to obtain university positions because of the small staffs with which the universities in Western Germany are operating. Even scientists with academic or government positions receive such low pay in the West that many who politically oppose Communism have been enticed into the Eastern Zone by the promise of four to five times the salary which they currently receive. Directors of research institutes in the Eastern Zones have recently been observed to be intensifying their attempts to exploit this situation and to procure the unused or underpaid talents of the Western Zones.

At the recent Physics Congress in Bonn in the latter part of September, Professor Robert Romps, Director of the Physics Institute of the University of Berlin and Scientific Advisor to the government of the Russian Zons, approached former colleagues with offers of jobs in Leipzig and Dresden. Similarly, at the Congress of Minerelogists recently held in Freiburg 1. Dreisgau, Professor Loutwein of the Mining School at Freiberg in Sexony extended invitations to work with him and Professor Lange at Freiberg in the field of uranium research. In the latter case it is known that the offers made amounted to 2,000 Eastern marks monthly and that the majority of persons contacted were earning no more than 200 D-marks monthly, most of them in jobs set up by the Baden government.



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| ·      | · ·  | JU: 11/10   |                                       |
|        | MEMORANDUM FOR:  |   |                                       |
|        | SUBJECT:   | Proposed Immigration of German Specialists  |                                       |
|        | conderning the<br>2. The f<br>concerning any<br>specialists men<br>Massmann's addre<br>and Hornauer's a<br>Ost. Patin was<br>U. S. Navy,<br>3. The all | iles reflect no derogatory information<br>individuals who can be identified with any of the<br>tioned in your memorandum.<br>ess was given as 28 Bayemring, Berlin/Tempelhof<br>as 40 Schuette-Lanzstrasse, Berlin/Lichterfelde-<br>maid to have been taken to the United States by the<br>bove constitute all the data available on any<br>als in reference request. |                                       |
|        |  | FOR THE DIRECTOR OF CENTRAL INTELLIGENCE  |                                       |
|        |  | Assistant Director  | · · · · · · · · · · · · · · · · · · · |
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|        | Richard Q<br>CAPT, USAF  | Approved for Release<br>Date  |                                       |
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CENTRAL INTELLIGENCE AGENCY WASHINGTON 25, D. C.

19 April 1950

MEMORANDUM FOR: COLONEL DANIEL E. ELLIS, DIRECTOR 1.3 (a)(4) JOINT INTELLIGENCE OBJECTIVES AGENCY JOINT CHIEFS OF STAFF Case of Richard Theodor Otto SCHERIAG SUBJECT: 1. This will acknowledge receipt of your memorandum dated 13 April 1950, (JIOA 929) regarding the above subject, and requesting information which might effect a decision in the case. 2. This is to advise that at the present time there is no information available in this Agency on subject which would effoct the decision involved. THE DIST: Jim Denial SOUERNAG, Richard Theodor-Otto-Approved for Release Date 2 NOV 1985 302



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CENTRAL INTELLIGENCE AGENCY WASHINGTON 25, D. C.

### JAN 4 1950

MEMORANDUM FOR THE JOINT CHIFFS OF STAFF

ATTENTION: Director, Joint Intelligence Objectives Agency

SUBJECT: Case of Colonel F. K. DUDZINSKI (File: JIOA 4416)

1. Returned herewith are papers concerning the above subject which were forwarded to this Agency by your memorandum, dated 8 December 1949. The case has been circulated within this Agency and has been subjected to extensive scrutiny. However, we find that at the present time we have no interest in the case.

2.

5. We regret the length of time necessary to screen this case, but we felt it was desirable to give it most careful scrutiny.

FOR THE DIRECTOR OF CENTRAL INTELLIGENCE:

C. L. WINECOFF

Captain, USN // Executive

Enol: Ltr ref above, w/

FILE DIST: <u>CIA-MIB</u>C. DUDZ INSKI, Col. F.-K.

Approved for Release



# 241850

### CIA BIOGRAPHIC REGISTER

| Name: WIRTZ, Dr. Karl<br>Variant:                    | <u>Case No.</u> 8061649<br>Date: 11 August 1948                               |
|--|---|
| Present Position: Section Leader, KWIP,<br>Göttingen | Birthdate: 1910, 24 April<br>Birthplace:                                      |
| Location: Göttingen, Germany                         | Nationality: German   |
| Gen. Occupation: Physicist                           | Race: White   |
| Education: Ph.D.                                     | <u>Sex:</u> Wale<br><u>Marital Status</u> : Married<br><u>Name of Spouse:</u> |
| Languages:   | Children:   |
| Honors:  |   |
| Publications:  | Religion:   |
| · · ·  | Political-Affiliation: - (See below)  |

Br. Karl Wirtz, German theoretical and experimental physicist, is presently (August 1948) a member of a group of nuclear physicists working at the University of Göttingen under the program for the control of scientific research, which is being administered by the Control Commission in Germany. 1/

Based on a survey of his prewar work only, Wirtz had been rated by U.S. sources at the beginning of the war as close to the top in his field, 2/ and since that time has been judged as one of the top German physicists both by our own scientists 3/ 4/ and by Werner Heisenberg, foremost German physicist. 5/

An experimental specialist, Wirtz did research on the application of the "separation tube" isotope separation method to liquids, and on neutron diffusion at the Kaiser Wilhelm Institute for Physics at Berlin-Dahlem in the early days of the war 6/ and in a 1942 conference spoke on the production of heavy water. 7/ In September 1943 he was at Hechingen (Hohenzollern) where he worked on pile development under Heisenberg. 7/

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WIRTZ, Dr. Karl contd.

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# ide. 10/

During the 1947-1948 winter semester at the University of Göttingen, Wirtz lectured on "Introduction to the Theory of Chemical Compounds" in the Theoretical and Experimental Physics Department. 13/

In addition to contributing to the FIAT Review of German Science, 1939 - 46, Wirtz is the author of many works, some of which are listed below:

> "Hydrogen Bond Structure & Energy Transference with Proteins" "German Preparation for Construction of a Uranium Pile" read at the 5 - 7 September 1947 meeting of the German Physical Society in Göttingen.

"Theory of Liquid Thermal Diffusion" 1939, 1940, 1941, 1943. "Separation of Hydrogen Isotopes" 1939 in collaboration with Korsching.

"Separation of Liquid Mixtures"

"Thermal Diffusion in Crystal Lattices"

"Kinetic Theory of Liquid Thermal Diffusion" in collaboration with Hiby

\*Report on the 1st Experiments on the Apparatus Set Up at the KWI for Physics. 1940, in collaboration with others.

\*Report on the Experiments with Layer Arrangements of Uranium & Paraffin at the KWI for Physics, Berlin-Dahlem. 1941, in collaboration with others.

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### WIRTZ, Dr. Karl (Contd)

| *          | <ul> <li>*Preliminary Report on the Results from a Layer-construction Sphere<br/>of Uranium Metal and Paraffin.* 1942; in collaboration with others.</li> <li>*Measurements of Layer Arrangements of Uranium Metal and Paraffin*<br/>1942 in collaboration with others.</li> <li>*Tests with New Layer Arrangements of Uranium Metal and Paraffin*</li> </ul> |
|------------|---|
|            | in collaboration with others.<br>"Corresion in the Uranium Heavy Water Pile & Its Prevention", in<br>collaboration with W. Borchardt & W. Ramm.   |
|            | Bericht II. A 10-Step Electrolysis Plant for Producing Heavy<br>Water. 1940.  |
|            | Report III. Investigation of the Heavy Water Content of a Few   |
|            | Electrolyzers in Germany. 1940.   |
|            | Theoretical Considerations for the Production of Heavy Water by   |
|            | Electrolysis. 1940.<br>Water Tests from the Water Cas Process (for the deuterium content).  |
|            | 1942  |
| · •.       | Specific Gravity_and Concentration of Heavy Water. 1942.  |
|            | Report on Visit_to Rjukan from 13-15 Nov 42.  |
|            | The Remarkable Comparison of the Mol Volume and Other Properties of<br>Light & Heavy Water. 1944.   |
|            | Slowing Down of Re-Be Neutrons in Heavy Water. 1944.  |
|            | Klectrolysis Equipment for Producing Heavy Water. 1944.   |
|            | Experiment with 1,5 tons D <sub>2</sub> O and U and a 40 cm Carbon Reflector. 1945.   |
|            | Slowing Down of Neutron in Graphite. 1945.  |
|            |   |
| TAC        | Agency, Washington, D.C., 2 August 1948   |
| TVC<br>TVC | W W Undated   |
| N          | n 21 February 1945  |
| 8          | a 22 June 1946  |
| Ħ          | n 7 Sept 1945   |
| 8          | * 22 July 1946  |
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### CIA BIOGRAPHIC REGISTER

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|--------|------|------------|-----|-------|
| Name:  | BAC  | ЭGE,       | Dr. | Erich |
| 17 and | inni | - <b>-</b> |     |       |

Variant:

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- Private: Bunsenstrasse, 16, Gottingen

Education:

Languages:

Honors:

Publications:

24185

Case No. 8030628 Date: 24 August 1948

Birthdate: 1912 Present Position: Member Max Planck Institute ·Birthplace: AVA Göttingen Location: - Business: Max Planck Institute Nationality: German Gen. Occupation: Experimental physicist White Race: Male Sex:

Marital Status: Married

Name of Spouse:

Children:

Religion:

Political Affiliation: Nazi Party Member

Dr. Erich Bagge, German experimental physicist, is presently a member of a group of muclear physicists working at the University of Göttingen under the program for the control of scientific research which is being administered by the Control Commission in Germany. 1

Described as fairly young and reasonably competent, 2/ Bagge is mainly an experimentalist and does very little theory. 4/ He did considerable work on isotope separation at Leipzig University in 1940 and later, in collaboration with Martin and Hoyer, wrote one of the Secret Muclear Physics Reports for the "Reichsforschungsrat" (German National Research Council.) In 1944 at the Kaiser Wilhelm Institute for Physics in Berlin he worked on deuterium cross sections and later went to Hechingen where he worked on normal nuclear physics reactions and attempted to develop isotope separation methods. He is credited with the invention of the isotope lock. # 3/ Recently (December 1947) Bagge has been reported as the plodding type, a competent experimenter and routine theoretician but of no particular value to the U.S., the U.K., or other nations. 9

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# PUBLICATIONS OF FRICH RACCE

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# CIA BIOGRAPHIC REGISTER

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| D  | nstitu  | te for P                                    | wsics, He   | , Kaiser Wi<br>chingen (Fr  | lhelm<br>ench zone)  | <u>Birthdat</u><br>Birthpla                                   | <u>8</u> :<br>ce:                         | 3 July                  | 7 1910   |                         |      |
|  |   | Hechin                                      | en<br>Physicist   |   |  | National  |   |                         |  |                         |      |
| Edu  | cation  | : Ph.D                                      |   |   |  | Race:<br>Sex:<br>Marital (                                    |   | White<br>Male           |  |                         | <br> |
| Lang   | zuagas  | :   |   |   |  | Name of ;   |   |                         | e e inveren                                      |                         |      |
| Hono   | <u>)73:</u>   |   |   |   |  | <u>Children</u>   | <b>t</b>                                  | nga nga na              |  | At the second second    |      |
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### CIA BIOGRAPHIC REGISTER

| Name: STRASSMAN, Dr. Fritz<br>Variant:                            |                                       | <u>Case No.</u> 8061554<br><u>Date: 25 August 1948</u> | - |
|---|---------------------------------------|--|---|
| Present Position: Research, Chemi<br>Institute, Wilhelm Gutenberg | ical <u>Birthdate:</u><br>Birthplace: | 22 February 1902<br>Boppard-Rhein                      |   |
| University, Mainz.<br>Location: Mainz                             | Nationality:                          | German   |   |
| Gen. Occupation: Nuclear Chemist                                  | <u>Race;</u><br>Sex;                  | White<br>Vale  |   |
| Education: Ph.D.  | Marital Status:<br>Name of Spouse:    |  |   |
| Languages:  | Children:                             |  |   |
| Honors:   | Religion:                             |  |   |
| Publications:   | Political Affil                       | iation: (See below)                                    |   |

Dr. Fritz Strassman, well-known German nuclear chemist, 1/is presently Acting Director, in the absence of Dr. Josef Mattauch, of the Kaiser Wilhelm Institute for Chemistry at Mainz University 2/ in the French sone. 3/

Scientifically, Strassman has been very well-known, especially for his work in collaboration with Dr. Otto Hahn as co-discoverer of uranium fission. 1/ Based on a survey of his prewar work only, he was rated by U.S. sources at the beginning of the war at the very top in his field. 4/ U.S. sources at the beginning of the war at the very top in his field. 4/ a further indication of Strassman's importance is shown in a report that a further indication of Strassman's importance is shown in a report that stated in 1943 a meeting was called by Mr. Speer, German Minister of Armastated in 1943 a meeting was called by Mr. Speer, German Minister of Armastated in 1943 a meeting to discuss the problem of nuclear physics and ments and War Production, to discuss the problem of nuclear physics and Strassman was one of the scientists invited to attend. 5/ The German press stated in 1943 that Dr. Strassman had collaborated with Dr. Hahn on press stated in 1943 that Dr. Strassman had collaborated with Dr. Hahn on additional articles on the further breaking down of uranium 6/ and it was additional articles on the further breaking down of uranium for an it was also reported that he had worked with Maurer during the war years on the disintegration of molybdenum and uranium. 1/

Politically, Strassman has never been reported as a member of the Nazi Party,

Following the German defeat Strassman was at the KWIC at Tailfingen where it was reported that, in collaboration with Dr. Mattauch, he was

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#### STRASSMAN. Dr. Fritz

directing the continuation of the work of Hahn and Heisenberg. <u>8/</u> Later Prof. Strassman was given the Chair of Chemistry at the University of Mainz 8/ and the KWIC was slated to be moved there in the spring of 1948. <u>2/</u>

As Otto Hahn's right-hand man in his best experimental period at Berlin, Dahlem and with his subsequent experimental background 2/ Strassman has recently (Sept. 1947) been rated as a potentially valuable man 2/ and reportedly would fit well into any team engaged in radio chemistry research in the United Kingdom, the United States or elsewhere. 2/

| <u></u> | IAC  | Agency,-T | ashingto | n, D.C. undated. |
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| 2/      | ĸ    | ġ         | — n —    | n 5 Aug 47.      |
| 3/      | - 19 | •         | <b>n</b> | # 19 Dec 47.     |
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| 5/      | M    | Ħ         | Ħ        | # 19 Aug 45.     |
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| Ŋ       | H    | <b>T</b>  |          | n 3 Jul 47.      |
| 8/      |      | ,<br>,    | <u> </u> | n 17 Feb 48.     |
| 2/      | Ħ    | ġ.        |          | N 24 Sep 47      |

Publications by Fritz STRASSMANN

"Disintegration of U by Slow Neutrons" in collaboration with Meitner & Hahn \* "Trans-Uranium Series" in collaboration with Meitner & Hahn \* "The Question of the Origin of the 2.3 day Isotope of Element 93 from Uranium" 1942 in collaboration with Hahn "The Experimental Work on the Sepn. of Ur. Fission Products." 1942, in collaboration with Hahn, Gotte. "Chemical Sepn. of Ur. Fission Products" in collaboration with Hahn, 1944 "Chemical Spen. of Ur. Fission Products II." 1944 "R-Active Strontium Yttrium Isotopes Resulting from U Fission"1943, in collaboration with Otto Hahn "On the behaviour of the alkaline earth isotopes produced by the bombardment of uranium with neutrons" in collaboration with Hahn, 1939. "Production of active Barium-Isotopes fr Uranium & thorium by neutron bombardment; production of further radioactive fragments by fission of U# in collaboration with Hahn, 1939. "Do 'Trans-uranium elements' exist? 1) Final proof of the non-existence of "Ekaplatinum" and "Eka-iridium" in collaboration with Hahn, 1939 "On the fragments of uranium fission" in collaboration with Hahn, 1939. "Further fission products if the bombardment of U w/neutrons" in collaboration with Hahn, 1939. "On the fission of uranium mucleus by slow neutrons" in collaboration with Hahn, 1939 "Separation of isotopes of Krypton fr those of Xenon produced by U fission" in collaboration with Hahn, 1940. "Preparation of fission products of uranium by the use of 'emanating power' of uranium compounds" in collaboration with Hahn, 1940 "Preparation of fission products of Thorium by the use of the !emanating power! of thorium hydroxide" in collaboration with Hahn, 1940 "On the experimental disentanglement of elements and isotopes produced by the fission of U" in collaboration with Hahn and Götte, 1942. "On short-lived isotopes of Barium and Lanthanum produced by Uranium fission" in collaboration with Hahn, 1942. "On some fragments of the fission of Thorium" in collaboration with Hahn & Flagge, 1939 "On the fission of the nuclei of uranium and thorium into lighter atoms" in collaboration with Hahn, 1939 "On some further products of uranium fission" in collaboration with Hahn, 1940 "Some new fission products of uranium" in collaboration with Hahn, 1943 "Short-lived isotopes of Bromine and Iodine produced by uranium fission" in collaboration with Hahn, 1940 "On the production of Zirconium and Protectinium produced by the bombardment of Thorium with neutrons" in collaboration with Hahn, 1941 "On the isotopes of Molybdenum produced by uranium fission" in collaboration with Hahn, 1941 Ħ H H "The isolation and some of the properties of element 93" in collaboration with Hahn, 1942 "Did a radioactive Caesium isotope exist in former geological periods? Barium and Strontium fr Pollucites in collaboration with Hahn, J. Mattauch & Ewald, 1942 \*. These publications preceded the discovery of fission 88202-1372

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# Publications by Fritz Strassman, contd

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"Did a Caesium isotope of long half-life exist? A contribution to the interpretation of unusual lines in mass-spectroscopy?" in collaboration with Hahn,

Wattauch & Ewald, 1943.
"Determinations of geological age by the stontium method" 1942 (According to investigations by O. Hahn, F. Strassmann, J. Wattauch & H. Ewald)
"On the fission of heavy nuclei" 1941
"The completion & extension of the Periodic System" 1941
"R-Active Strontium Yttrium Isotopes Resulting from U Fission," 1943



# 241850

CIA BIOGRAPHIC REGISTER

| Present Position: Physicist, Haas & Cie        | Birthdate:   | 13 May 1905      |
|--|--------------|------------------|
| resent rostelon; ingstelot; need a te          | Birthplace:  |                  |
| Location: Business - Haupstrasse 66            | :            |                  |
| Hamburg-Blankenese                             | -Mationality | : Cerman         |
| Private - West End 5 Hamburg                   | Race:        | White            |
| Grossflottbek                                  | Sex:         | Vale             |
| 0103311000000                                  | Marital Sta  | tus: Married     |
| Gen. Occupation: Physicist                     | Name of Spo  |                  |
| Education: Degree in Physics, Halle University | Children:    |                  |
| Languages:                                     | Religion:    |                  |
| lananga  | Political A  | ffiliation: Nazi |
| Honors:  | Party Men    | ber              |
| Publications:                                  |              |                  |
|  |              |                  |
| Dr. Kurt Diebner, wartime Deputy Director u    | ndan Ganlach | of the German    |

Originally a student under Hoffman at Halle University, he later did research on neutron physics at Charlottenburg Technisches Hochschule. 1/ From the very beginning of the war Diebner was associated both administratively and scientifically with the German nuclear physics research project. 1/ When the war broke out and the Army Ordnance Department was responsible for some financial and administrative control of nuclear physics research, Diebner was made a consultant to Schumann who was head of the Army Research Group (WaF). Later in 1942 when there was a reorganization placing responsibility under Essu of the RFR (Reichsforschungsrat-National Research Council), the Army managed to keep partial control and started a research group under Diebner's direction to work on pile experiments. When a further reorganization was made in 1943 placing Goering in overall charge, Essu was made deputy for the nuclear physics field and Diebner went with Esau. Finally in 1944, when Gerlach succeeded Esau as head of the RFR, Diebner became Gerlach's Deputy. 3/

In addition to these administrative positions Diebner was also an experimenter working on a team with Pose and Czulius. This team, more or less a Nazi Party sponsored group, ran somewhat in competition with Heisenberg's KWI group 1/ and from 1942 until the closing days of the war Diebner directed the pile experiments at Gottow. 2/ After the fall of Paris in 1940 Diebner interrogated Joliot in his laboratory regarding his work on uranium and he was also present at a meeting in Berlin in January 1942 to plan increased heavy water production at Norsk Hydro. 1 Approved for Release

NOV Date 7\_





### DIEBNER, Dr. Kurt

Diebner was picked up by US forces in the closing days of the war and shortly after V-E day was sent to England with other German personnel.4/At that time he was described as outwardly friendly but an unpleasant personality and could not be trusted. 5/

Politically Diebner was a member of the Nazi Party. 1/ He claimed he only stayed in the Party as, if Germany had won the war, only Party members would be given good jobs. 6/ In 1945 he reportedly intended to send in a formal request that he be reinstated as a civil servant and hoped the fact that he was a member of the Party would be forgotten. 6/ Reportedly antidemocratic, 9/ Diebner also evidenced an interest in 1945 in the possibility of going to the Argentine to work with uranium and also considered the possibility of contacting some of his former colleagues who were working for the Russians. 7/

Scientifically, Diebner was recommended by Gerlach for a War Service decoration because of his work on pile arrangement and was given a very high rating by U.S. sources in the closing days of the war. This rating, however, was made as an intelligent target for his overall knowledge of the German nuclear energy project rather than for scientific preeminence. <u>8</u>/<u>Since that</u> time he has been described as a fourth-rate physicist who appeared as good second-rate while in wartime company. <u>2</u>/<u>Repeatedly reported as of no value</u> scientifically, <u>2</u>/, <u>9</u>/, his present activities are stated to be harmless. <u>2</u>/<u>I</u> It has been recommended that he not be permitted to come to the U.S. in any case. <u>1</u>/

|    |            | <b>*</b> | <b>H</b> | 19 Dec 47  |
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| n  | n          | n        | M        | 24 Feb 47  |

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# PUBLICATIONS OF KURT DIEENER

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- 4.

| "Artificia<br>Grassman             | 1 Radioactivity", 1936 - 1940 in collaboration with<br>n  |
|------------------------------------|---|
| <b>"Scatterin</b>                  | g of Alpha Particles by H-Nuclei", 1934   |
| *Ionizing                          | Power of Artificial H-Rays", 1932   |
| "Resonance<br>1932                 | Fenetration of Alpha Particles into the Aluminum Nucleus",  |
| Reports w<br>G-1, G-2              | th collaborators on Gottow Experiments, Ur,Ox & Paraffin<br>, G-3, <u>unpublished</u> 1942 & 1943.  |
| Reports o                          | n U-Metal Cube Heavy Ice Experiments  |
| Coll shor                          | Cube Experiments with U.C. & Paraffin at Gottow, in<br>ation with Berkei, Czulids, Hartwig, Hermann, Bormann,<br>Pose, Rexer, 26 Nov. 42.           |
| * Progress<br>in colle<br>Böcker.  | Report on Experiments with Cubes & Heavy Ice, April 1943,<br>aboration with Hartwig, Hermann, Westmeyer, Czulius, Berkei,                           |
| * Report or<br>collabor<br>Hacker. | Experiments with Uranium Metal & Heavy Ice, July 1943, in<br>ration with Hartwig, Hersann, Westmeyer, Czulius, Berkei,                              |
| Noavy W                            | n Neutron Increase of an Arrangement of Uranium Cubes &<br>ater, Dec. 1945, in collaboration with Hartwig, Hermann,<br>er, Ciulius, Berkei, Höcker. |

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# 24 053

CIA BIOGRAPHIC REGISTER

| <u>Name</u> : WEIZSÄCKER, Prof. Dr. Carl Friedrich<br>Freiherr (Baron) von<br><u>Variant:</u> WEISSAECKER, Karl Freidrich von  |   | <u>No.</u> 8010581<br>2: 13 September 1948  |
|--|---|---|
|  | Birthdate:<br>Birthplace:   | 23 June 1912<br>Kiel  |
| Location: BusinessMax Planck Institute,<br>AVA, Göttingen<br>Private - Bunsenstrasse 16, Göttingen   | Nationality:<br>Race:   | German<br>White<br>Male   |
| Phone - 3653<br>Gen. Occupation: Physicist   | Marital Status:<br>Name of Spouse:  | Married<br>(Swiss wife)<br>(née Wille)  |
| Education: Ph.D., University of Leipzig, 1933  | Children:   |   |
| Languages:   | Religion:   | Protestant  |
| Honors:  | Political Affili  | ation: (See below)  |
| <ul> <li>Lecturer, University of Berlin</li> <li>1936 - 1939 Research physicist, Kaiser Wilhelm I<br/>Berlin-Dahlem</li> <li>War work" at KWIP, Berlin-Dahlem aft</li> <li>1941 - Wrote report on America's advantage<br/>nuclear physics (September).</li> <li>1942 - Prof. of Theoretical Physics, Strasb</li> <li>1943 - Director of Institute for Theoretica</li> <li>1944 - Research on "war work."</li> <li>1946 - date Research, Max Planck Institute.</li> <li>Prof. Dr. Carl Friedrich Freiherr von Weizsäcke</li> <li>1/ was reported in December 1947 as a member of a<br/>working at the University of Göttingen on the prog<br/>ducted under the authority of the Allied Control C<br/>more recent report indicates that he was in Switze<br/>attempting to get the Chair at the University of 2<br/>Gregor Wentzel. 3/ Von Weizsäcker is well known<br/>was once Ambassador to that country, 4/ and his re-<br/>have been handled through his father-in-law, Gen.</li> </ul> | er one month in A<br>over Germany in t<br>ourg (Cctober)<br>1 Physics, Strast<br>r, well known Ger<br>group of nuclear<br>ram of scientific<br>ommission in Germ<br>rland in January<br>urich occupied at<br>in Switzerland as<br>cent efforts to 1 | man physicist,<br>physicists<br>research con-<br>uany. 2/ A<br>of this year<br>that time by<br>his father |
|  | Approved fo<br>Date   | or Release<br>NOV 1985  |
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### WEIZSACKER, Prof. Dr. Carl

Son of the last German Ambassador to the Vatican, Von Weizsacker comes from an aristocratic and cultured German-family-with wide connections. 4/ His studies took place in the Hague, Basel, Copenhagen, Berlin, Stuttgart, and Leipzig where he was awarded his Ph.D. in 1933. 5/ Captured German documents reveal that he was granted the final "Habilitation" degree in theoretical physics by the University of Heidelberg in 1936, after having made outstanding original contributions in that field while still a student. From 1936 he was employed as an assistant at the Kaiser Wilhelm Institute for Physics at Berlin-Dahlem and in 1937 had, in addition, an appointment as Dozent at the University of Berlin. On 29 August 1939 he was called to active duty in the Wehrmacht but was released and recalled to the Kaiser Wilhelm Institute one month later on the ground that his services were required for "scientific work of military importance." According to these German documents Von Weizsäcker was occupied largely with the normal activities of a university professor while at the Kaiser Wilhelm Institute and the University of Berlin. These include the writing of several scientific and philosophical papers for publication and visits to various universities and research centers to take part in discussions. and to give lectures. After 1938 his scientific interests seem to have shifted from the active problems of theoretical physics to matters of a more philosophical and speculative nature and several of his published articles are along that line. 4/

Prewar acquaintances described Von Weizsäcker as an intelligent "dilettante," not especially energetic and rather easy going. Often arriving at work between ten and eleven and usually meeting friends for lunch, it was not unusual for him to carry on discussions with his associates far into the night. Among his cultural interests, literature took precedence and to a slightly lesser degree, philosophy. He was also interested in youth movements and spiritualism before the war. Referred to as the "Bohemian" type, Von Weizsäcker was a great lover of music, drank beer and wine and reportedly could be induced to drink anything else as well. 13/

From 1939 to 1941 Von Weizsäcker made several trips to Switzerland and two to Denmark where he gave two-lectures in Copenhagen. He was appointed Professor of Theoretical Physics at the University of Strasbourg in 1942 but continued his connections at the Kaiser Wilhelm Institute for Physics in Berlin-Dahlem. He came to be increasingly in demand as a lecturer on scientificphilosophical subjects and his lecture activities were put under the supervision of the Minister for Science, Education and Training. His mission was to combat the general impression that German science was in decline. These culture-disseminating and goodwill-building activities extended first to people reached through industrial and educational organizations in Germany and later to foreign countries under German influence. In addition to many universities and academies of

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### MEIZSACKER, Prof. Dr. Carl

science in Germany itself Von Weizsacker, under the sponsorship of the German Research Foundation, Foreign Division, lectured in Paris, Riga, Rome, Rouen, Madrid, Lisbon, Helsinki, Vienna, Sofia, Bucharest, Debrecen (Hungary). 4/

Von Weizsacker's lectures, however, did not take up all his time and he did considerable research on uranium theory in the summer of 1940. In September 1941 he found time to write a report to Reichsminister Rust of the German National Ministry for Science, Education and Training, on America's advantage over Germany in the field of nuclear physics. In October 1942 as Professor of Theoretical Physics at the University of Strasbourg and later in January 1943 as Director of the Institute of Theoretical Physics there, he gave courses in Philosophy, Mechanics and Physics. In 1944 he published a book on theoretical physics and was considered for the Directorship of the Bohr Institute in Copenhagen but reportedly did not want the job. Associated with matters related to uranium fission from the very beginning of the war in Germany, Von Weizsacker frequently visited Hechingen where pile experiments were conducted by the Kaiser Wilhelm Institute for Physics, partially evacuated from Berlin. He moved there in September 1944 with apparatus and equipment. 1/

Picked up by US forces in the closing days of the war, Von Weizsäcker was sent to England with other German personnel shortly after V-E day.6/ At this time he was described as outwardly very friendly and genuinely cooperative. The son of a diplomat, he showed he was somewhat of a one himself. 7/ He was outspokenly opposed to the idea of working for the Allies either in Germany or elsewhere but indicated also that he had no intention of working for the Russians. 8/

Based on a survey of his prewar work only Von Weizsäcker was rated by US sources at the beginning of the war at the very top in his field. 9/ Other reports have described him as a brilliant scholar, 5/ a valuable man, 11/ with a very high rating as a physicist and astro-physicist 1/ and one of Germany's best theoretical physicists. 10/ More recently it has been stated that Von Weizsäcker is a fitfully brilliant scientist, the level of whose work is usually dependent on his associates and environment. This same report states that he could be of value to the US or the United Kingdom but would be of little value to other nations in view of his temperament. 12/

Politically, only one report has stated that Von Weizsäcker was a Nezi, 3/ and while his background was sensitive in that his father was last Ambassador to the Vatican and for years Under Secretary in the Foreign Office, 13/ other reports have described him as either politically indifferent, 11/ sincerely opposed to the Nazi regime, 5/7/ or not a Nazi, but considered somewhat of an opportunist. 1/

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WEIZSÄCKER, Prof. Dr. Carl

Rated high as an astro-physicist, 1/ Von <u>Weizsäcker</u> was reported in December 1947 as interested in the problems of cosmology and lectured during the winter semester at the University of Göttingen on the "Quantum Theory of Electrons and Light." <u>14</u>/\_\_\_\_\_

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| 14/            | ' Ph | ysikalis | che Blatte | r, # 10, 1947                                       |

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- Ι. Books
  - 1. Die Atomkerne, A.V.G. 1937
  - 2. Zum Weltbild der Physik 1944
  - 3. Book ontheoretical physics, Jan. 1944

#### Original Works

- Crtsbestimming Eines Elektrons durch ein Eikroskop, 1931 1.
- Grenzfragen der Philosophie und modernen Physik, 1932 2.
- Durchgang schneller Korpuskulars-Trohlen-durch ein Ferromognetikum, 1933 3.
- Ausstrahlung bei Stossen sehr schneller Elektronen, 1934 4.
- Moore, Isaac Newton, 1935 5.
- Zur Theorie der Kernmassen, 1935 6.
- Thomson, Atomie Physics, 1929, 1935 7.
- Die dur den Bau der Atomkerne massgebenden Kräfte, 1935 8.
- Sir Isaac Newton's Mathematical Prinziples, 1936 9.
- Uber Elementumwandlungen im Innern der Sterne F, 1936 10.
- Metastabile Zustände der Atomkerne, 1936 11.

Uber die Spinabhängigkeit der Kernkräfte, 1936 12.

- Fortschritte in der Theorie des Atomkerns, 1936 13.
- 14. Uber-die Moglichkeit eines dualen

15. Neuere modellvorstellungen über den Bau der Atomkerne, 1938

- 16. Uber Elementarumwardlungen im Innern der Sterne, 1938
- 17. Methode der Physik, 1939
- Der zweite Hauptsatz und der Unterschied von Vergangenheit und 18. Zukun 1, 1939
- Zum Wefelmeierschen Modell der Transurance, 1939 19.
- Die Physik der Gogenwart und das Physikalische Weltbild, 1942 20.
- Die Moderne Atomlehre und die Philosophie, 1942 21.
- Die Atomlehre der modernen Physik, 1942 22.

Zur Deutung der Quantemmechanik 1941 u 23.

- Die Auswirkung des Satzes von der Erhaltung der Energie in der Physik 24.
- Deutung einer Auswahlregel für Neutronen und Protonen-emission 25. aus Kernen ungerader Ladung, 1943
  - Uber die Entstehung des Planetensystems, 1944
- 26. Report on the Experiments with Layer Arrangements of Uranium and 27.
- Paraffin at the KWI for Physics, Berlin-Dahlem, 1941, in collaboration with others.
- 28. "Preliminary Report on the Results from a Layer-construction Sphereof Uranium Metal and Paraffin." 1942, in collaboration with others.

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29. "Measurements of Layer Arrangements of Uranium Metal and Pareffin," in collaboration with others, 1942

# Publications of Weizsacker (contd)

|   |     | interest Uncointer Metal and Paraffin,"  |               |
|---|-----|--|---------------|
| × | 30. | "Tests with New Layer Arrangements of Uranium Metal and Paraffin,"   |               |
|   | -   | in collaboration with others.<br>The Production of Neutrons in Heavy Water by the Process D  |               |
|   | 31. | The Production of Neutrons in neavy matter by  |               |
|   |     | (n, 2n) H., 1940   |               |
|   | 32. | The Disintegration of Deuterons, 1940.<br>The Disintegration of Obtaining Energy from U-238, 1940<br>The Possibility of Obtaining Energy in the U Machine, in collabora- |               |
|   | 33. | The Possibility of Obtaining Energy from the U Machine, in collabora-<br>Calculation of the Energy Production in the U Machine, in collabora-                            | ·             |
|   | 34. | Calculation of the Energy Flodevice 21 one   |               |
|   |     | tion with Muller, Hocker, 1940   |               |
|   | 35. | Temperature Effect of Layer Type Pile, 1941<br>Remarks on the Calculation of Layer Arrangement, 1941   |               |
|   | 36. | Remarks on the Calculation of Layer Allargements, 1942   | ····· ; ····· |
|   | 37. |  |               |
|   | 38. | B Decay of Potassium, before 1939<br>Nuclear Transformation in the Interior of Stars, before 1939<br>Nuclear Transformation in the Interior Emission from Nuclei of Odd  |               |
|   | 39. | Nuclear Transformation in the Interior Officially Muclei of Odd<br>Selection Rule for Neutron & Proton Emission from Muclei of Odd                                       | · · · · · ·   |
|   | 40. | Selection Rule for Neutron & Floton Land   |               |
|   |     | Charge, 1943   |               |
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# 241850

### CIA BIOGRAPHIC REGISTER

| Variant:  | the President Kaiser Wilhelm  | Birthdate:  | 8 Mar 1879   |
|---|---|---|--|
|   | ition: President, Kaiser Wilhelm<br>Gesellschaft  | Birthplace: Fran  | kfurt/Main   |
|   | asiness - Max Planck Institute<br>AVA, Göttingen  | Nationality: Ge   | r1180  |
| Private -   | Herebergerlandstrasse 44, Gottingen   | Race:   | White  |
| Gen. Occupat  | tion: Nuclear chemist (Tel:2878)  | Sex:  | Male   |
| Education: 1  | Ph.D. 1901  | Marital Status:<br>Name of Spouse:  | Married (1913)<br>Edith Funghams   |
| Languages: 1  | English, fluent   | Children:   | One son  |
| Honors. Nob   | el Prize in Chemistry, 1944   |   | washing a state of the state of |
| honors: Noo   |   | Religion:   | Protestant   |
|   |   | Political Affil:  | iation:<br>(See below)   |
|   | Career  | · · · · · · · · · · · · · · · · · · ·   |  |
|   |   | (uni oh   |  |
| 1902 - 04   | Assistant Professor, University of M<br>Member, Ramsay Laboratory, Universit  | IV COLLEGE, DOMAVH  |  |
| 1904 - 05   | Manham Tand Butherford LADORALOFV.  | MOGITI OUTAGISTAN   |  |
| 1905 - 06   | Kaiser Wilhelm-Institute for Chemist  | try. Berlin-Dahlem  |  |
| 1906 -  | Private Dozent, University of Berlin  | n: ····   |  |
|   |   |   |  |
| 1907 -  | Teoloted mesothorium 1  |   |  |
| 1707 -  | Isolated mesothorium 1  |   |  |
|   | Isolated mesothorium 1  |   | tinium   |
| 1908 - 38   | Isolated mesothorium 1<br>Isolated mesothorium 2<br>Collaborated with Lise Meitner and c  | discovered protoac  |  |
| 1908 - 38<br>1910 -   | Isolated mesothorium 1<br>Isolated mesothorium 2<br>Collaborated with Lise Meitner and of<br>Professor of Chemistry, Berlin<br>Professor Kaiser Wilhelm Institute   | discovered protoac  |  |
| 1903 - 38<br>1910 -<br>1912 - 28  | Isolated mesothorium 1<br>Isolated mesothorium 2<br>Collaborated with Lise Meitner and of<br>Professor of Chemistry, Berlin<br>Professor Kaiser Wilhelm Institute   | discovered protoac<br>for Chemistry, Ber  | lin-Dahlem   |
| 1908 - 38<br>1910 -<br>1912 - 28<br>1924 -  | Isolated mesothorium 1<br>Isolated mesothorium 2<br>Collaborated with Lise Meitner and of<br>Professor of Chemistry, Berlin<br>Professor Kaiser Wilhelm Institute<br>Member, Prussian Academy of Sciences<br>Director, Kaiser Wilhelm Institute   | discovered protoad<br>for Chemistry, Ber<br>s<br>for Chemistry, Ber   | lin-Dahlem   |
| 1908 - 38<br>1910 -<br>1912 - 28<br>1924 -<br>1928 - 45   | Isolated mesothorium 1<br>Isolated mesothorium 2<br>Collaborated with Lise Meitner and of<br>Professor of Chemistry, Berlin<br>Professor Kaiser Wilhelm Institute<br>Member, Prussian Academy of Sciences<br>Director, Kaiser Wilhelm Institute<br>Member, Swedish Academy of Sciences  | discovered protoad<br>for Chemistry, Ber<br>s<br>for Chemistry, Ber   | lin-Dahlem   |
| 1908 - 38<br>1910 -<br>1912 - 28<br>1924 -<br>1928 - 45   | Isolated mesothorium 1<br>Isolated mesothorium 2<br>Collaborated with Lise Meitner and of<br>Professor of Chemistry, Berlin<br>Professor Kaiser Wilhelm Institute<br>Member, Prussian Academy of Sciences<br>Director, Kaiser Wilhelm Institute<br>Member, Swedish Academy of Sciences  | discovered protoad<br>for Chemistry, Ber<br>for Chemistry, Ber  | lin-Dahlen<br>lin-Dahlen   |
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| 1908 - 38<br>1910 -<br>1912 - 28<br>1924 -<br>1928 - 45   | Isolated mesothorium 1<br>Isolated mesothorium 2<br>Collaborated with Lise Meitner and of<br>Professor of Chemistry, Berlin<br>Professor Kaiser Wilhelm Institute<br>Member, Prussian Academy of Sciences<br>Director, Kaiser Wilhelm Institute<br>Member, Swedish Academy of Sciences<br>Lectured at Cornell University<br>In collaboration with Strassmann di<br>fission of uranium and thorium (Dec<br>Lectured in England, Canada, Sweden<br>Visited Rome<br>Lectured in Stockholm and Budapest   | discovered protoad<br>for Chemistry, Ber<br>for Chemistry, Ber<br>scovered neutron i<br>)<br>and the U.S.   | lin-Dahlen<br>lin-Dahlen   |
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HAHN, Dr. Otto

Dr. Otto Hahn, world-renowned German scientist and Nobel Prize winner, was last reported as President of the Kaiser Wilhelm Gesellschaft (British Zone) 1/ and a member of a group of scientific research conducted University of Gottingen on the program of scientific research conducted under the authority of the Allied Control Commission in Germany. 2/

Prewar data reveals that Hahn is from a well-known Frankfurt middleclass family of reportedly democratic leanings. His father had a retail panel glass business which one of Hahn's brothers developed into a reputable firm of interior decorating and antiques. His other brother was Studienrat at the Goethe-Gymnasium in Frankfurt and a renowned numismatist. 3/

An officer in the first World War, 3/ Hahn had been associated with scientific research since 1904 when he was a member of the Ramsay Laboratory, University College, London. 4/ From 1908 he contributed steadily to the advance in specialized chemical techniques needed for pioneering in the field of heavy radio-active elements and in collaboration with physicist Lise Meitner discovered protoactinium. Later (Dec 38), while working with Fritz Strassman, Hahn discovered neutron induced fission of uranium and thorium for which he received the Nobel Prize for Chemistry, 1944. 5/

During the war Hahn worked as head of the Keiser Wilhelm Institute for Chemistry in Berlin-Dahlem on the German atomic energy program which was supervised by the Nuclear Physics Division of the German National Research Council and toward the end of the war evacuated to Tailfingen, Research Council and toward the end of the war evacuated to Tailfingen, Wurtenberg 5/ where he was picked up by US forces. Shortly after V-E Wurtenberg 5/ where he was picked up by US forces. Shortly after V-E day Hahn was sent to England with other German personnel, 6/ and at that time was described as having a sense of humor and definitely friendly time was described and the U.S. 6/ When the atom bomb was announced disposed to England and the U.S. 6/ When the atom bomb was announced people in view of his discovery and claims that originally he had contemplated suicide when he realized the terrible potentialities of his discoveries. 7/

Based on a survey of his premer work only, Hahn was rated by U.S. sources in the beginning of the war at the very top in his field 8/ and in 1945 was given a very high rating both for his scientific preeminence and as an intelligence target. 9/ Further indication of Hahn's importance was shown in a German report which stated that in 1943 a meeting was called by Mr. Speer, German Minister for Armanents and War Production, and Hahn by Mr. Speer, German Minister for Armanents and War Production, and Hahn cribe him as one of the world's greatest scientists in ruclear physics 3/

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#### HAHN, Dr. Otto

and an outstanding scholar in the field of physical chemistry, 11/ and more recent reports have stated that he is the most expert of German chemists and a highly valuable man, 12/ he is considered by other intelligence sources as past his prime, 5/ of negligible value scientifically to the US or the United Kingdom, and in view of his age of comparatively little value to other nations. 1/

Politically, while prewar reports describe Hahn as a democrat and a strong anti-Nazi 3/, 11/, 13/ who went out of his way to help victims of Nazi persecution 11/ and other US sources since V-E day have considered him democratic, 12/ Hahn has also been reported as a good German, who though not a strong Nazi, went along. 5/ Though he has been referred to as definitely friendly disposed toward the U.S. and England, 6/ he nevertheless vehemently opposed the Paperclip Project and wrote a severe criticism entitled, "Invitation to USA," which appeared in the Göttingen Uni-versity News, 21 February 1947. 14/. At that time Hahn felt, and claimed to have the backing of many other German professors, that pressure was put on German scientists in order to persuade them to go to the U.S. and stated that his group was convinced that the official American way was to crush German science. With reference to the former he claimed there were instances where men lost their jobs and were then invited to work in the U.S. and he pointed to the proposed dissolution of the Kaiser Wilhelm Gesellschaft in the American Zone as indicative of the latter. 14/ Hahn continued to criticize British and American activities in his recent (May 1948) lecture tour in Switzerland at the Federal Institute of Technology and in Berne and Basel. 15/

A United States\_request for the allocation of Hahn was refused by the British on the grounds, according to the Daily Express, that "unless the drainage of scientific and technological talent from the British Zone was stopped, Germany would never become self-supporting." 19/ However, Hahn himself believes that it is a German scientist's duty to remain in Germany and aid in the reconstruction 18/ and in view of this attitude, it is doubtful that he would have considered coming to the U.S. for scientific work. 5/

Hahn's attitude toward the USSR was indicated in 1945 when he reportedly was very much afraid of Russia and felt a profound distrust of Stalin. He believed that if conditions were to get very bad in Germany even the British and American controlled zones would be driven into the arms of Stalin. He reportedly preferred to have Germany lean toward the West and expressed the hope that the Allies would help to such an extent with food, etc. that such conditions would not arise. <u>16</u>/ a Further indication was given in December 1947 when Hahn stated he no longer considered

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#### HAHN, Dr. Otto

returning to Berlin, as two of his consultants, who both knew a great deal about uranium, and who recently returned there, had disappeared, having, it was known, departed in an easterly direction. 17/

Prof. Hahn, at the time he gave his Nobel-lecture at the Royal Institute of Technology in Stockholm, Sweden and picked up his check for 123,000 Swedish crowns (\$34,000), ended his speech by expressing the hope that atomic knowledge will be used in the service of scientific research, in medicine and in other peaceful purposes and will not become a means of destroying the culture which humanity has been ableto build up during millenniums. 20/

| 1/              | IAC  | Agency,  | -Washington,                           | D.C.,    | 19 Dec 47                         |
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| $\overline{2}/$ | u    | 11       | u                                      | 11       | 9 Aug 48                          |
| 3/              | Ħ    |          | H .                                    |          | 11 Nov 44                         |
| 4/              | Inte | ernation | al-Who's Who                           | <u> </u> | -1948                             |
| 5/              | IAC  | Agency.  | -Washington,                           | D.C.,    | undated                           |
| 61              | n    | - n - 7  | n                                      |          | May 45                            |
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| 15/             | n    | u        | ti                                     | 11       | 14 May 48                         |
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| 17/             | Nai  | lynnor   | st of World                            | Broado   | easts & Radio Telegraph Services, |
| <i></i>         |      |          |  |          | 13 Dec 47                         |
| 18/             | TAC  | laenev   | Washington,                            | D.C      |                                   |
| 19/             | Dei  | ilv Ryny | ess, London                            |          | 7 May 47                          |
| 20/             | TIC  | Ageney   | Washington,                            | D.C      |                                   |
| <u>w</u>        | TWA  | NEOROJ J | . HOULDIG VILL                         | ~····    |                                   |

83-1021-1388

PUBLICATIONS OF OTTO HAHN

"Isotope Weights & Packing Fraction Curve" in collaboration with Flügge & Mattacuh Report on the Work at the KWIC on Preparation 38." 1940. Work on Nuclear Physics at KWIC" 1941; a Chemical Work; b) Investigation of Resonance Process; c) The Fission Process of Prep. 39. "The Fission of Uranium Nucleus." 1942,-"The Experimental Work on the Separation of Uranium Fission Products" in collaboration with Strasman, Gotte; 1942. "The Question of the Origin of the 2.3 day Isotope of Element 93 from Uranium," in collaboration with Strasman; 1942. "Artificial Transmutation & Fission of Uranium" 1943. "Chemical Separation of Uranium Fission Products" 1944 "Chamical Separation of Uranium Fission Products II; in collaboration with Strassmann, 1944. Radio Active Strontium & Ittrium Isotopes Resulting from U Fission - in collaboration with Strassman 1943. On the behaviour of the alkaline earth isotopes produced by the bombardment of uranium with neutrons - in collaboration with Strassmann 1939. Production of active Barium isotope from uranium & thorium by neutron bombardment; production of further radioactive fragments by fission of Uranium, in collaboration with Strassmann 1939. Do "Trans-uranium elements" exist? 1) Final proof of the non-existence of "Ekaplatinum" and "Eka-iridium" in collaboration with Strassmann - 1939. On the fragements of uranium fission, in collaboration with Strassmann 1939. Further fission products from the bombardment of Uranium, with neutrons. In collaboration with Strassmann 1939. On the fission of Uranium nucleus by slow neutrons, in collaboration with Strassmann 1939. Separation of isotopes of krypton from those of Xenon produced by U fission, in collaboration with Strassmann - 1940. Preparation of fission products of uranium by the use of memanating power" of uranium compounds, in collaboration with Strassmann - 1940. Preparation of fission products of Thorium by the use of the "emanating power" of thorium hydroxide, in collaboration with Strassmann - 1940 On the experimental disentanglement of elements and isotopes produced by the fission of Uranium, in collaboration with Strassmann & H. Götte - 1942. On short-lived isotopes of Barium and Lanthamum produced by Uranium fission, in . collaboration with Strassman, 1942. On some fragements of the fission of Thorium, in collaboration with Strassmann & S. Migge - 1939. On the fission of the nuclei of uranium and thorium into lighter atoms, in collaboration with Strassmann - 1939. On some further products of uranium fission, in collaboration with Strassmann - 1940. Some new fission products of uranium, in collaboration with Strassmann - 1940. Short-lived isotopes of Bromine and Iodine produced by uranium fission, in collaboration with Strassmann - 1940. On the production of Zirconium and Protactinium produced by the bombardment of Thorium with neutrons, in collaboration with Strassmann - 1941. On the isotopes of Wolybdenum produced by Uranium fission, in collaboration with Strassmann - 1941. On the isotopes of Molybdenum produced by Uranium fission, in collaboration with Strassmann - 1941 8-8-10-21-1389

### Publications of Otto Hahn contd

The isolation and some\_of the properties of element\_93. In collaboration with Strassmann. 1942. Some peculiarities of the isotopes produced by nuclear fission of Uranium and Thorium - 1939 Reactions of atomic nuclei and the fission of uranium - 1940. The transmutation of chemical elements, a chapter of physical and chemical cooperation - 1942. Natural and artificial-transmutation of atomic muclei - 1941. Artificial atomic transmutations and the fission of heavy nuclei - 1942. The transmitation of chemical elements and the fission of uranium - 1944, Artificial atomic transmutations and the fission of heavy nuclei - 1944. Artificial atomic transmutations and the fission of heavy nuclei - 1944. The Chemical elements and natural isotopes according to the state of research on isotopes and nuclei. In collaboration with Flugge and J. Mattauch - 1940. Same as above - 1939 - in collaboration with Flugge & Mattauch Concerning the report: "The chemical elements and natural isotopes according to the state of research on isotopes and muclei." 1941. Supplement 1940 and 1941 to the extensive report from January 1940: "The chemical elements and natural isotopes according to the state of research on isotopes and muclei" in collaboration with Flugge & Mattauch, 1942. Did a radioactive Caesiunisotope exist in former geological periods? Barium and Strontium from Pollucite? in collaboration with Strassmann, J. Mattauch & Ewald -1942. Did a Caesium isotope of long half-life exist? A contribution to the interpretation of unusual lines in mass-spectroscopy? in collaboration with Strassmann, J. Mattauch & Ewald - 1943. Determinations of geological age by the Strontium method - 1942 (According to investigations by O. Hahn, F. Strassmann, J. Mattauch & H. Ewald). Determinations of geological age by the Strontium method - 1944. Radiochemistry. (In preparation) in collaboration with Krbacher. No date given.



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| Case  | <u>No.</u> 8 | 3010580   |      |
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| Date: | 13           | September | 1943 |

Name: LAUE, Max Th. F. von Birthdate: '9 October 1879 Variant: Von Laue, Max Birthplace: Pfaffendorf. near Koblenz Present Position: Titulary Deputy Director. Max Planck Institute. Nationality: German AVA, Göttingen Race: White Location: Business - Max Planck Institute Male . Sex: Private - Bunsenstrasse 16, Göttingen Marital Status: Married Name of Spouse: Gen. Occupation: Theoretical physicist Children: one son, Theodore Education: Ph.D., University of Berlin, 1903 Political: (see below) Languages: English Religion: Protestant, Evangelical Honors: Nobel Prize winner, 1914; Velbruch Prize from University of Göttingen Publications:

Career

- - Studied at universities of Strasbourg, Gottingen, Munich and Berlin. Also awarded honorary Dr. of Engineering, University of Stuttgart and honorary Dr. of Science, University of Manchester
- 1906 Qualified as a university teacher of physics at the University of Berlin
- 1909 Private Dozent (lecturer), University of Munich
- 1912 Professor, University of Zurich
- 1914 Professor, University of Frankfurt/Main Awarded Nobel Prize
- 1919 Professor, University of Berlin
  - - Member, Kaiser Wilhelm Gesellschaft zur Forderung der Wissenschaften, Berlin.

Approved for Release Date \_\_\_\_NOV\_1085

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LAUE, Max Th. F. von

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| Prior to 1940 - Repeatedly visited England, the U.S., and lectured in England, France, Sweden, Switzerland  |            |
|---|------------|
| 1936 — 1945 - Director, Kaiser Wilhelm Institute for Physics, Berlin-Dahlem   |            |
| Member, Gesellschaft der Wissenschaften in Göttingen  |            |
| Member, Mathematical Physical Class, Preussische Academie der<br>Wissenschaften - Berlin  |            |
| Member, Physikalsche Gesellschaft   | 3<br>1     |
| Member, Deutscher Mathematischer Verein   |            |
| Member, Kant Gesellschaft   |            |
| Member, Deutsche Röntgen-Gesellschaft (honorary)  |            |
| 1947 — date Deputy Director of Max Planck Institute, AVA, Göttingen;<br>Chairman, Hundred year old Deutsche Physikalische<br>Gesellschaft (British zone);<br>Active in foundation of Bi-Zonal Physikalische Technische<br>Reichsanstelt   |            |
| 1948 - Scheduled_to_visit_the_U.S., June_or_July  |            |
| Prof. Dr. Max von Laue, world renowned German scholar 1/ and a member   |            |
| of a group of physicists working at the University of Göttingen on the pro-   | -          |
| gram of scientific research conducted under authority of the Allied Control   | 1          |
| Commission in Germany, was scheduled to visit the United Ctates in Visit and  | · ·        |
| Commission in Germany, was scheduled to visit the United States in June and<br>July of this year. 3/ Awarded the Nobel Prize in 1914 for his research on  |            |
| the Interference Phenomenon of I-rays, 1/ he enjoys the reputation of being   |            |
| perhaps the most eminent living German physicist 4/ and the most respected  |            |
| of the older physicists among the German scientists. 2/   |            |
| A granistin theoretical shuding V   | <b>I</b>   |
| A specialist in theoretical physics, Von Loue was reported prior to   | <u> </u>   |
| the war as a champion of the modern school of Einstein's theory of Relativity   | } : ÷      |
| and had devoted his attentions to the quantum theory, the Compton Effect, to<br>Bohris stomic model to the "Final and a storight of the compton of the storight o |            |
| Bohr's atomic model, to the "Einstein-Bohr equation" and the disintegration of the atom. 5/   |            |
|   |            |
| He spent the war years as Professor of theoretical physics at the   | 2 <u></u>  |
| University of Berlin and as Director of the Kaiser Wilhelm Institute for<br>Physics in Berlin Debler 1/ To 10// it was not the the for  | - <u>+</u> |
| Physics in Berlin-Dahlem. 1/ In 1944 it was reported that his full time   |            |
| was taken up with teaching 8/ and Von Laue's claim that he had nothing to   |            |
| do with the German uranium project was generally concurred in. 6/, 7/<br>He went slong with Heisenberg and the others when the KWIP was evacuated to  | :          |
| Hechingen in the closing days of the war 2/ and it was there that he was  |            |
| Ser at the stand delo at the ser 2/ and to was there that he was  |            |



834021-1393


LAUE, Max von

picked up by US forces. Shortly after V-E day he was sent to England with other German personnel 10/ end at that time was described as a shy, mild-mannered man who could not understand the reason for his detention. 11/

Politically Von Laue has been reported as opposed to the Nazi regime. 1/, 8/ Prior to the war Von Laue reportedly was not active in politics. While some of his friends considered him a liberal, others thought he had conservative leanings and he is believed to have been a member of the former German Democratic Party. 1/ Because of his high scientific standing Von Laue could afford to oppose the Nazis and from the beginning reportedly did in numerous cases to provide positions abroad for German scholars dismissed from office by the Nazi Government for political or racial reasons. In 1943 his letters from there to friends in the U.S. expressed opposition to Hitler's during the war, has been repeatedly described as very well disposed to England

Scientifically Von Laue was rated during the war as one of the leading scientists of the world and the noblest figure in German science. 8/ He has also been described as a scholar of superior intellect and learning, who, though shy and rather awkward in his personal bearing and not a fluent public speaker, commanded respect wherever he appeared. 1/ Though one recent report described him as perhaps the most eminent living German physicist, 4/ other intelligence sources state that, since he has done no creative work in science value scientifically to the U.S., the U.K. or other nations. 13/

A recent (Oct 47) visitor to Göttingen reported that Von Laue seems to be an old man, though he talks vigorously and is in close touch with everything about him. 2/ He is Titulary Deputy Director of the Max Planck Institute but his administrative interests are actually entirely centered in the Deutsche Physikalische Gesellschaft (the One-Hundred-Year-Old German Physical Society tists and reestablish intellectual freedom) and in the foundation of the Bi-Zonal Physikalische Technische Reichsanstalt (German Bureau of Standards). 14/ Physik. 14/

IAC Agency, Washington, D.C., 21 Oct 44 n Ħ 9 Aug 48 Ħ 8 Ħ 11 21 May 48 n Ħ u 21 May 48 tt Ħ 12 Apr 44 11 11. n undated\_ 28 Mar 46 - 3 -80-62 -1394

LAUE, Max von

| <u>8/</u> | JAC     | Agency,         | Washington, | D.C.          | 31 Aug 44 |
|-----------|---------|-----------------|-------------|---------------|-----------|
| 2/        | #       | 11              | ŧ           | R             | 12 Feb 48 |
| 10/       | 11      | 11              | 11          | 11            | May 45    |
| 11/       | n       | n               | 11          | n             | 6 Aug 45  |
| 12/       | Ħ       | H .             | 11          |               |           |
| 13/       | H       | n               | n           |               | 24 Sep 47 |
| 571       | Phy     |                 | ha Distan   |               | 19_Dec_47 |
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## CIA BIOGRAPHIC REGISTER

1

# 241850

| Name: HEISENBERG, Dr. Werner Carl<br>Variant:   | <u>Case No</u> . 8060359<br><u>Date:</u> 21 Sep. 1948 |
|---|---|
| <u>Present Position:</u> Director, Max Planck In<br>Göttingen<br><u>Location</u> : Business - Max Planck Institute  | Birthplace: Wurzburg                                  |
| AVA, Göttingen<br>Private - Merkelstrasse 18, Göt   | Nationality: German                                   |
| Telephone: 3647<br><u>Gen. Occupation</u> : Theoretical physicist   | Race: White   |
|   | <u>Sex:</u><br><u>Marital Status:</u> Married (since) |
| Education: Ph.D. University of Munich, 19   | 23 <u>Name of Spouse:</u> Elisabeth                   |
| Languages: English  | Schumacher<br>Children: three sons and                |
| Hanana Mahal Dadas Award  | three daughters, and one                              |
| Honors: Nobel Prize for Physics, 1932   | recent addition.                                      |
|   | Religion: Evangelical                                 |
|   | Political Affiliation:                                |
|   | (See below)   |
| Career  |   |
|   |   |
| 1920 - 1923 Studied under Sommerfeld  |   |
| 1924 - Dozent, Göttingen Universit  |   |
| Awarded Rockefeller Founda<br>1926 - Lecturer, Copenhagen Univer  | tion Trip to Copenhagen                               |
| 1926 - Lecturer, Copenhagen Univer<br>Member, Saxon Academy of Se   |   |
| Member, Kaiser Leopold Acad   | demy of Sajenaa at Halla                              |
| 1927 - 1941 Prof. of Theoretical Physic   | cs. University of Leipzig                             |
| 1929 - Lecture of U.S., Japan and   | India.  |
| 1932 - Awarded Nobel Prize for Phy  | vsics:  |
| Lectured in the U.S.  | i   |
| 1936 - Began voluntary military tr<br>Fighter Regiment.   | raining courses in 99th Mountain                      |
| 1939 - Lectured in U.S.   |   |
| 1942 - 1945 Professor of Theoretical Ph   | ysics, University of Berlin;                          |
| Co-director of Institute of   | Theoretical Physics                                   |
| University of Berlin and t  | he KWI for Physics, Berlin-Dahlem                     |
| 1943 - Lectured in Surich   |   |
| Lectured in Budapest<br>1946 - date Director, Eax Planck Instit   |   |
| · · · · · · · · · · · · · · · · · · ·   | on "Quantum Theory of Wave                            |
| Fields and Elementary Part  | icleal at the Coverdich                               |
| Laboratory, Cambridge Univ  | ersity. England. (Feb.)                               |
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|   | Approved for Release                                  |
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#### HEISS BERG, Dr. herner Carl

Dr. Werner Heisenberg, top ranking German theoretical physicist 1/and Nobel Prize winner, 2/ is at present Director of the Max Planck Institute for Physics at Gottingen 1/ and a member of a group of scientists working there on a program of research under the authority of the Allied Control Commission in Germany. 3/

Heisenberg attended the public schools of Murzburg and Lunich, and from 1911 to 1920 the Maximilian secondary school for humanities in Munich. This period of instruction was twice interrupted; in the summer of 1918 by service in an agricultural project in kiesbach, and in the spring of 1919 by taking part in the battles near Lunich with the Freikorps Latzow (Ldtzow Volunteer Corps). 4/ These "Freikorps" were very reactionary, militaristic, old regime groups which operated after World War I under the protection of the Junkers and their ilk. 2/ In the fall of 1920 he entered the University of Munich where he studied physics and mathematics, hearing lectures by Sommerfeld, Wien, Voss and Seliger. Heisenberg left Munich during the winter of 1922 - 23 to study at Göttingen but returned there and received the degree of Ph.D. in the summer of 1923 with a thesis on the problem of turbulence. The following fall he returned to Göttingen where he was an assistant in the Institute for Theoretical Physics and --received a "venia legendi" there in the summer of 1924. His studies with Sommerfeld and his participation in a series of lectures given by Bohr at Göttingen led Heisenberg to be greatly interested in the question of atomic physics. During a visit to Copenhagen in 1924, as recipient of a Rockefeller stipend, he learned Bohr's views on atomic physics and in 1925 at Göttingen began his work on quantum mechanics. 4/ After two years there as a dozent, Heisenberg returned to the University\_of Copenhagen where he lectured for a year at which time he became a full professor at the University of Leipzig. Two years later he made an extended lecture \_\_\_\_\_ tour of the U.S., India and Japan. 4/

In 1932 Heisenberg was awarded the Nobel Prize-for Physics for his development of quantum mechanics and its resultant discovery of allotropic forms of hydrogen. <u>5/ At thr</u> time he was the youngest scientist ever to receive the Nobel Prize. <u>6/ At the age of thirty-one Heisenberg had</u> presented the world with a new mathematical method adequate for describing how the electrons revolving around the nucleus stick to their orbits. The famous principle of indeterminance or uncertainty was a further development of his theory. <u>5/</u>

Prewar\_reports describe Heisenberg as a man of medium, athletic build with yellow blond hair combed straight back. His dress was usually that of the professorial class, that is drab suits and dark shoes, but he reportedly never\_wore stiff collars, and when vacationing or at home preferred informal attire. A great family man, having come from a good family himself, Heisenberg kept regular hours but worked very hard and often very late. A non-smoker and ill-disposed to liquor and public functions, his chief forms of diversion were athletics and music.

83-021-1398



#### HEISENBERG, Dr. Werner Carl

A good swimmer and tennis player, he loved tennis and skiing above everything else and enjoyed mountain climbing almost as well. As a music lover he attended all the better concerts and is an accomplished pianist himself.  $\frac{7}{}$  Heisenberg once made a trip as a deck hand on a German cargo boat from one of the Baltic ports to the Mediterranean, earning his way and mixing with the rest of the crew.  $\frac{8}{}$ 

Heisenberg was Professor of Theoretical Physics at the University of Leipzig from 1927 to 1941 and during-this period visited the U.S. on lecture tours in 1932 2/ and again in 1939. During this latter visit he reportedly was very serious and extremely depressed and gave evidence of his attitude toward the Nazi regime. According to one source, though he allegedly did not believe in the Nazi regime and wished to see the old Germany restored, he felt it his duty to support the German government ... 9/.... There are indications that Heisenberg was strictly opposed to Nazism from the beginning of Hitler's rule 8/10/11/12/13/14/, and that in 1935, he, along with other professors, protested against the dismissal of five Leipzig professors. 10/ Described as a conservative and nationalistic, 12/ he gave lectures on relativity long after that subject had been banned by the Nazis as a Jewish theory (Einstein). As a result he was for a time on the blacklist so far as the Party was concerned and was the object of a storm of invective from "Die Sturmer", Julius Streicher's mouthpiece. 8/ Captured German documents also show that in a memorandum regarding Heisenberg, from Himmler to the SS Dozentenführer in Leipzig, Himmler thanked and congratulated the Leipzig SD for the very thorough and accurate report on Heisenberg. The memorandum stated in substance that "while it is evident that Heisenberg's attitude was not exactly in line with that described by the Party, I (Himmler) regard him as essentially decent and want the SS and SD organizations in Leipzig informed of that fact. In view of his comparative youth and influence and ability to attract future scientists, we cannot permit ourselves to remove or kill him. It would be highly desirable to get Heisenberg to write a scientific article for one of the publications of the SS. It is hoped that he can ultimately be brought to work with us, possibly within the framework of the Ahnenerbe, "15/a German scientific organization whose mission it was to promote the theory of-Aryanism),

Later reports, however, describe Heisenberg as somewhat of a politician and inclined to be an opportunist. 2/ In spite of his early opposition to Hitler's rule, he later told his friends that he had now accepted the Nazi regime as a necessary evil 10/, 11/. According to one source it was thought that Heisenberg had shrewdly taken a middle path, neither identifying himself with any of the Nazi brutalities nor yet opposing German aggrandisement. 8/ Though he is considered anti democratic by one U.S. source 16/, he was not a Nazi party member 2/ nor was he included in the list of professors who signed an oath of allegiance to Hitler. 10/ Reportedly, Heisenberg's dream of a position was to succeed Sommerfeld in the Physics Chair at Munich. He would have done so had he been willing to join the Party and he can never forgive the Nazis for this, 14/



83-02 -1399



#### HEISENBERG, Dr. Werner Carl

In 1941 Heisenberg was transferred from the University of Leipzig to Berlin where he was appointed Professor of Theoretical Physics at the University of Berlin and was made co-Director at the Institute of Theoretical Physics there and of the Kaiser Wilhelm Institute for Physics in Berlin-Dahlem. 11/ His group, which included Hahn, Von Laue, Von Weizsacker, Wirtz, Sauerwein and Hocker 17/, did research on pile experiments. 2/ In January of 1943 Heisenberg lectured in Zurich, Switzerland and associated with Gregor Wentzel (new at University of Chicago on a permanent appointment), Professor of Theoretical Physics at the University of Zurich, and Paul Scherrer, Professor of Physics at the Zurich Institute of Technology, 13/ In the summer of 1943, Heisenberg and his team evacuated to Hechingen, 17/ and continued on a program of atomic energy attaining in 1945 a heavy water pile not quite self-sustaining. 1/

It was at Hechingen that Heisenberg was picked up in May 1945 and with other German personnel was shipped to England shortly after V-E day. 18/ At that time he was described as very friendly and genuinely anxious to cooperate with British and American scientists. 19/ Heisenberg reportedly did not believe that the USSR would allow Russian scientific work to be made public 20/ and that in view of their ideologies he did not see how war between the USSR and America could be prevented. He indicated a preference, if a Western European bloc was established, to join this bloc rather than the USSR. 20/ Heisenberg also believed at that time that scientists were too dependent on their governments and thought they should try to get some political influence. 20/

After returning to Germany in 1946 Heisenberg was made the Director of the Max Planck Institute for Physics located in Allegemeine Versuchsanstalt at Obtingen, (British Zone). 21/ He wrote a long and detailed summary on "Research in Germany on the Technical Application of Atomic Energy" which appeared in the August 16, 1947 issue of Nature, page 211 and outlined the experiments made by German scientists through the war years. 22/ Early in 1947 Heisenberg received an offer to work in the Argentine and had previously in August 1946 reported an offer from the Russians. The August 1946 reported an offer from the Russians. In August 1946 reported to accept any external offers provided that there nationalist would be tempted to accept any external offers provided that there was any hope for setting up his Institute in Germany. 23/ According to one source Heisenberg has no desire to leave Germany although he would like an occasional lecture series of a short visit to another country to talk with other scientific minded people. 14/

A recent (1947) visitor to Göttingen described Heisenberg as "middleaged" and found few traces of the boyish manner which he remembered from having seen him in the U.S. in 1929. At that time Heisenberg, who has several very good younger men working with him, thought that the study of cosmic radiation may be fully as rewarding as the study of nuclear processes with the aid of cyclotrons, etc. for the next few years. His laboratory, howeever, was far from lavishly equipped, and he is unable to get equipment.



80-222-1400



#### HEISENBERG, Dr. Jerner Carl

Heisenberg did not seem proud of anything in his Institute except a library which had a very good collection of German and American scientific journals. 1/

been

Scientifically Heisenberg has always rated at the very top in his field 1/, 2/, 10/, 11/, 12/, 13/, 16/, 24/. He has been described as the foremost living theoretical physicist, the only theorist of Nobel Prize stature 25/ and as one of the world's top-ranking physicists Heisenberg would be of high value to any nation, including Germany. 1/

| <u>1</u> /                  | IAC  | Agency,    | Washington, -  | D.C.,   | 19 Dec 47      |
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| 2/                          | ŧ    | n          | N              | 11 .    | undeted        |
| 3/                          | n    | n          | 11             | n       | 9 Aug-48       |
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| ええようして                      | Scie | ence News  | Letter         |         | 18 Nov 33      |
| 6/                          | New  | Internat   | tional Year B  | ook     | 1933           |
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| 8/                          | tt   | ัท ่       | 11             |         | 1 Mar 44       |
| <u>9</u> /                  | ţi.  | u          | n              | ··· • • | 17 June 44     |
| 10/                         | at   | n          | 11             | n       | 3 Mar 44       |
| $\overline{\overline{n}}/$  | n    | B .        | u -            | 8       | 31 Aug 44      |
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| 13/                         | n    | n          | <b>H</b>       | N       | Mar 44         |
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| 17/                         | u    | <b>M</b> . | u              | u       | 9 Apr 45       |
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| 19/                         | H    | <b>H</b> - | 8 <sup>1</sup> | 10      | 6 Aug 45       |
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| 21/                         | 11   | <b>H</b> · | ti             | H       |                |
| 22/                         | Nat  | wre, p.    | 211            |         | 16 Aug 47      |
| 23/                         |      |            | Washington,    | D.C.    |                |
| 21.1                        | 1    | 11         | 1              |         | undated        |
| 35/                         | n    | N          |                | n       | 4 Mar 47       |
| 2                           | ••   |            |                |         | ny Matsia ny F |

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### PUBLICAT IONS OF WERNER HEISENBERG

|   | "The Physical Principles of the Quantum Theory", 1930                              |
|---|--|
|   | "Excursions in the Fundamentals of Exact Science", 1935                            |
|   | "Principle of Uncertainty"   |
|   | Papers on "Matrix Mechanics"   |
| ¥ | "Experiments with a Lattice Arrangement of Water & Uranium, 1941 ( in              |
| 븇 | "Experiments with a Lattice Arrangement of D-0 & Uranium," 1941 ( collaboration    |
| × | "Neutron Increase in D <sub>2</sub> O - Uranium Metal Lattice System," 1942 ( with |
| ¥ | "Neutron Increase in Uranium Metal through Fast Neutrons, " 1942 ( Dopel           |
| Ħ | Report on the 1st Experiments on the Apparatus Set-up at                           |
|   | the KWI for physics 1940, in collaboration with others.                            |
| ¥ | Report on the Experiments with Layer Arrangements of Uranium and                   |
|   | Paraffin at the KWI for Physics, Berlin-Dahlem. 1941; in colla-                    |
|   | boration with others.  |
| ¥ | "Preliminary Report on the Results from a Layer-construction Sphere                |
|   | of Uranium Metal and Paraffin" - 1942; in collaboration with others.               |
| ¥ | "Measurements of Layer Arrangements of Uranium Netal and Paraffin,"                |
|   | 1942 in collaboration with others.   |
| ¥ | "Tests with New Layer Arrangements of Uranium Metal and Paraffin" in               |
|   | collaboration with others.   |
| ¥ | "Notes on the Planned Half-technical Experiment with 1.5 Tons of D_O and           |
|   | 3 Tons of Uranium Metal", 1942   |
| ¥ | Three reports on Berlin Pile Experiments B-6 & 7; 1944, 1945; in                   |
|   | collaboration with others.   |
|   | Diffusion Length of Thermal Neutrons in U30g; in collaboration with                |
|   | Dopel: 1940  |
|   | Determination of Diffusion Length of Thermal Neutrons in Heavy Water               |
|   | in collaboration with Dopel, 1940.   |
|   | Possibility of Technical Energy Production from Uranium Fission I.                 |
|   | n,d. (1939 or 1940)  |
|   | Possibility of Technical Energy Production from Branium Fission II; 1940           |
|   | The Possibility of Producing Energy from the Isotope 238, 1941.                    |
|   | Physics of Atom Nuclean. 1944.   |
|   | Experiment with 1.5 tons D and U and a 40 cm. Carbon Reflector.                    |
|   | In colleboration with others, 1945.  |
|   | Buergy from Nuclear Fission. 1943.   |
|   |  |

\* Unpublished.

J.

834021-1402





## 241859

### CIA BIOGRAPHIC REGISTER

|  | Case No. 8061141   |
|--|--|
| Name: GERLACH, Dr. Walther   | Date: 10 September 1948  |
| Variant: GERLACH, Dr. Walter                                       |  |
| Present Positión: Prof. of Physics,<br>Bonn University (see below) | Birthdate: 1 August 1839<br>Birthplace: Biebrich on<br>the Rhine |
| Location: Mussallee 6, Bonn<br>Telephone: 4130 (see below)         | Nationality: German  |
| Gen. Occupation: Physicist   | Race: White<br>Sex: Male   |
| Education: Ph.D, University of Tubingen, 1912                      | Marital Status: Married  |
| Education: Ph.D, University of Lassa                               | Name of Spouse:  |
| Languages:   | Children:  |
| Honors:  | Religion: Protestant   |
| Publications:  | Political Affiliation:   |
|  | TOTIVICAL AMAZERIA   |

(See below)

#### Career

| 1916 -<br>1917 - | Lecturer, University of Tubingen<br>Lecturer, University of Göttingen   |
|------------------|---|
| 1912 -           | Assistant Professor, University of Frankfurt/Main   |
| 1925 -<br>1929 - | - Full Professor of Physics, University of Tubingen   |
| 1929 -           | Manhow of Ravarian Academy of Science.  |
| 1938 -           | <ul> <li>Attended International Meeting at Strasbourg</li> <li>representing German scientists.</li> <li>Director of Physical Institute, University of Munich</li> </ul> |
| <b>c1941 –</b>   | - Director of Physical institute, onterphysics program of<br>- Goering's Deputy in charge of nuclear physics program of   |
| 1944 -           | the Deicheforschungsrat (SUCCEEQING LSEU)   |
| 1946 -           | data Professor of Physics, University of Bonn   |
| 1948 -           | - Reportedly in Munich (22 July 1948)   |

Dr. Walther Gerlach, last wartime Deputy to Goering in charge of the German nuclear project program (Der Bevollmächtigte des Reichsmarschalls fur Kernphysik) 1/ had been a professor of physics at the University of Bonn from 1946 until recently (July 48) 2/, when he was reported as having transferred to Munich. 3/

An experimental physicist of considerable ability 4/ and eminent in the field of spectroscopy, Gerlach reportedly has done extremely good work in the study of molecular beams. 5/ Based on a survey of his prewar work only, Gerlach was rated fairly high by U.S. sources at the beginning of the war 6/ and in 1945 was given a very high rating both for his scientific preeminence and as an intelligence target. 7/ Since that time he has been

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# SECRET

GFRLACH, Dr. Walther

described as a valuable man 8/ and a first rate experimental physicist with unusually wide interests. 2/ A man of boundless energy and with enormous zeal for the job at hand, Gerlach has been reported, however, as of small value to the US or the United Kingdom. 2/

While one fairly recent report states that Gerlach was not a Nazi 9/ and another describes him as politically indifferent, 8/ all previous reports indicate Gerlach was a thorough Nazi 1/, 4/, 10/, 11/. In 1938 Gerlach represented German scientists at an international meeting in Strasbourg and on this occasion reportedly showed violent pro-Nazi opinions. 11/ Captured documents show Gerlach was highly praised as to his political reliability on S.S. Standarten-Fuhrer reporting to Osenberg on the different specialist heads of the German scientific research program. Gerlach is further open to suspicion because of his connection with the Gestapo, 12/ and it has been recommended that he should not be offered any position of trust in an American university. 1/

Throughout the last year and a half of the war Gerlach was convinced of Germany's superiority in nuclear research and in November 1944 wrote to Martin Borrman stating he was sure they were far ahead of America in research as well as development. 15/

Gerlach was picked up by US forces in the closing days of the war and shortly after V-E day was sent to England with other German personnel. 13/ At this time he was described as friendly and cheerful. 14/ After the announcement of the atomic bomb, however, Gerlach, as the man appointed by the German government to organize research of uranium, reportedly considered himself in the position of a defeated general and contemplated suicide. 14/ Gerlach, essentially a German nationalist 10/ and in 1945 openly opposed to the idea of working for America, 16/ was not believed sympathetic.

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834021-1405

17/



GERLACH, Dr. Walther

Although a certain "Gerlach" was reported (July 48) to be in the USSR 18/ it is believed that it is Manfred Gerlach, an ex-Junker's man, 3/ and not Subject.

| 1/              | IAC        | Agency,                                   | Washington,                           | D.C., undsted_ |
|-----------------|------------|---|---------------------------------------|----------------|
| 2/              | Ħ          | T IIII                                    | 81                                    | 19_Dec_47      |
| 3/              | N          | H   | N                                     | 22 July 48     |
| $\overline{4}$  | n          | tt  | H                                     | 28 Mar 46      |
| 3/              | Ħ          | 4   | H ·                                   | Sep_47         |
| 6/              | Ħ          | 41  | ti                                    | undated        |
| 7/              | - <b>N</b> | ¥   | · · · · · · · · · · · · · · · · · · · | 21_Feb_45      |
| 8/              | Ħ          | n   | <b>n</b>                              | 24 Sep 47      |
| 9/              | 11         | n   | N                                     | 10 Dec 47      |
| 10/             | n          | R1  | n                                     | 20 Feb 46      |
| $\overline{n}/$ | Ħ          | Li an | Π                                     | 28 Aug 48      |
| 12/             | 11         | ji se | n element.                            | 7 Aug 45       |
| 13/             | Ħ          | n   | ti                                    | May 45         |
| 14/             | n          | N .                                       | N                                     | 6 Aug 45       |
| 15/             | R.         | pt  |                                       | June 45        |
| 16/             | 1          | <b>N</b>                                  | M                                     | 20 Nov 45      |
| 17/             | ţi,        | h   | ti statu                              | 20 Apr 47      |
| 18/             | 14         | <b>H</b> La                               | 1 <b>N</b> 1                          | 14 July_48     |

834021-1406

#### PUBLICATIONS OF WALTER GERLACH

"Fundamentals of the Quantum Theory", 1921

"Atomic Structure & Atomic Disintegration", 1923

"Matter, Electricity, Energy", 1923

"Spectroanalysis", Pt I, 1930; Pt. II, 1933; Pt III; 1936

Magnetism<sup>4</sup>, 1931

"Foundations & Methods of Chemical Analysis by the Emission Spectrum", 1934

"Methods of Natural Scientific Perception", 1936

\*Spectrochemical Accomplishments\*, 1939

Introduction to New Edition of Forschungsbericht. Status of Successful Pile Experiments up to January 1945 - April 1945 (rough draft)

834021-1407





241850

CIA BIOGRAPHIC REGISTER

| Name: HARTECK | , Dr. | Paul |
|---------------|-------|------|
| -Variant:     |       |      |

| Name: HARTECK, Dr. Paul<br>Variant:   | Case No. 8061157<br>Date: 8 September 1948     |
|---|--|
| Present Position: Prof. of Physical Chemistry,<br>University of Hamburg   |  |
| Location: Business - University of Hamburg<br>Private - 20 Heimhuder St., Hamburg 13<br>Gen. Occupation: Physical Chemist |  |
|   | Race: White                                    |
| Education: University of Vienna and Berlin, Ph.D.   | Sex: Male<br><u>Marital Status</u> : Unmarried |
| Languages:  | Name of Spouse:                                |
| Honors:   | Children:                                      |
| Publications:   | Religion:                                      |
|   | Political Affiliation: (See below)             |
|   |  |
| Career  |  |

| ~~ ~ ~~     | Studied Chemistry and Physics at Vienna University                       |
|-------------|--|
| 1923 - 1925 | Studied at Berlin University   |
| 1926 - 1927 | Assistant to Prof. Bicken at the Technical College at Breslau.           |
| 1928 - 1933 | Assistant to Geheimrat at Haber at the Kaiser Wilhelm Institute          |
|             | for Physikalische Chemie, Berlin-Dahlen.                                 |
| 1930 -      | Lecturer. University of Berlin   |
| 1933 - 1934 | Studied under Rockefeller Scholarship at Cambridge with Lord Rutherford. |
| 1934 -      | Appointed Professor at and Director of the Institute of Physical         |
|             | Chemistry of Hamburg University  |
| 1940 - 1945 | Experimented on isotopic separation by centrifugal process and on the    |
|             | production of heavy water.   |
| 1946 - 1947 | Dean of Faculty of Mathematics & Natural Sciences, Hamburg University.   |
| 1947 - date | Prof. Physical Chemistry, Hamburg University.                            |
|             |  |

Dr. Paul Harteck, German physical chemist, was last reported (Jan 43) as Professor at and Director of the Institute of Physical Chemistry at the University of Hamburg. 1/

As early as April 1939, when he wrote the German Army Ordnance Department of the military possibilities in uranium research, Harteck was associated with the German nuclear project. Harteck specialized on centrifuges for isotope separation and also on heavy water production. His new method for producing heavy water was considered important enough in 1944 (Dec) to have the highest priority requested for procurement items. 2/\_\_\_\_\_

| Appro | wed for Rélease |  |
|-------|-----------------|--|
| Date  | 7 NOV 1985      |  |



834025-1409



#### HARTECK, Dr. Paul

Harteck was picked up by US forces in the closing days of the war and shortly after V-E day was sent to England with other German personnel. At this time he was described as a very charming personality who appeared to be interested only in his research work 4/ and never caused any trouble. 5/

Although Harteck has been repeatedly referred to as politically indifferent, 2/, 6/, 7/ a report dated prior to V-E day describes himas a weak character personally unreliable, very ambitious, self-centered, and although not interested in politics, joined the Nazi Party for opportunistic reasons. 13/

Based on a survey of his prewar work only, Harteck was rated by U.S. sources at the beginning of the war, as fairly high in his field. B/ A further indication of Harteck's importance is shown in a report that stated in 1943 a meeting was called by Mr. Speer, German Minister of Armament and War Production, and Harteck was one of the scientists invited to attend. 9/ Later in February 1945 he was given a very high rating, 10/ and considered by US scientists to be a valuable man. 6/ A more recent report, however, describes Harteck as a man of erratic energy, and highly intelligent, but not giving evidence of fulfilling in maturity the great promise of his earlier days. 11/ It has been stated that he might conceivably be of value to the US or the United Kingdom if his perhaps latent powers were released in the right direction and that he could be of value to any nation whose knowledge of heavy water and/or isotope separation were less than his. 11/

Chemistry was stated to be in good shape and one of the best equipped in Germany with first-rate physical equipment for the study of the problems of diffusion of gases, which is Harteck's special interest. He reportedly had been working on methods of isotope separation by taking advantage of different diffusion rates and his first pride was a great double centrifuge, almost ready to run, with which he is going to try to separate isotopes. It was reported at this same time that there seemed to be some feeling against Harteck in some quarters at Hamburg.

834021-1410



## HARTECK, Dr. Paul

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| J/          | IAC | Agency, Washi               | ngton, D.C.,   | 21-Jan 48  |
|-------------|-----|-----------------------------|--|------------|
| <u>2</u> /  | Ħ   | N                           | ti   | undated.   |
| 3/          | ti  | C <sup>™</sup> ₩            | <b>u</b>   | ¥ay 45     |
| 4/          | n   | ti                          | 11   | 6 Aug 45   |
| 5/          | n   | u .                         | n  | 14 July 45 |
| <u>6</u> /  | Ħ   | 11                          | N  | 24 Sep 47  |
| 2/          | Ħ   | H                           | 11 ( <u>1999)</u> - 1997 - 19 | 23 Mar 46  |
| <u>8</u> /  | n   | N                           | H  | undated    |
| 2/          | Ħ   | Ni olio alla ella ella<br>L | ll   | 19-Aug_45  |
| <u>10</u> / | n   | n                           | N  | 21 Feb 45  |
| <u>11</u> / | u   |                             | 11   | 19_Dec_47  |
| 12/         | Ħ   | 11                          | 1  | 12_Feb_48  |
| <u>13</u> / | Ħ   | . N                         | N  | 30 Aug 44  |



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|      | PUBLICATIONS OF PAUL HARTECK  |
|------|---|
| "Eni | ichment of Krypton Isotopes" - 1940, in collaboration with Groth.   |
|      | tus of Work on Separating U 235 and U 238 - 1940, in collaboration ith Groth.   |
|      | Slowing Down Diffusion and Capture of Neutrons in Solid CO <sub>2</sub> and heir Capture in Uranium - 1940, in collaboration with others.                   |
| The  | Production of Heavy Water - 1941,   |
| Rep  | ort on Status of Work & Proposals for Future Work - 1941.   |
| The  | Separation of Uranium Isotopes - 1941   |
|      | rmo-diffusion Effect etc. & Comparison with Thermo Syphon Effect - 194<br>n collaboration with Jensen.  |
|      | Energy Requirements in the Enrichment of Isotope U 235 - 1941,<br>a collaboration with Jensen.  |
| Spe  | ech in RFR 26 Feb 42 on Production of Heavy Water - 1942.   |
| Vie  | points on Construction of Clusius-Linde Exchange Plant - 1942.  |
| The  | Separation of Isotopes with Special Reference to Uranium - 1942.  |
| Pro- | fuction of UFg on a Semi-Commercial Scale. Investigation of the<br>Lloy Capability of Uranium - 1942, in collaboration with others.                         |
|      | culation of the Separation Effect and the Construction of Various<br>rrangements of Centrifuges - 1942, in collaboration with Jensen.                       |
|      | nection Between the Construction and Separation Ability of Low<br>ressure Column - 1942, in collaboration with Jensen & Suhr.                               |
| The  | Production of Heavy Water - 1942, in collaboration with Suess.  |
| Ĩ    | aration of U. Isotopes by the Ultra Centrifuge III Enrichment of<br>enon & U Isotopes (by the balance method) - 1943, in collaboration<br>ith Groth & Suhr. |
| Fre  | Atoms in Photo-chemical Reactions in "Naturwissenschaften" 1943.  |
|      | Stron and Positron Spectra of Radio-Arsenic — in collaboration with shaeffer.<br>834021 - 1412  |



GERIANY before 1946 HARTECK, PAUL Prof. B. 20 July 1902. Educated Univ. Vienna and Berlin. Physical chemist BIR 1948 CLA P-461

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# 241850

#### CIA BIOGRAPHIC REGISTER

| <u>Name:</u> KORSCHING, Dr. Horst<br><u>Variant:</u>  | Case No. 8061187<br>Date: 30 August 1948    |
|---|---|
| Present Position: Member Max Planck<br>Institute, AVA; Göttingen<br>Location: Business - Max Planck Institute | Birthdate: 11 Aug 1912<br>Birthplace:       |
| Göttingen Private - Bunsenstrasse 17, Göttingen<br>Gen. Occupation: Physicist                                 | Nationality: German                         |
| Education: Ph.D   |   |
| Languages:  | Marital Status: Bachelor<br>Name of Spouse: |
| Honors:   | Children:                                   |
| Publications;   | Religion;                                   |
|   | Political Affiliation:                      |

Dr. Horst Korsching, German experimental physicist, is presently (August 1948) a member of a group of nuclear physicists working at the University of Göttingen under the program for the control of scientific research which is being administered by the Control Commission in Germany. 1/

Based on a survey of his prewar work only, Korsching was rated by U.S. sources at the beginning of the war as very close to the top in his field. 2/ As an assistant at the Kaiser Wilhelm Institute for Physics, Berlin-Dahlem, during the war 3/ Korsching did some experimenting with the Clusius separator tube applied to liquids. 4/ In 1945 stated that Korsching was not a brilliant physicist but that he was a very good experimenter and had some very good ideas on the separation of isotopes.

Korsching was picked up by U.S. forces in the closing days of the war and shortly after V-E day was sent to England with other German personnel. 6/ During this period he was described as a complete enigma, morose, surly, and rarely opened his mouth. Politically, **Sector** Korsching was always neutral. 5/ In 1945 he often indicated annoyance at the anglophile attitude of some of his fellow workers and was reported as disinclined to work for the Allies but at the same time evidenced that he was not pro-Russian. At one time Korsching considered the possibility of going to Argentina to work on uranium. 8/

834021-1414 Approved for Releast Date -1

Although Dr. Korsching has a good knowledge of the working problems of the German project 4/ and was originally included among those scientists whose denial to a potential enemy.nation was recommended, 3/ he more recently has been described as a reliable routine experimenter of no particular value to the U.S., the United Kingdom, or other nations. 9/

| ŀ              | IAC | Agency,   | Washington, D.C., 9 Aug 48 |
|----------------|-----|-----------|----------------------------|
| 2/             | ŧ   | u u       | " undated                  |
| 3/             | Ħ   | n         | 11 11 24 Sep 47            |
| 4/             | N   | <br>N     | n undated                  |
| 5/             | N   | Ħ         | n 7 Sep 45                 |
| <b>2</b><br>6/ | Ħ   | ţi j      | n N Way 45                 |
| _<br>7/        | n   | <b>tt</b> | n 17 July 45               |
| 9/             | M   | n .       | N AUE 45                   |
| ے<br>م         | n   | <b>11</b> | n n 19 Dec 47              |

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83:021-1415



## PUBLICATIONS OF DR. HORST KORSCHIDIG

#Separation of Liquid Mixtures (Zinc & Deuterium)# 1939 in collaboration with Wirtz,

"Thermal Diffusion in Liquids" 1939 in collaboration with Wirtz.

"Separation of CCI,-Hexane, Separation of Hydrogen Isotopes and Liquid Thermal Diffusion" 1939, 1940 in collaboration with Wirtz

"Separation of Heavy & Light Benzene by Thermal Diffusion in the Liquid Phase" 1941

"On the Synthesis of Metallic Uranium by Electrolysis" 1941

"The Question of the Isotope Effect in Thermal Diffusion in Liquid Phase" 1942

"Status of Measurements on 19 May 1943 (Isotope Separation Apparatus)" 1943



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GERLANY before 1946 KORSCHING, HORST Ph\_D. Experimental physicist. BIR 1948 CIA P-465

834021-1417

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CENTRAL INTELLIGENCE AGENCY WASHINGTON 25, D. C.

22 September 1948

MEMORANUM FOR: Director, Joint Intelligence Objectives Agency Joint Chiefs of Staff

ATTENTION: Col. R. D. Wentworth, USAF

SUBJECT: Information Concerning German Scientists

REFERENCE: Memorandum from Director, JIOA, subject as above, dated 9 August 1948, JIOA 2775

Transmitted herewith in response to your request contained in reference above are reports covering the following individuals:

| Dr. Otto HAHN             | Dr. Kurt DIEBNER     | 1.1   |
|---------------------------|----------------------|-------|
| Dr. Werner HEISENBERG     | Prof. Walter GERLACH | [     |
| Prof. Karl_von_WEI2SACKER | Dr. Paul HARTECK     | 177,8 |
| Dr. Erich BAGGE           | Dr. Fritz STRASSMAN  | i     |
| Dr. Horst KORSCHING       | Dr. Herman BEUTHE    |       |
| Prof. Max von LAUE        | Dr. Josef MATTAUCH   |       |
| Dr. Karl WIRTZ            | Dr. Erich FISCHER    | 1     |
|                           | 00                   | 1     |

maulebaun NORMAN C. CAUK

Colonel, U.S. Army Deputy Assistant Director Office of Collection and Dissemination

NIE See JIOA 2775 dtd 9 Aug. 1948 to CIA FILE DIST: 363.7 Central Intelligence Agency 383.7 Nuclear Physicists reproved for Release 3332 Date 834021-46



## 22 September 1948

| MEMORANDUM DOR: | Director, Joint Intelligence Objectives Agency<br>Joint Chiefs of Staff             |
|-----------------|---|
| ATTENT ION :    | Col. R. D. Wentworth, USAF  |
| SUBJECT :       | Information Concerning German Scientists  |
| REFERENCE       | Memorandum from Director, JIOA, Subject as<br>above, dated 9 August 1948, JIOA 2775 |

Transmitted berewith in response to your request contained in reference above are reports covering the following individuals:

| Br. Otto RADI             | Dr. Kurt Stanza          |
|---------------------------|--------------------------|
| Dr. Worner ME ISENSING    | Prof. Walter (Prof. anti |
| Prof. Karl web WEISSACHER | Dr. Paul Hitter          |
| Ur. Brich BAGOR           | Dr. Prits STRASSMAN      |
| Dr. Horst KORSCHING       | Dr. Herman BBUTHE        |
| Prof. Max yon LAUE        | Dr. Josef Mittauch       |
| Dr. Karl WIRT2            | Dr. Brich FISCHER        |

|         | KORMAN C. CAUN                  | `                        |
|---------|---------------------------------|--------------------------|
|         | Colonel, V.S. Argy              |                          |
|         | Departy Assistant Director      |                          |
| office_ | of Collection and Dissemination | ···· · · · · · · · · · · |

| See JIOA ;                                   | 2775 dtd 9 Ang.                              | 1948 to CIA  |
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| SECRES                                       |  | 3332   |
| Date   | or kelease<br>NOV 1985                       | 13-9-1-1356  |
|  | PILE DIST:<br>383.7 Centrel<br>383.7 Nuclear | 383.7 Central Intelligence Ag<br>383.7 Muclear Physicists<br>SECREP<br>Approved for Kelease<br>Date NOV 1035 |



241850

#### CIA BIDGRAPHIC REGISTER

| <u>Næme:</u> MATTAUCH, Dr. Joseph<br><u>Variant</u> :<br><u>Alias:</u> |                                | <u>Case No</u> . 8061242<br>Date: 19 July 1948 |
|--|--------------------------------|--|
| Present Position: Research at KWIC,<br>Tailfingen                      | Birthdate:<br>Birthplace:      | 1895<br>Austria                                |
| Location: Tailfingen   | Nationality:                   | German   |
| Gen. Occupation: Nuclear chemist                                       | Race:<br>Sex:<br>Marital State | White<br>Nale<br>15:                           |
| Languages:   | Children:                      |  |
| Honors:  | Religion:                      |  |
| Publications:  | Political Af                   | filiation:                                     |

Ir. Joseph Mattauch, German nuclear chemist and former assistantdirector of the Kaiser Wilhelm Institute for Chemistry in Berlin 1/, was rated as one of the top personalities in the German nuclear research program based only on his prewar record. 2/ A specialist in the field of mass spectrographs, 3/ he came to the Institute in 1939 from Vienna and brought with him his double focusing precision mass spectrograph which was used as a model for a new one. 1/

In October 1943 Mattauch collaborated with A. Flammersfeld on a paper "On a pressure generator now in construction and the possibilities of its use" presented by the former in a lecture at the KWIC in Berlin-Dahlem. Mattauch also lectured at that time "On the use of Inactive Isotopes as Indicators". 1/

He was slated for transfer from the KWIC, Tailfingen to Mainz University to take over the chair of inorganic chemistry in the fall of 1946. His work there was to be primarily concerned with KWIC research but the University itself was not to be affiliated with KWIC. 2/

In January 1947 he left for Switzerland for reasons of ill health and as of June 1947 he was still at Lugano, Switzerland. 3/

Approved for Beleges

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| ATTAUCH. | Dr. | Joseph, | contd. |
|----------|-----|---------|--------|
|----------|-----|---------|--------|

| Mattauch has | written | മമാഴ | articles | some | of | which | are | listed | below: |
|--------------|---------|------|----------|------|----|-------|-----|--------|--------|
| Racoauon non |         | •    |          |      |    |       |     |        |        |

In collaboration with Hahn and Fluegge, "Isotope Weights and Packing Fraction Curve".

"The Number of Neutrons Occuring in the Fission of U-235 and U-238", 1940.

In collaboration with Fluegge "Nuclear Physics Tables", 1942

"Measurements of Relative Frequencies of Isotopes", 1943.

"The Chemical Elements and Natural Isotopes According to the State of Research on Isotopes and Nuclei", (Report on papers from end of 1937 to end of 1939), 1940 in collaboration with Hahn and Fluegge.

"Reports on Isotopes", 1940-41-42-43, in collaboration with Fluegge.

"On a New Method of Measurement of Relative Abundances of Isotopes. Isotopic Constitution and Atomic Weight of Eafnium", 1943 in collaboration with Ewald.

"Isotopic Constitution and Atomic Weight of Neodymium, Samarium, Tungsten", (not published). 1/

In December 1947 it was reported that Prof. Mattauch and Prof. Strassman were continuing the work of Hahn and Heisenberg at the KWI in Tailfingen and that it was planned that the KWI at Tailfingen would be moved to Mainz University in the spring of 1948. 3/

| IAC Agency, | Washington, | D.C. undated,           | (Secret)                             | · ·  |
|-------------|-------------|-------------------------|--------------------------------------|--|
| IAC Agency, | Washington, | D.C. undated            | (Secret)                             |  |
|             |             |                         |                                      |  |
|             | IAC Agency, | IAC Agency, Washington, | IAC Agency, Washington, D.C. undated | IAC Agency, Washington, D.C. undated, (Secret)<br>IAC Agency, Washington, D.C. undated (Secret)<br>IAC Agency, Washington, D.C. undated (Secret) |

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CIA BIOGRAPHIC REGISTER



## 241859

## Case No. 8030683 Name: BEUTHE, Dr. Hermann Date: 23 August 1948 Variant: 20 Sept. 1897\_\_\_ Birthdate: Present Position: Rudolstadt/Thuringia Birthplace: Location: Reportedly Ronneburg, Nationality: German Thuringia-Gen. Occupation: Physicist Race: White Sex: Male Education: Ph.D Marital Status: Married Name of Spouse: Languages: Children: Honors: Religion: Publications: Political Affiliation: Nazi Party Member Dr. Hermann Bouthe was the German wartime Deputy Director, under Essu, of nuclear phsycis research of the Reichsforschungsrat (RFR --National Research Council) and the Director of the Physikalisches Rechnisches Reichsanstalt (PTR -- German Bureau of Standards). 1/ Politically a Nazi Party member, Bouthe was an officer both in the SS (SS No. 15403) and in the SD (Sicherheitsdienst -- the Security Service - comparable to our Counter Intelligence Corps) with the rank of "Haupt Sturmfuehrer" (Captain) as early as April 1940. 2/ [ANALYST'S COMMENT - This rank indicates that Bouthe was a member of the Elite Guard and with that early date of rank it is probable that he had advanced considerably through the ranks by V-B Day. As Director of the PTR, Beuthe was connected with both betatron and cyclotorn design in March 1943 and as Essa's Deputy he was familiar with all phases of German nuclear research and was particularly interested in atomic pile research in February 1944. 1/ Scientifically, Beuthe was given very high rating by U.S. forces in the closing days of the war. This rating, however, was made more for his overall knowledge of the German atomic energy project than for his scientific preeminence. 2/ Since that time he has been described as an undistinguished, though competent, physicist, 4/ and it has been stated that his value to the Germans was as an organizer and informer rather than as a scientist. 5/ Approved for Release Date 83-12-1359



#### BEUTHE, Dr. Hermann contd.

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Arrested in 1945 by the Russians Beuthe was interned at Weida in Thuringia but it is reported that he was recently released and is residing in Ronneburg. It is not improbable that he is engaged in work for the Russians. 5/\_\_\_\_\_

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 IAC Agency, Washington, D.C., undated.

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Approved for Release: 2022/06/22 C00010786

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CENTRAL INTELLIGENCE AGENCY WASHINGTON 25, D. C.

4 Jugart 1948

REMOFANDUM FOR: J.I.O.A., THE JOINT CHIEFS OF STAFF

ATTENTION: Colonel R. D. Kentworth, GSC

SUBJECT: Information Concerning 19 German Scientists

1. Delivered herewith, by Mr. Lilbers of the Biographic Register, CIA, are biographic sketches of the 19 German scientists concerning whom information was requested by J.I.O.A. in its memorandum dated May 4, 1948. It is regretted that it has taken so long to pull this information together, but it should be noted that other jobs assigned to the Register by J.I.O.A. during the same period were given higher priority.

2. The biographic sketches do not include independent evaluations by CIA of the importance of each individual. Based on our conversation of this morning, it is my understanding that J.I.O.A. wished to compare the evaluations of these men prepared by each of the several IAC agencies, the that J.I.O.A. has an addy received such evaluations directly from and that J.I.O.A. has an addy received such evaluations directly from Army, Navy, Atomic Energy Combission and Research & Development Board.

3. Trensmitted with the exetence is a facsizile of a letter received by CIA from the Air Hateriel Command. This gives certain information which any be of a las in arriving at the evaluations desired by J.I.O.A.

4. This Office will be most grateful for such cooperation as J.I.O.A. may be able to extend in order that the date from the other agencies concerning these scientists may be incorporated in the files of CIA.

-40 480m 19= FILE DIST: C/R CIA JAMES M. ANDREUS DAR NUCLE Assistant Director Office of Collection and Discemination closures & Approved for Release NOV 1985 Date 🔮 2725 83+021-1426





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| Name: BONHOEFFER, Karl Friedrich<br>Variant:<br>Alias:  | Case No. 70113%6<br>Date: 19 July 1948   |
|---|--|
| Present Position: Univ. of Berlin<br>Location: Berlin Nikolasse,<br>Kirchweg 26<br>Gen. Occupation: Physical chemist<br>Education: Ph.D. at Univ. of<br>Berlin 1922<br>Languages:<br>Honors:  | Birthdate: 13 January 1899<br>Birthplace: Breslan<br>Nationality: German<br>Race: White<br>Sax: Male<br>Married<br>Name of Spouse:<br>Children:                    |
| Publications:   | Religion: Protestant   |
| Dr. Karl Friedrich Bonhoeffe  | r, repeatedly rated as one of  |
| the best German scientists 1/2/ wa<br>as being at the University of Berl<br>The son of a femous German per<br>Bonhoeffer has been described as h<br>not very courageous and not a figh  | as last reported (November 1947)<br>lin in the Russian Zone. 2/<br>sychiatrist and neurologist,<br>nonest and intelligent, but<br>hter. He attended the Gymnasium, |
| the best German scientists 1/2/ we<br>as being at the University of Berl<br>The son of a femous German pe<br>Bonhoeffer has been described as h<br>not very courageous and not a fig<br>graduated and then served as a vol<br>the First World War. 1/ Later he<br>Berlin where he received his doctor<br>was an assistant professor at the  | as last reported (November 1947)<br>lin in the Russian Zone. 2/  |
| the best German scientists 1/2/ wa<br>as being at the University of Berl<br>The son of a femous German per<br>Bonhoeffer has been described as h<br>not very courageous and not a figh<br>gradmated and then served as a vol<br>the First World War. 1/ Later he<br>Berlin where he received his doctor<br>was an assistant professor at the<br>Physics. Bonhoeffer was a full Pr<br>at the University of Frankfurt/Ma<br>was appointed to that same position | as last reported (November 1947)<br>lin in the Russian Zone. 2/  |

Reportedly not a Nazi 6/ Bonhoeffer at the beginning of the Nazi rule was demonstratively philosemetric. 1/

> Approved for fielesse Date

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BUNHCEFFER, Karl Friedrich

After the war-from-1945-to-1947-Bonhoeffer was reportedly at the University of Leipzig doing research and especially working on the Theory of Mechanism of Propagation of Nervous Impulses. 5/

In June of 1947 Bonhoeffer was granted leave reportedly from the University of Berlin and traveled through England on an escorted tour of various laboratories. It was at this time that he evidenced an interest in "nerve physiology", 7/

Otto Hahn has tried to get him to join the group at Göttingen but he has declined since his family is in the Russian Zone of Berlin and thus cannot effect the transfer. 8/:

It was recently (February 1948)-reported that Bonhoeffer like of would visit the U.S. 2/ but as yet he has not arrived. how Down of A 1448

IAC Agency, Washington, D. C., 18 September 1944 (Secret) 1/ 2/ IAC Agency, Washington, D. C., 12 February 1948 (Secret) Foggendorff Lexikon, 1935 3/ LAC Agency, Washington, D. C., 19 November 1945 (Secret) 4/ IAC Agency, Washington, D. C., undeted (Secret) 5/ 6/ IAC Agency, Washington, D. C., undated (Secret) -LAC Agency, Washington, D. C., 4 June 1947 (Secret) 7/ IAC Agency, Washington, D. C., 5 May 1947 (Secret) 8/

834021-1431


BIOGRAPHIC REGISTLR

Name: BOTHE, Dr. Walther Variant: Alias: Case No. 7003277 Date: 19 July 1948

| Present Position: Director, Physics<br>Inst. KWI for Med. Research, Heidel-     | Birthdate: <sup>8</sup> January 1891<br>Birthplace: Oranienburg |
|---|---|
| Location: Im-Baeckerfeld, No 6, Darg<br>Heidelburg<br>Gen. Occupation: Physicst | Nationality: German   |
| Education: Fh.D., Univ. of Berlin,  | Race: White<br>Sex: Male<br>Marital Status: Married             |
| Languages: English  | Name of Spouse:<br>Children: Two daughters                      |
| Eonors:   | Religion: Evangelical   |
| Publications:   | Political Affiliation: Reportedly not                           |

Dr. Walther Bothe, world famous German nuclear physicist 1/, was last reported as Director of the Physics Institute of the Kaiser Wilhelm Institute for Medical Research at Heidelberg. 2/

Bothe, whose father was a business man, has been married since 1926 to the daughter of a Russian emigrant. He attended the Gynnasium, graduated and later studied physics at the University of Berlin where he received his Fh.D. in 1914. Bothe then became an assistant at the PTR (Physikalisch-Technische-Reichsanstalt) in Berlin 3/ and in 1929 became Director of the Department of Radio-Activity there. 4/ During this period Bothe also was an Instructor at the University of Berlin (1925) and an assistant Professor at the same university (1929). 5/ From 1930 to 1932 he was a full professor at the University of Giessen and from 1932 to 1934 held a similar position at the University of Heidelberg. 5/ He lost his professorship there in 1934 when that school became a Naži stronchold. Instead he got a post at the Kaiser Wilhelm Institute for Medical Research, also located in Heidelberg, where party policies did not have such a strong influence. 7/ Bothe held the position of Director of the Physics Institute of the KWT at Heidelberg until the end of the war. 8/

He was rictured by an informant in 1944 as a typical German professor in habits and appearance. Bald, pink-faced, mustached, five foot, seven inches in height and of medium build, Bothe was described as intelligent, honest, very emotional and benevolent. He dressed conservatively in dull suits, straight ties and high stiff collars. Possessing a genial personality, Bothe amokes cigars but does not drink, enjoys playing the piano and has no outdoor life. 3/

Date .



83-021-1432



BOTHE, Dr. Walther

Politically Bothe was a loyal German but never a Nazi. 7/ His anti Nazi sympathies have been repeatedly reported 3/, 7/, 8/9/ and he intervened very courageously in favor of his colleagues in occupied countries when they were in trouble with the German authorities. When Langevin, Borel, Cotton and Lapique were arrested by the Gestapo in Paris, he rushed to that city and obtained their release. According to one informant it is due to a fairly large extent to him that a part of the European scientists who were disliked by the Nazis could be saved. 3/

Scientifically Dr. Bothe was rated during the war at the very top of his field based only on a survey of his prewar work 10/ and since that time his position as one of the leading German nuclear physicists has been repeatedly confirmed 1/, 3/, 8/, 11/, 12/. Bothe has been involved in nuclear physics research for a long time. In 1921 he joined H. Geiger in the Department of Radio-Activity in the PTR working on joint analysis of Compton effect and coincidence time of scattering quantum and scattering electron. Bothe succeeded Geiger as Director of that Department and in 1929 or 1930 he discovered the artifical nuclear gamma radiation emanating especially from Li, Be, B as a result of the irradiation of the elements by alpha particles from Po. 4/ A specialist in the field of optics, radiology, cosmic rays and biological physics. 12/ During the war in collaboration with Gentner he designed the cyclotron, did research on betatron and nuclear reactions and was intimately connected with pile development. 8/

Bothe was picked up at the Physics laboratory of the KWI for Medical Research in Heidelberg in March 1945 by U.S. forces. Bothe greeted U.S. representatives and told about some of the research done in the KWI. He showed reprints, proofs and manuscripts of the wartime papers which were written under his direction and proudly displayed the cyclotron but when questioned about research on war problems Bothe made it very clear that he could not reveal any secrets at that time. He denied having any secret papers and claimed to have burned everything as he was ordered. A thorough investigation by counter-intelligence agents failed to disprove his statements. Bothe was reported as a man of his word and utterly trustworthy, and did not divulge any "secrets" until after V-E day. In July 1945 he submitted a report giving a survey of his war research on the uranium problem. 7/

Later Bothe was made scientific adviser on the FIAT Scientific Committee and in this capacity he submitted lists of personnel whom he thought should be used in processing the review of German science. 13/ Bothe himself was the Senior Author of the "FIAT Review of German Science 1939-1946" Vol. 1. 8 / He refused a "Paperclip" contract to work in the United States because he did not desire employment by the War Department but stated that he would accept a private contract with a University or some private industry. 1 / The United States Navy had requested the utilization of Bothe and his name was included in the highest category of personnel whose utilization by a potential enemy nation would be dangerous to the welfare of this nation 1/ but it developed that, in addition to an unfavorable recommendation on the part of one agency 14/ Bothe



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BOTHE, Dr. Walther

was included in a list of German scientists to remain in Germany.

Bothe is now doing-research at the KWI for Medical Research as Director of the Physics Laboratory of the Institute. Sorely in need of books and journals he hopes to get the FIAT Library which is unused at Karlsruhe. Rebuilding is very slow and about 80% of the equipment is missing. Bothe has a wan de Graaf generator which will soon go into operation and the cyclotron. He has obtained permission from Military Government to use the cyclotron for the production of radio active materials for medical research. Bothe states these will probably be short-lived elements which could not be transported from the U.S.A. and he is counting on the U.S. for the longer lived elements. He has four assistants and a few doctoral candidates, but Bothe now along in years reportedly "seems tired" and has to spend most of his time in administration and teaching. 16/

The following are some of the articles which Bothe has written: "Diffusion Length of Thermal Neutrons in Carbon,"(1940) "Rigorous Treatment of Diffusion in Absorbing Matter." (1940) "Evaluation of Pile w/Reflector" (1940) "Rules for Indicator Measurements." (1940) "Survey of Finite Piles." (1940) "Quantitative Analysis of 3 Samples of Ur. Preparation" (1938) & (1940) Wethod of Measuring Diffusion of Neutrons. # (1940)

# "Energy of Uranium Fission Neutrons." In collaboration with Gentner; Research Rpt. (1940)

"The Absorption of Thermal Neutrons in Carbon." In collaboration with Jensen. "A Few Properties of Ur. and Moderators." (1941)

"Article on Elementary Particles."

"Resonance Capture on the Surface of U Metal." (1941)

\*Resonance Capture on the Surface of U<sub>3</sub>O<sub>6</sub>. (1941) \*Resonance Capture on the Surface of U<sub>3</sub>O<sub>6</sub>. (1941) \* Measurements on a Mixture of Ur. Ox & Water. The Augmentation Factor X and the Resonance Capture W." Research Rpt, (1941) In collaboration with

Flamersfeld. "Neutron Increase for Fast and Slow Neutrons" in 1938. "Diffusion Length" in 1938 - "Netal and Water" in 1941.

\*Effective Cross-Section of U. for Thermal Neutrons from Diffusion Yeasurement." (1941)

\*Absorption of Thermal Neutrons in Electrographite.\* (1941)

"Absorption of Thermal Neutrons & Increase of Fast Neutrons in Beryllium" (1941 "Machines for the Utilization of Fission by Fast Neutrons." (1942)

"Remarks on the Leipzig D<sub>2</sub>O Experiments." (1942) "The Velocity of Neutrons in a Slowing Down Medium." (1942)

"The Increase of Fait Neutrons in Uranium,"-(1942)

"Radiation Shielding." (1942)

"Radiation Shielding Walls." (June 43)

\* Unpublished.

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BOTHE (CONTINUED)

"Research Tools of Muclear Physics." (1943) "Technique of Neutron Probes" (1943) "Layer Experiments W/Variation in the Thickness of Uranium and D O." To collaboration with Bunfar (Dec 19/3) 2 In collaboration with Funfer (Dec 1943)

\* "Three Reports on Berlin Pile Experiments B-6, 7." (1944) (1945)

"A Few Simple Relations in Experiments on Neutron Increase," (1945) "Experiment with 1.5 tons D<sub>2</sub>O and Uranium & a 40 cm. Carbon Reflector." In collaboration with others. (1945)

\*Unpublished

| IAC      | Agency,    | Washington  | , D.C.     | (Secret)     | (3 June 47)  |
|----------|------------|-------------|------------|--------------|--------------|
| n        | n          | #           |            | n            | (12 Feb 48)  |
| Ħ        | M          | Ħ           | u          | 1            | (Sept 44)    |
| ¥ .      | <b>t</b> t | tt 👘        | ·          | • 11         | (21 May 46)  |
|          |            | Lexikow     | N          | 11           | (1936)       |
| IAC .    | Agency,    | Washington  | , D.C.     |              | (22 July 46) |
| ARSO     | S, Samu    | el A. Gouds | mit, Pu    | b. H. Sch    | uman,        |
| IAC .    | Agency,    | Washington  | , D.C.     | (Secret)     | (Undated)    |
| 11       | N          | · n         | <u> </u>   | <u> </u>     | (June 44)    |
| <b>第</b> | <b>11</b>  | ti .        | , N        | u            | (Undated)    |
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| ă.       | n          | . <b>N</b>  | V          |              | (24 June 46) |
| 1        | n          |             | N          |              | (17 Apr 46)  |
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| ĸ        | X          | . <b>ti</b> | u .        | ddin 🖬 👘 👾 d | (21 Feb 47)  |
| 2        | H.         | · N · · ·   | . N        | <b>d</b>     | (12 Feb 48)  |

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BIOGRAPHIC REGISTER

| Name: BEYERLE, Dr. Karl                 | Case No. 3010551       |
|---|------------------------|
| Variant:                                |                        |
| Alias:                                  |                        |
|   |                        |
| Present Position: Presently in charge   | Birthdate:             |
| of Instrumentenbau. KWI                 | Birthplace:            |
| ···                                     |                        |
| Location; Bunsen Strasse 10, Gettingen  | Nationality: German    |
| Doravien, Dansen of door boy to the Bon |                        |
| Gen. Occupation: Engineer               | Race: White            |
|   | Sex; Male              |
| Education:                              | Marital Status:        |
| EddCavion;                              | Name of Spouse:        |
| <b>*</b>                                |                        |
| Languages:                              | Children:              |
| · ·                                     | <u>Ourraren</u> :      |
| Honors:                                 | n.h/_/                 |
|   | Religion:              |
| Publications:                           |                        |
|   | Political Affiliation: |
| -                                       |                        |

Dr. Karl Beyerle is one of the German experts on centrifuges. 1/ An engineer by profession he worked in Hamburg 1/ and later in February 1945, at the Anschutz firm in Kiel. 2/

In 1944 Beyerle was a consultant of Fleischmann in connection with a project to measure more accurately the speed of slow neutrons and the absorption by various elements of such moving neutrons. 3/

After the war, in September 1946, Beyerle was reported as being one of the German scientists believed to be in Russia 4/ but this report proved to be erroneous and he was probably being confused with Beierl who is reportedly in Russia. 1/

Dr. Beyerle was last reported as being in charge of Instrumentenbau, a section of KWI charged with the manufacture of instruments. His unit is to produce for KWI groups instruments where industrial enterprises will no longer aid. In July of 1947 they were doing research on mechanical and accoustical techniques, electrical measurements, construction of amplifiers, electron microscopes, and optical and heat measuring. 5/

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BEYERLE, Dr. Karl (cont.)

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In December 1947 Beyerle was included in a list of German scientists who were thought to be the outstanding men in the field of nuclear research. 6/

| <u>1</u> / | IAC Agency, Washington, D. C., 5 August 1947 (Secret)    |
|------------|--|
| 2/         | LAC Agency, Washington D. C. D.                          |
|            | LAC Agency, Washington, D. C., February 1945 (Secret)    |
| 2/         | IAC Agency, Washington, D. C., 17 March 1945 (Secret)    |
| 4/         | TAC American Maria and Tac and Type (Secret)             |
| -          | IAC Agency, Washington, D. C., 1 September 1945 (Secret) |
| 5/         | IAC Agency, Washington, D. C., 16 July 1947 (Secret)     |
| ~          | Secret)  |
| <u>6</u> / | IAC Agency, Washington, D. C., 19 December 1947 (Secret) |
|            | Secret)  |



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| Name: DICKEL, Gerhard Hans<br>Variant:<br>Allas:   |   | Case No.<br>Date:   | 8030788<br>19 July 1944 | 3  |
|--|---|---|-------------------------|--|
| Fresent Position: Reportedly Prof.,<br>University of Munich<br>Location: Munich  | Birthdate: 1<br><u>Birthplace</u> :   |   |                         |  |
| Gen. Occupation: Physical chemist  | Nationality:  | German  |                         |  |
| Education:   | Race:<br>Ser:<br>Marital Statu  | Male  | <u> </u>                |  |
| Languages;   | Name_01 Spous   | e:<br>-   |                         | n an |
| Honors:  | Children:   |   |                         |  |
| Publications:  | Religion:   |   |                         | •  |
|  | Political Aff   | Iliation;   |                         |  |
| <pre>water. 1/ Based on an analysis of his<br/>emong the very top German theoretical<br/>that his scientific specialties at the<br/>Uranium, Isotopentrengnung, Trennrohry<br/>and Chlorisotop. 2/<br/>In addition to contributing artic<br/>in 1936 and 1939, 2/ Dickel is also th<br/>"Results of Operation of Sep. Col<br/>"Preliminary Experiments on Choic<br/>of a Washing-out Process for Isot<br/>"Effect on the Performance of the<br/>Centering and Insertion of Discs"<br/>"A New Procedure on Isotope Separation<br/>"A New Procedure on Isotope Separation"</pre> | Invsicists. 1<br>at time were Generic fahren Bei F<br>les to Naturwi<br>a author of th<br>umn".<br>e of U_salt for<br>ope Separation<br>Wire Separati<br>, 1942. 1/ | t was indic<br>asentaischun<br>lussegkeite<br>ssenschafte<br>e following<br>r Developme<br>", 1940-41.<br>on of the | n<br>pepers:            |  |
| 1/ IAC Agency, Washington, D. C., unde   | ated (Secret)   | i <u>.</u>  |                         |  |
| 2/ IAC Agency, Washington, D. C., unds   |   |   |                         |  |
| 3/ IAC Agency, Washington, D. C., 19 I   | ecember 1947 (  | Secret)   |                         | · · · · · · · · · · · · · · · · · · ·    |
| •  | Approve<br>Date   | d for fielease<br>NOV 1985  | <b></b>                 |  |

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| Name: ERBACHER, Otto<br>Varient:<br>Allas:               | Date: 19 July 1948   |
|--|--|
| Present Position: Under contract<br>to Franch government | Birthdate: 9 February 1900<br>Birthplace: Neubeuern Am Inn   |
| Location: Tailfingen                                     | Nationality: German  |
| Gen. Occupation: Radio-active chemist                    | Race: White  |
| Education: University of Munich,<br>Ph.D. 1923           | Sex: Male<br>Marital Status: Married (family at<br>Freising) |
| Languages:   | Name of Spouse:  |
| Honors:  | Children:  |
| Publications:  | Religion:  |
|  | Political Affiliation:                                       |

1.3(a)(4)

Otto Erbacher, formerly at the Kaiser Wilhelm Institute to the isotopes, Chemistry in 1939 and a specialist in the chemistry of radio-active isotopes, 1/ A former co-worker and 1/ A former co-worker and associate of Otto Hahn. Although he has not worked with protoactinium since 1929 when in constooration atthough he has not worked with protoactinium since 1929 when in constooration

Although he has not worked with protoactining show any joachimstal material with Kalding and von Grosse he processed a carload of Joachimstal material for it 2/, he has written a recent article on the "Chemistry of Protoactinium and Isotopes" 3/. Erbacher was at Tailfingen during the latter days of the war 3/ and has been on leave since 1946. It was reported that he had tuberculosis but that he expected to return to work early in 1948. 2/

In December 1947 Erbecher was included in a list of German scientists who were thought to be outstanding in the field of muclear research. 4/

1/ IAC Agency, Washington, D. C., 3 July 1947 (Top Secret)
2/ IAC Agency, Washington, D. C., 15 December 1947 (Confidential)
3/ IAC Agency, Washington, D. C., 24 December 1947 (Confidential)
4/ IAC Agency, Washington, D. C., 19 December 1947 (Secret)

Approved for Release Date <u>NOV-1985</u>

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| Name: HUXEN, Frof. Arnold<br>Variant:  | Case No. 8010556<br>Date: 19 July 1948          |      |
|--|---|------|
| Alias:<br>Present Position: Lecturer, Univ.<br>of Gottingen<br>Location: Buel Str 289, Göttingen |   |      |
| Gen. Occupation: Physical Chemist  | Nationality: German<br>Race: White              |      |
| Education: Ph.D., Univ. of Berlin,<br>1907   | Sex: Male<br>Marital Status:<br>Name of Spouse: |      |
| Languages:   | Children:                                       | <br> |
| Honors:  | Religion: Protestant                            |      |
| Publications:  | Political_Affiliation:                          |      |

Prof. A. Eucken, German physical chemist and editor of Die Naturwissenschaften, was last reported as a lecturer at the winter semester 194/-40 at the University of Göttingen on "Introduction to Physical Chemistry and Molecular Dynamics on the Basis of Spectroscopy. 1/

Son of the later German philosopher Rudolf Eucken, he has a younger brother Walter who is a professor of Economics at the University of Freiburg in Breisgan. Reportedly not an outspoken Nazi, Eucken still is strongly nationalistic and considered very embiticus. It has been stated that Eucken has a tendency to overestimate his personal has been stated that Eucken has a tendency to overestimate his personal value somewhat and, though distant from the common people, is a great epportunist as far as his personal career is concerned. 2/

In December 1947 Encken was included in a list of German scientists who were thought to be the outstanding men in the field of nuclear research. 3/

1/ Physikalische Blatter, Heft 10, 1947

2/ IAC Agency, Washington, D. C., 1943 (Secret)

3/ IAC Agency, Washington, D. C., 19 December 1947-(Secret)

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#### BIOGRAPHIC REGISTER

| Name: FLEISCHMANN, Prof. Dr. Rudolf<br>Variant: FLEISCHMANN, Arthur Rudolf Wil<br>Alias: | Case No. 8010553<br>Lhelm Date: 19 July 1948             |
|--|--|
| Present Position: Director of Physics<br>Institute, University of Hamburg                | Birthdate: 1903, 1 May<br>Birthplace: Erlangen           |
| Location: Hamburg 36<br>Jungiusstrasse 9, Germany  | <u>Nationality: German</u><br><u>Race:</u> White         |
| Gen. Occupation: Nuclear physicist   | Sex: Male<br>Marital Status: Unmarried                   |
| Education: Ph.D. Erlangen, 1929  | Name of Spouse:  |
| Languages:   | <u>Children</u> :  |
| Honors:  | Religion: Protestant                                     |
| Publications:  | Political Affiliation: _ Reportedly<br>an "extreme Nazi" |

Prof. Rudolf Fleischmann, well known German nuclear physicist and colleague of Prof. Bothe, is presently the Director of the Physics Institute at the University of Hamburg. 1/

The son of Albert Fleischmann, Professor of Zoology at the University of Erlangen, Rudolf studied at Erlangen and the University of Munich, 1922 to 1926. 2/ He then worked on his doctorate under Prof. B. Oudden and received his degree 25 July 1929. From March 1930 to October 1932 he worked in the First Physics Institute of the University of Gettingen with Prof. Pohl and from October 1932 to May 1934 he was a regular assistant 2/ to Prof. Bothe 1/ at the Philipp Lennard Institute (formerly the Physio-Radiology Institute) of the University of Heidelberg. On 1 May 1934 he was appointed assistant to Prof Bothe at the Institute for Physics of the Kaiser Wilhelm Institute. for Medical Research at Heidelberg, a position he held until 1941 3/ when he was appointed a part time professor at the University of Strasbourg. 1/ It was here that Fleischmann was seized in November 1944 by U.S. forces, interrogated and sent to the U.S. as a prisoner of war. 4/ At the time of his capture, he was described as an "extreme Nazi" and not cooperative. He maintained his work was of a fundamental nature and covered exclusively application of induced radio-activity to biological research. 5/

Politically Fleischmann was a Nazi. A member of the party since 1933 his captured files contained a stenographic transcription of a speech given by Hitler in 1923 and a complete geneology back to his Ur-Ur-Eltern (greatgreat-grandpartents). He was probably but not certainly a member of the Reichforschungsrat under Gerlach. Records indicate he wrote to Gerlach concerning locations for an evacuation laboratory, received valve designs from Groth and was in constant communication with obvious members like Maurer. 6/

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FLEISCHMANN, Prof. Dr. Rudolf

Scientifically Fleischmann had been described as a high grade experimental physicist, a specialist in nuclear physics and methods of isotope separation. 4/ Based only on a review of his prewar work, he was rated during the wer close to the very top of his field 7/ and more recently was included among a list of the outstanding German scientists in the atomic energy field. 8/ Despite Fleischmann's claims that his research was fundamental, 5/ captured records indicate that he worked hard on separating UF using a separator-tube. He attended several meetings of great importance in March 1941, February 1942 and October 1943 at which many important nuclear physicists were present and lectured at the first meeting. 3/ Fleischmann also worked on a top priority research assignment for the Luftwatte and for the Reichsomt fur Wirtschaftsausbau (National Office for Economic Development) specifically, research into the application of miclear physics to the solution of problems. involving analytical chemistry. It was reported that in 1942 he had conferred also with Dr. Schieber, of the Ministry of Munitions, about his research program and especially to obtain permission to build a cyclotron.9/ It is interesting to note that Fleischmann in his article, "The Physics of the Atomic Nucleus and the Prospects for its Practical Application", (undated but probably 1942) stated "Experiments to date make it seem very probable that the uranium machine will work. Its principal advantage will be that the "fuel" will be consumed only very slowly. Thus .... it will be possible to give a ship .... a very great cruising radius .... At the moment it seems less likely that the uranium machine can be used as an effective bomb". 10/

He has published about thirty-five papers on nuclear physics and collaborated on some of these with Prof. Bothe, Wolfgang Gentner and Norline. 3/ (See attached list of articles.)

Fleischmann left the U.S. early in 1946 12/ and has held the chair of Physics in the University of Hamburg since May 1947. 11/

| States in case of the |  |
|-----------------------|--|
| 1/                    | IAC Agency, Washington, D.C., 21 January 1948 (Secret)   |
|                       | IAC Agency, Washington, D. C., 23 December 1944 (Secret) |
| 3/                    | IAC Agency, Washington, D. C., 12 February 1945 (Secret) |
|                       | IAC Agency, Washington, D. C., 29 January 1945 (Secret)  |
| <u> </u>              | IAC Agency, Washington, D. C., 15 December 1944 (Secret) |
|                       | IAC Agency, Washington, D. C., 18 June 1945 (Secret)     |
|                       | IAC Agency, Washington, D. C., undated (Secret)          |

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# FLEISCHMANN, Prof. Dr. Rudolf

- 8/ IAC Agency, Washington, D. C., 19 December 1947 (Secret)
- 2/ IAC Agency, Washington, D. C., 30 June 1945 (Secret) ----
- 10/ IAC Agency, Washington, D. C., November 1945 (Secret)
- 11/ IAC Agency, Washington, D. C., undeted (Secret)
- 12/ IAC Agency, Washington, D. C., 20 February 1946



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FLEISCHMANN, R.

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# Author of the following articles in German journals.

"Some constants and properties of UF6." (Source unknown.) "Cross-section of aluminum for thermal neutrons." (Source unknown.) "Measurement of vapour pressure of reactive substances. (A new application of the separator tube.)" Naturwissenschaften, Vol. 29, pp. 485-488 (Ang. 8, 1941). "Nuclei, radioactivity." Phys, in regelmass. Ber., Vol. 8, No. 1, pp. 17-48 (1940). (Survey of work on miclear reactions and isotope separation from 1935 to Nov. 1939.) "Enrichment of N<sup>1</sup>5 by the separation column method of Clusius and Dickel. Physikalische Zeitschrift, No. 41, pp. 14-15 (Jan. 1, 1940). "Absorption of slow neutrons in B and Li and the 1/v law." Zeitschrift für Physik, Vol. 108, No. 7-8, pp. 485-490 (1958). With "Neutron-induced Cd radiation." Zeitschrift für Physik, Vol. 111, F. Norling. -No. 5-6, pp. 201-291 (1938). "Effective cross-sections for slow neutrons." Zeitschrift für Physik, Vol. 105, No. 11-12, pp. 692-703 (1937). "Slow neutrons." Ergebnisse der erakten Naturvissenschaften, Vol. 16, pp. 1-46 (1937). With W. Bothe. "Recent results of experimental nuclear investigations." Zeitschrift für technische Physik, Vol. 18, No. 12, pp. 490-503 (1937). "Resonance levels of the two Br<sup>80</sup> isomers." Zeitschrift für Physik, Vol. 107, No. 3-4, pp. 205-209 (1937). "Energy resonance for the capture of neutrons." One section of a book "Energy resonance for the capture of neutrons." One section of a took on "Nuclear Physics" issued by the Physical Institute of the Technical College in Zurich in the summer of 1936. Other coenthors were P. Auger, G. Bernardini, W. Bothe, J. Clay, J. D. Cockcroft, J. R. Dunning, S. Franchetti, H. Geiger, H. V. Halban, Jr., L. Meitner, M. L. E. Oliphant, P. Preiswerk, and E. J. Williams. Book was edited by E. Bretscher in Berlin in 1936. See Naturwissenschaften, Vol. 25, No. 15, pp. 235-236 (April 9, 1072) "Wave-length dependence of muclear photo-effect of beryllium." 1937). Zeitschrift für Physik, Vol. 100, No. 7-8, pp. 440-444 (1936). With "Output of gamma radiation excited by slow neutrons." Zeitschrift W. Gentner. fur Physik, Vol. 100, No. 5-6, pp. 307-320 (1936). "Intergy liberated at neutron capture." Zeitschrift für Physik, Vol. 103, No. 1-2, pp. 115-124 (1936). "Quantum energies of some nuclear gamma rays." Naturvissenschaften, Vol. 24, No. 5, pp. 77-78 (Jan. 31, 1936). From Institute of Physics, Kaiser Wilhelm Institute for Medical Research, Heidelberg. "Artificial nuclear transformations." Ergebnisse der exakten Naturwissenschaften, Vol. 14-pp. 1-41 (1935). With W. Bothe. "Excitation of secondary gamma radiation by neutrons." Zeitschrift für Physik, Vol. 97, No. 3-4, pp. 242-264 (Oct. 11, 1935); No. 5-6, pp. 265-276 (Oct. 18, 1935). Zeitschrift für technische Physik, Vol. 16, No. 11, pp. 412-414 (1935).



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#### FLEISCHMANN, R. (articles, cont.)

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"Gamma radiation of artificially radioactive elements." Naturwissenschaften, Vol. 22, No. 25, p. 434 (June 22, 1934). From Institute of Physics, Kaiser Wilhelm Institute for Medical Research, Heidelberg.
"Gamma radiation resulting from slow neutrons." Naturwissenschaften,
Vol. 22, No. 50, p. 839 (Dec. 14, 1934). From Heidelberg.
"New from of Geiger counter." Naturwissenschaften, Vol. 20, No. 15,
p. 270 (April 6, 1932).
"Selective light absorption in thin layers of alkali metal."
Naturwissenschaften, Vol. 20, No. 15, p. 2/2 (April 6, 1932).
"Artificial muclear gamma rays, neutrons and positrons. Ergebnisse
der exakten Naturwissenschaften, Vol. 13, pp. 1-56 (1934). With W. Bothe.
"External photoelectric effect in alkali halides." Zeitschrift für
Physik, Vol. 64, No. 11-12, pp. 717-721 (Aug. 21, 1933).
"Photoelectric effect in semi-insulators." Annalen der Physik,
Vol. 5, No. 1, pp. 73-106 (May 16, 1930).

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BIOGRAPHIC REGISTER

Case No. 8060181 Name: FLUEGGE, Prof. Dr. Siegfried 30 July 1948 Variant: FLUGGE, Prof. Dr. Siegfried Present Position: Teaching, University of Birthdate: 16 Mar 1912 Marburg Birthplace: Dresden, Germany Location: Marburg an der Lahn, Rent-hof 5 Netionality: German Gen. Occupation: Nuclear Physicist Race: White\_\_\_\_ Sex: Male Education: Ph.D. Marital Status: Name of Spouse: Languages: Children: Honors: Religion: Publications: Political Affiliation:

Dr. Siegfried Fluegge, recently (November 1947) appointed to the newly established Chair of Structure of Natter at the University of Marburg, <u>1</u>/ reportedly is teaching Higher Quantum Theory and Theoretical Optics and with Prof. Huckel is conducting a seminar in theoretical physics. <u>2</u>/

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Until 1937 Fluegge was an assistant to Heisenberg and then moved to the Kaiser Wilhelm Institute for Chemistry. He later became a full professor at the University of Koenigsberg. 3/ A theoretical physicist, he was an early writer on the technical uses of chain reaction, 6/ and based on an analysis of his prewar work only, Fluegge was rated at the very top of his field at the beginning of the war. 7/ During the war Fluegge worked with Mattanch and Hahn, 4/ and also was associated with von Ardenne at the high tension laboratories of the Reichpost. 5/ After V-E day he was given a "high" rating, 8/ and was placed in the top priority group for denial to a potential enemy nation. 9/ One of the Senior Authors of the FIAT review of German Scientists, 5/ Fluegge lectured at the University of Gottingen for a while before going to the University of Warburg. 10/

In 1947 his services were requested by the Office of Naval Research to do work at the University of Chicago, <u>11</u>/ and an investigation to determine his political eligibility has been initiated. <u>12</u>/ A specialist in the field of theoretical and nuclear physics and quantum theories, Fluegge has written numerous articles some of which are listed on the attached pages.

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# FLUEGE, Prof. Dr. Siegfried

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| Lie        | st of                         | Source     | Materi    |                            |  |  |
|------------|-------------------------------|------------|-----------|----------------------------|--|--|
| <u>1</u> / | Physikalisch Blatter_#7, 1947 |            |           |                            |  |  |
| <u>2/</u>  | Physikalisen Blatter #9, 1947 |            |           |                            |  |  |
| 3/         | DAL                           | Agency,    | , Wesh.   | , D.C., 21 May 46 (Secret) |  |  |
| 4/         | Ħ                             | H I        | đ - e ser | " 15_Dec <u>44 ( " )</u>   |  |  |
| <u>5</u> / | N                             | <b>A</b> _ | N         | " undated ( ")             |  |  |
| <u>6</u> / | Ħ                             | Ħ.         | Ħ         | " 17 June 44 ( " )         |  |  |
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| ĕ          | N                             | <b>M</b> · | n         | " 21 Feb 48 ( ")           |  |  |
| <u>9</u> / | Ħ                             | N          | <b>n</b>  | H 22 Aug 47 ( H )          |  |  |
| 10/        | n                             | n -        | n         | " undated ( " )            |  |  |
| 11/        | Ħ                             | Ħ :        | Ħ         | " 19 Aug 47 (Secret)       |  |  |
| 12/        | Ħ                             | N ·        | n         | " 10 Dec_47 ()             |  |  |

Attachment: List of Publications

834021-1447

COPY



FLUGGE, S. (The S. may stand for Siegfried, See the last article in the following list.)

"Spontaneous fission of uranium and its neighboring elements." Zeitschrift fur Fhysik, p. 298 (1943).

Introduction to "Nuclear Physics Tables," by J. Mattauch. A book published by Springer in Berlin in 1942.

"Isotope report for 1941." Physikalische Zeitschrift, Vol. 43, pp. 1-5 (Jan. 1942). With J. Mattauch.

"The problem of isomerism in muclear physics." Physikalische Zeitschrift, Vol. 42, No. 13-14, pp. 221-254 (Sept. 1941).

"Characteristic vibrations of a liquid drop, with application to nuclear physics." Annalen der Physik, Vol. 39, p. 573 (1941).

"The artificial production of naturally radioactive elements." Naturvissenschaften, Vol. 29, pp. 462-467 (Aug. 1, 1941). Report on work with cyclotron.

"Concept of exchange energy in quantum mechanics." Naturwissenschaften, Vol. 20, No. 43, pp. 673-6/7 (Oct. 25, 1940). From Berlin-Dahlem.

"Isotope report for 1940." Physikelische Zeitschrift, Vol. 42, pp. 1-5 (Jan. 1, 1941). With J. Mattench.

"Chemical elements and natural atomic species according to results of isotopic and nuclear investigation." Physikalische Zeitschrift, Vol. 41, pp. 1-14 (Jan. 1, 1940). With O. Hahn and J. Mattench.

"Quadrupole moment of the deuteron and mucleer forces." Zeitschrift fur Physik, Vol. 113, No. 9-10, pp. 587-595 (1939).

"Disintegration of Th." Naturwissenschaften, Vol. 27, No. 27, pp. 470-471 (July 7, 1939). From Kaiser Wilhelm Institute for Chemistry, Berlin-Dahlem.

"Remarks on nuclear isomericm." Naturwissenschaften, Vol. 27, No. 27, pp. 470-471 (July 7, 1939). From Kaiser Wilhelm Institute for Chemistry, Berlin-Dahlem.

"Prospects of technical utilization of energy-content of atomic nuclei." Naturwissenschaften, Vol. 27, pp. 402-410 (June 9, 1939). Report on recent papers dealing with this problem in connection with the newly discovered fission of the U nucleus. From Kaiser Wilhelm Institute for Chemistry, Berlin-Dahlem.

"Energy considerations of production of Ba by irradiation of U with neutrons." Zeitschrift fur Physikalische Chemie, Vol. 42, Section B. No. 3-4, pp. 274-280 (1939). With G. v. Droste.

"Grain-size and diffusion constant from emanating power." Zeitschrift fur physikalische Chemie, Vol. 42, Section B, No. 3-4, pp. 179-220 (1939). With K. E. Zimens. Q: -0 21 - 1443

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FIUGGE, S. (articles, cont'd.)

"Adsorption at surfaces with congealed thermal-equilibrium of the active zones." Zeitschrift fur physikalische Chemie, Vol. 4, Section B, No. 6, pp-453-465 (1938). With E. Cremer.

"Emission of neutrons from substances rich in hydrogen." Zeitschrift fur Physik, Vol. 111, No. 1-2, pp. 109-124 (1938).

"Cross-sections for reactions between very light nuclei." Zeitschrfit fur Physik, Vol. 108, No. 9-10, pp. 545-5/9 (1938).

"Mass defects of light nuclei from recent theories of nuclear forces." Zeitschrift-fur Physik, Vol. 105, No. 9-10, pp. 522-536 (1937).

"Muclear physics." Physikalische Zeitschrift, Vol. 38, pp. 13-36 (Jan. 1937). With A. Krebs.

"Structure of the light atomic nucleus." Zeitschrift fur Physik, Vol. 96, No. 7-8, pp. 459-472 (Sept. 7, 1935).

"Is there a neutron of mass 2?" Zeitschrift fur Physik, Vol. 95, No. 5-6, pp. 312-318 (June 17, 1935).

"Possible occurrence of bineutrons in nuclear transformations." Zeitschrift fur Physik, Vol. 95, No. 5-6, pp. 319-320 (June 17, 1935). With A. Krebs.

"Buclear chemistry." Physikalische Zeitschrift, Vol. 36, pp. 466-480 (July 1, 1935). With A. Krebs.

"Deduction of the fundamental equation of statistics." Zeitschrift fur Physik, Vol. 93, No. 11-12, pp. 204-208 (Feb. 26, 1935).

"Viscous elasticity." Annalen der Physik, Vol. 22, No. 3, pp. 209-222 (March 1935).

"New interpretation of wave-mechanics." Zeitschrift fur Physik, Vol. 87, No. 7-8, pp. 432-441 (Jan. 26, 1934). With E. Madelung.

"Theory of the stoppage of fast electrons." Zeitschrift fur Physik, Vol. 85, No. 11-12, pp. 693-696. (Oct. 14, 1933).

"Influence of neutrons on the internal structure of the stars." Zeitschrift fur Astrophysik, Vol. 6, pp. 272-292 (May 11, 1935).

"Wave mechanics model of the neutron." Zeitschrift fur Physik, Vol. 81, No. 7-8, pp. 491-495 (March 30, 1933).

"Quantum mechanics of diatomic systems." Annalen der Physik, Vol. 16, No. 7, pp-76%-760 (April 1933).

"Present status of problems of stellar absorption." Naturwissenschaften; Vol. 20, pp. 704-705 (Sept. 16, 1932). From Gottingen. Author is given here as Siegfried Flugge.

8 - 021-1449



## FIUESGE, Siegfried - Nuclear Physicist

"On the Quantum Mechanical Exchange Energy" (1940)

"The Determination of Grain Sizes & Diffusion Constants by means of the Emanating Power" (1939). With Zimens.

"Can the Energy Content of the Atom Nucleus be Utilized Technically?" (1939)

"Observations on the Theory of the Bheotron." (1944)

"On the Theory of Resonance Absorption." (1942)

"Can One Drive a Uranium Machine in Collaboration with Fast Neutrons?" -Unpublished. Research Report. (1942)

"On the Excitation of Nautrons by Cosmic Rays & Their Distribution in the Atmosphere." 1946. (cy in Naval Research Lab. Library)

"Velocity Distribution ("Geschwindigkeits Spectrum") of Slow Neutrons Emitted by a Paraffin Source." (1944)

"Calculation of Fraction of Neutrons which are Absorbed in Resonance Lines in a  $U = H_2$  O Mixture." Part III (1940)

"Calculation of Fraction of Neutrons Which are Absorbed in Resonance Lines in a U - E2 O". Part II (1940)

"Investigation of the Resonance Capture of Neutrons by Uranium II." (1942) In collaboration with Sauerwein.

"Prospects of Tech. Utilization of Energy Content of Muclei"

"Energy Consideration of the Production of Barium by Irrediation of U with Slow Neutrons" - with Won Droste.

"The Chemical Elements & Natural Isotopes according to the State of Research on Isotopes & Nuclei - (1940) With Hahn, Mattauch. Supplement. (1942)

"Isotope Weights & Packing Fraction Curve" -- with Hahn, Mattauch.

"Froduction of Element 55 by & Disintegration of Radium & and Thorium A" du collaboration with Adolf Krebs. (1944)

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BIOGRAPHIC REGISTER

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| Name: FUENFER, Erwin<br>Variant: FUNFER, Erwin<br>Alias:   | Case No. 8030874<br>Date: 19 July 1948   |
|--|--|
| Variant:       Fullias:         Alias:         Present Fosition:       Research work         For the French         Location:       St. Louis, France         Gen. Occupation:       Nuclear physicist         Education:       Ph.D.         Languages:       Honors:         Publications:       Publications:   | Date: 19 July 1948<br>Birthdate: 1911<br>Birthplace:<br>Nationality: German<br>Race: White<br>Ser: Male<br>Marital Status:<br>Name of Spouse:<br>Children:<br>Religion:<br>Political Affiliation:<br>Ar physicist, was last reported at  |
| Gehrsten at the University of Giessen<br>that University. 2/<br>Beginning in 1941 Fuenfer, Flam<br>Heidelberg group under the latters di<br>pile experiments there until 1943. Institute for Physics in Berlio-Dahl<br>One report indicates that in March 19<br>scientists Fuenfer spoke regarding the<br>Cobalt (or copper) and again in Febru<br>mean-free-paths and diffusion pathler | nersfeld and Bothe made up the<br>irection and conducted research on<br>They then joined the Kaiser Wilhelm<br>em under Weisacker and Heisenberg. 3/<br>941 at a conference of German<br>hermal neutrons and Iron, Nickel and<br>hary 1942 regarding neutron, Beryllium,<br>highs, absorption and Radium-Beryllium. 4/ |
| ,  | Uranium and Heavy Water Thickness."  |
| "Disintegration of Boron by Slow<br>"Back Scattering of C-Neutrons   |  |
| "Absorption of Thermal Neutrons<br>Beryllium", 1941.   | and Increase of Fast Neutrons in   |
| "Increase and Absorption of Fas<br>Water", 1942.   | t Neutrons in Carbon Water and Heavy   |
| "Further Keasurements on the Ner<br>Approvedure Holders)<br>Date NOV 1985  | utron Increase in U by Fast Neutrons", 1942.<br>$83 \pm 0.2 \pm -1451$   |

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FUENFER, Erwin (cont.)

"Layer Experiments with Variation in the Thicknesses of U and D20", 1943.

"Experiment with 1.5 tons D<sub>2</sub>O and U and a 40 Om. Carbon Reflector".

1915. <u>5</u>/

Based only on a review of his prewar work, Fuenfer was rated as close to the top in his field.6/ and more recently has been included in a list of outstanding German scientists in the field of muclear research.

1/ IAC Agency, Washington, D. C., 31 March 1947 (Secret)
2/ IAC Agency, Washington, D. C., 21 May 1946 (Secret)
3/ IAC Agency, Washington, D. C., 16 January 1945 (Secret)
4/ IAC Agency, Washington, D. C., 15 February 1945 (Secret)
4/ IAC Agency, Washington, D. C., undated, (Secret)
5/ IAC Agency, Washington, D. C., undated, (Secret)
6/ IAC Agency, Washington, D. C., 19 December 1947 (Secret)
7/ IAC Agency, Washington, D. C., 19 December 1947 (Secret)

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BIOGRAPHIC REGISTER

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| Name: GROTH, Dr. Wilhelm<br>Variant:<br>Allas:   | Case No. 8010552<br>Date: 19 July 1948   |
|--|--|
| Present Position: Frofessor, Physics<br>Institute, University of Hamburg<br>Location: Hamburg 36, Klopstoch Str.<br>Front 8<br>Gen, Occupation: Physical chemist<br>Education: Ph.D.   | Birthdate: 1904<br>Birthplace:<br>Nationality: German<br>Race: White<br>Sex: Male  |
| Languages:   | Marital Status:<br>Name of Spouse:   |
| Honors:  | Children:  |
| Publications;  | Religion:  |
|  | Political Affiliation: Anti-Nazi   |
| Purge Tribunal exonerated on February 13,<br>statements of the German and foreign pres<br>informed Nils Bohr, the Danish atom exper<br>research. When giving evidence before th<br>that Bohr, as well as German atom experts | s according to which he had<br>t, on the state of German atomic<br>e Purge Tribunal he had said<br>, had been informed that trials<br>ny were made along wrong lines<br>he near future. A written<br>ibunal however showed that<br>d Bohr. 1/:<br>pe separation by use of the<br>is problem from 1941 until 1944<br>reiburg and finally in November<br>were seized later by an ALSOS<br>teen scientists at Celle. 4/ |
| the chairmanship of Mr. Speer, Minister of<br>when the problem of miclear physics was di<br>A captured German technical report   | f Armament and War Production,<br>iscussed. 5/:<br>indicated that Professors   |
| Svedberg and Dr. Pedersen of Upsala, Swed<br>German isotope separation project from Gro  | oth.   |
| •  | Approved for Release<br>Date <u>1 NUV 1985</u>   |
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GROTH, Dr. Wilhelm (cont.)

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| Groth, on the basis of his prewar work only had been rated as<br>close to the top in his field 6/ and later was given a very high rating<br>in the Strassburg Summary. 7/ He has published many articles some of<br>which are listed below: |   |
|---|---|
| "Enrichment of Krypton Isotopes" in collaboration with collaboration<br>with Harteck, 1940.   |   |
| "Status of Work on Separating U235 and 4238", 1940.   |   |
| "Corrosion Experiments on Two Alloys Toward UF6", 1940.   |   |
| "Status of Work on Building an Ultracentrifuge", 1941.  |   |
| "Status of Work on Isotope Separation at the University of Hamburg", 1940.  |   |
| "Report on Meeting with Prof. Svedberg and Dr. Pedersen at Upsala,<br>Sweden", 1942.  |   |
| "Separation of U Isotopes by the Ultracentrifuge. I. Enrichment of<br>Xenon Isotope", 1942.   | - |
| "Status of Work on Separation of Isotopes of Pres. Uranium", 1942.  |   |
| "Separation of U isotopes by the Ultra-centrifuge II. Enrichment<br>of U234 and U235", 1942.  | - |
| Production of UFG on a Semi-Commercial Scale. Investigation of<br>the Alloy Capability of U", 1942.   | - |
| "Separation of U Isotopes by the Separation Tube and the<br>Ultracentrifuge", 1942.   |   |
| Groth has also done some research in ultraviolet rays 3/ and<br>recently has been included in a list of German scientists who were<br>thought to be the outstanding men in the field of nuclear research. 6/                                | - |
| 1/ IAC Agency, Washington, D. C., 1 March 1948 (Secret)   |   |
| 2/ IAC Agency, Washington, D. C., 21 May 1946 (Secret)  |   |
| 3/ IAC Agency, Washington, D. C., undated (Secret)  |   |
| 4/ IAC Agency, Washington, D. C., 16 June 1945 (Secret)   |   |
| 5/ IAC Agency, Washington, D. C., 19 August 1948 (Secret)   |   |
| 61 IAC Agency, Washington, D. C., undated (Secret)  |   |
| 7/ IAC Agency, Washington, D. C., 12 February 1948 (Secret)   |   |
| 8/ IAC Agency, Washington, D. C. Pecember 1947 (Secret)<br>834021-1454  | - |

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| Name: HAXEL, Otto<br>Veriant:<br>Alias:   | Case No. 8010550<br>Date: 19 July 1948                             |
|---|--|
| Present Position: Scientific assistant<br>at the KWIP, Univ. of Gottingen<br>Location: Zeppelin, Str. 5, Göttingen  | Birthplace:  |
| Gen. Occupation: Physicist  | Nationality: German  |
| Education: Fh.D.  | Race: White<br>Sex: Male   |
| Languages:  | Marital Status:<br>Name of Spouse:                                 |
| Honors:   | Children:  |
| Publications:   | Religion:  |
| 1   | Political Affiliation: Nazi Party                                  |
| Diebner of the Reichsforschungsrat at I<br>to have contributed to muclear_research<br>In March 1947 he attended a sem<br>the St. Louis Laboratory in France and | inar_of_muclear physicists at                                      |
| of Matter (Crystels) by Neutrons. 5/ 1<br>of resonance levels thru transmutation<br>has also collaborated with Volz in meas                                     | A specialist in the investigation<br>by means of alpha rays, Haxel |
| In addition to the articles list<br>FIAT Report mainors. 6/   | ted below he is also one of the                                    |
| "Nuclear Transformation of Boron  | n by Slow Neutrons", before 1939.                                  |
| "Energy and Range of Heavy Disin  | ntegration Products of U", before 1935.                            |
| "The Absorption of Neutrons in A<br>with Volz, 1940.  | Aqueous Solutions" in collaboration                                |
| "Absorption Cross Section for Sl<br>on Concentration", in collabora   | low Neutrons. Method I Dependence<br>ation with Volz, 1940.        |
| •   | Approved for Release<br>Date NOV 1993                              |

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"Absorption and Slowing Down of Neutrons in BeO", 1941.

"Absorption of Neutrons in Uranium", in collaboration with Volz, 1941.

"Measurement of the Thickness of the Corrosion Protection Layer on Uranium", 1944.

"Energy and Range of Slow Alpha Rays", in collaboration with Raeman, 1943.

In December 1947 Haxel was included in a list of German scientists who were thought to be outstanding men in the field of nuclear research. 7/

1/ IAC Agency, Washington, D. C., 21 May-1946 (Secret)

2/ Fhysikalische Blatter #9. 1947

J/ IAC Agency, Washington, D. C., 13 April 1945 (Secret)

4/ IAC Agency, Washington, D. C. 28 March 1946 (Secret)

5/ IAC Agency, Washington, D. C., 12 March 1947 (Secret)

6/ IAC Agency, Washington, D. C., undated (Secret)

7/ IAC Agency, Washington, D. C., 19 December 1947 (Secret)

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834021-1456



BIOGRAPHIC REGISTER

| Name: HOUTERMANNS, Fritz, G.                            | Case No. 7005160                           |
|---|--|
| Verient: HOUTERMANS, Fritz G.                           | 30 July 1948                               |
| Fresent Fosition: Lecturer & professor                  | Birthdate: 22 Jan. 1903                    |
| Second Physics Institute, University<br>of Göttingen.   | Birthplace: Danzig                         |
| Location: 22 Lotzestrasse, Göttingen.                   | Nationality: German                        |
| Gen. Occupation: Physicist                              | Race: White<br>Sex: Male                   |
| Education: Germeny; Cembridge University.               | Marital status: Merried<br>Name of Spouse: |
| England; Kharkov Physico-Technical<br>Institute, Russia | - Children:                                |
| Languages;  | Religion:                                  |
| Honors:   | Political Affiliation:                     |
| Publications:   | (See below)                                |

Fritz Houtermanns, German physicist, has been reported as lecturing at the winter semester, 1947-45, at the University of Göttingen on the Physics of the Neutron. 1/

Born in Danzig of Dutch extraction, Houtermanns grew up in Austria and Germany and left the latter in 1933 when he was an associate and co-worker of Gustav Hertz because of the Nazi party. He proceeded to England and worked at Cambridge University and subsequently went to Kharkov, Russia where he worked at the Physico Technical Institute.

In 1937 as he was preparing to leave Bussia, Houtermanns, according to his own statement, was arrested by the NKVD (now the MVD) on vague charges of counter revolutionary activity for Germany. Shortly after the German-Russian Treaty of 1939 and as a result of the intervention of Dr. R. A. Millikan of California Tech, he was released in 1940 after preparing what he claims was a false confession of technical esp@inage which he formed in such a manner as to be scientifically fallacious, but which satisfied the NKVD, who exiled him to Germany in spite of his requests not to be sent there. Upon his arrival in Germany, Houtermanns says he was immediately imprisoned by the Gestapo. 2/ After three months he was released but he was never admitted to the URAN VEREIN (Uranium Society) because he was considered unsafe. 3/ As a result his connection

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HOUTERMANNS, Fritz, G.

with the German nuclear physics project was not great although he was in close contact with von Weizsacker and von Ardenne and worked with the latter on a cyclotron.

In 1941 Houtermanns wrote a long and detailed evaluation of the quality, political inclination and present situation of physicists, engineers and technically trained helpers in the USSR, based on his personal observations. He made two trips to Kiev and Kharkov in 1941 in the service of the RIM for the purpose of taking over research institutions. 4/ Houtermanns' official position during the war was with the PTR (German Bureau of Standards) at Ronneburg, Thuringen where he worked with counter-tubes. 2/

Politically, Houtermanns at the time of his departure from Gottingen in 1933 was inclined toward Communist trends. This view, however, was soon changed due to his imprisonment as a foreign suspect and other unpleasant experiences while in Russia prior to 1940. 5/ His request to the Russians not to be returned to Germany indicates his anti-Nazi sympathies. 6/ In 1945 Houtermanns, in an interview with a representative of the U.S., stated he believed that Russia has not abandoned her desire of creating world-wide Communism. A criterion of the sincerity of any nation, Houtermanns believes, can be established by the insistence on the part of the U.N. that each member nation allow its citizens to emigrate freely. He believes that a nation refusing this right to its citizens cannot be trusted and that the U.N. can still force Russia to adopt this rule. 7/

Scientifically, opinions on Houtermanns differ. A technical interrogator in 1945, appraised him as possessing information which was unreliable and opinions which were immature. 3/ An equally reliable source indicated that this appraisal should be discounted. 3/ Houtermanns was stated to be the first man in Germany to propose fissionability of plutonium and wrote several memoranda on the subject but little attention was paid to him in Germany. 6/

Houtermanns has written many articles some of which are listed below:

834021-1458





## HOUTERMANNS, Fritz, G.

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"The Energy Consumption of Isotopic Separation" 1941. "Nuclear Physics Works in Naturwissenschaften" 1940-41. "The Question of Starting a Nuclear Chain Reaction" 1941 "T's Question of Releasing Nuclear Chain Reactions" 1944 "On the Use of Thorium for Nuclear Energy from Fission" 1945. "Concerning the Thermal Dissociation of the Vacuum." 3 Mar 47. In collaboration with Jensen. "Uber den (n,2n) -- Processes Involving Beryllium with Neutrons From a (Po / Be) Source." "Mathematisch-Physikolische Klasse" 1946/ "The Age of Uranium" June 1947. Collaborated with O. Haxel on a paper entitled, "Coincidences with B-Decay and decay constants of Ribidium" 1947. Mrs. Houtermanns has been reported as being at the Physics Department of Radcliffe College, Cambridge, Mass. 6/ Physikalische Blatter, No. 10, 1947 (unclassified) 1/ IAC Agency, Washington, D.C., 20 Feb 46 (Secret) 2/ 3/ , 10 Jan 46 (Secret) 4/ , 8 Oct 45 (Secret) 5/ , 29 July 47 (Secret) <u>6</u>/ . 30 Jan. 46 (Secret)

- 3 ------

, 12 Sept. 45 (Secret)

834021-1459



#### BIOGRAPHIC REGISTER

Case No. 8010573 Date: 29 July 1948

Nationality: Naturalized German

of Dutch extraction.

Name: JENSEN, Hans Variant: JENSEN, J(ohannes) Hans

Present Position: University of Hamburg Birthdate: 1907 Birthplace:

Location: Hamburg, Germany

Gen. Occupation: Physical Chemist

Education:

Languages:

Honors:

Publications:

Children:

Race: White

Sex: Male Marital Status:

Name of Spouse:

Religion:

Political Affiliation:

At the beginning of the last war Professor Hans Jensen, recently (Dec. 47) reported at the University of Hamburg, 1/ had been rated by U.S. sources, based on a survey of his pre-war work only, as very close to the top in his field. 2/

A former full professor, 3/ and Director of the Institute of Physical Chemistry at the Technische Hochschule at Hannover, 1/ Jensen was a theoretical collaborator at the Institute Harteck during the war. 2/ Known for his work on the theoretical considerations of the separation of isotopes, 3/ he was an advisor to Harteck, Groth and Suhr, on their ultracentrifuge experiments and also worked on heavy water research. 1/ He corresponded frequently with Prof. Rudolf Fleischmann, at the University of Strasbourg on isotope separation research and for a time worked on the cyclotron in Paris. 4/

An indication of Jensen's importance is shown in a report that stated in 1943 a meeting was called by Mr. Speer, German Minister of Armaments and War Production, to discuss the problem of nuclear physics and Jensen was one of the scientists invited to attend. 5/ He also was given a "high" rating by U.S. analysts in 1944. 4/

Politically, little is known of Jensen except that he allegedly kept Bohr informed on research activities in Germany and Norway during the war. 1/

He is the author of many works some of which are listed below:

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### JENSEN, Hans

"On the Slowing Up, Scattering and Capture of Neutrons in Solid CO<sub>2</sub> and on Their Capture in Ur" in collaboration with Harteck, Knauer and Suess. 1940. Unpublished.

"Slowing Up of Neutrons in Carbon, Water and Heavy Water." 1944.

"Absorption of Thernal Neutrons in Carbon" in collaboration with Bothe. 1944.

- "Concerning the Thermal Dissociation of Vacuums" in collaboration with Houtermanns.
- "Concerning the Excitation of Molecular and Lattice Oscillation Caused by Recoil in Nuclear Processes in Chemically Combined Atoms" in collaboration with Steinwedel.

\*Articles published by Jensen, J. Hans D. and presumed to be the Jensen reviewed above:

1/ IAC Agency, Washington, D.C., undated. (Secret)

2/ IAC Agency, Washington, D.C., undated. (Secret)

3/ IAC Agency, Washington, D.C., 21 May 46 (Secret)

4/ IAC Agency, Washington, D.C., 12 Feb. 45 (Secret)

5/ IAC Agency, Washington, D.C., 19 Aug. 45 (Secret)

83+021-1461



BIOGRAPHIC REGISTER

| Name: JORDAN, Prof. Dr. Faul<br>Variant:<br>Allas:   | Case No. 8010399<br>Date: 19 July 1948                     |
|--|--|
| Present Position: Guest professor<br>at Hamburg University<br>Location: Hamburg 36, Jungius Str. | Birthdate: 18 October 1902<br>Birthplace: Hanover, Germany |
| 9. Germany<br>Gen. Occupation: Astro-physicist   | Nationality: German  |
| Education: University of Göttingen<br>1924   | Race: White<br>Sex: Male<br>Marital Status: Married        |
| Languages:   | Name of Spouse:  |
| Honors:  | Children:  |
| Publications:  | -Religion: Protestant                                      |
|  | Political Affiliation: Reportedly an "avowed Nazi"         |

Prof. Paul Jordan, the son of a Hanover painter Prof. Ernst Jordan, attended the University of Gottingen where he specialized in physics, mathematics and the natural sciences. He received his degree in 1924 and later studied in Copenhagen. After serving as an assistant professor at Gottingen, he moved to Hamburg where he tanght theoretical physics from 1927 to 1929 and later from 1935 to 1944 at Rostock where he became a full professor. 1/ Jordan is reported also as occupying the chair Theoretical Physics in Berlin during 1943 and 1944. 2/

After the collapse of Germany, he was allegedly invited to succeed Prof. Max von Laue at Berlin and from 1945 to 1947 he taught and did research work at Göttingen. 1/ In the spring of 1947, together with a German solar physicist named Kiepenheuer, Jorden reportedly attended a conference held at St. Louis, France by the Joliot-Curie Committee on Atomic Energy 3/ and lectured on new cosmologic theories. 4/

In 1947 he was appointed guest professor at Ramburg, 1/ where it is reported that his lectures drew upwards of 400 students. His wife is stated to be in Berlin trying to move their effects to Hamburg 2/ where Jordan is living in incredibly primitive conditions and "literally starving". 5/

Politically Jordan has been reported as being an "avowed Nazi" but his ability has been acknowledged both by his fellow workers 6/ and by our own scientists who/rated him very close to the top based only on his pre-war activities. 7/

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| JORDAN, | Frof. | Dr. | Peul |
|---------|-------|-----|------|
|---------|-------|-----|------|

1/ IAC AGENCY, WASHINGTON, D. C., 7 January 1948 (Upclassified)

2/ IAC Agency, Washington, D. C., & January 1948 (Secret)

3/ IAC Agency, Washington, D. C., March 1947 (Secret)

4/ IAC Agency, Washington, D. C., 12 March 1947 (Secret)

5/ IAC Agency, Washington, D. C., 20 January 1948 (Secret)

6/ IAC Agency, Washington, D. C., 9 December 1947 (Secret)

7/ IAC Agency, Washington, D. C., undated (Secret)



834021-1463



| Name: HOPFEHMANN, Dr. Hans<br>Variant:<br>Alias:  | Case No. 8061186<br>Date: 19 July 1948   |
|---|--|
| Present Position: Research, Univ.<br>of Göttingen<br>Location: Baurat-Gerberstrasse 12  | Birthplace:  |
| Gottingen, Germany  | Nationality: German  |
| Gen. Occupation: Theoretical phys<br>ist  | Race: White  |
| Education: Ph.D.  | Marital Status:  |
| Languages:  | Name of Spouse:  |
| Honors:   | Children:  |
| Publications:   | Religion:  |
|   | Political Affiliation:   |
| Kopfermann has a 6 Mev betath<br>Göttingen 3/ and reportedly is a v<br>awed by finding himself in the cha<br>James Franck. He recently collabor<br>on a paper entitled "Isotope Shift   | betatron research. 2/ A specialist<br>s. Kopfermann has been acknowledged<br>f muclear spin and spectroscopy. 4/<br>ron and a mass spectrograph at<br>very modest individual and somewhat<br>air previously occupied by Professor<br>brated with P. Brix also of Gottingen<br>ting Effect of the Heavy Water Elements"<br>per 1947 meeting of the German Physical  |
| Kopfermann has a 6 Mev betath<br>Göttingen 3/ and reportedly is a w<br>awed by finding himself in the cha<br>James Franck. He recently collabo<br>on a paper entitled "Isotope Shift<br>which was presented at the Septemb<br>Society in Göttingen. 5/<br>In December 1947 Kopfermann w<br>scientists who were thought to be<br>of muclear research. 6/   | nuclear spin and spectroscopy. 4/<br>ron and a mass spectrograph at<br>very modest individual and somewhat<br>air previously occupied by Professor<br>brated with P. Brix also of Gottingen<br>ting Effect of the Heavy Water Elements"<br>ber 1947 meeting of the German Physical<br>mas included in a list of German<br>the outstanding men in the field   |
| Kopfermann has a 6 Mev betath<br>Göttingen 3/ and reportedly is a v<br>awed by finding himself in the cha<br>James Franck. He recently collabo<br>on a peper entitled "Isotope Shift<br>which was presented at the Septemb<br>Society in Göttingen. 5/<br>In December 1947 Kopfermann w<br>scientists who were thought to be  | nuclear spin and spectroscopy. 4/<br>ron and a mass spectrograph at<br>very modest individual and somewhat<br>air previously occupied by Professor<br>brated with P. Brix also of Gottingen<br>ting Effect of the Heavy Water Elements"<br>ber 1947 meeting of the German Physical<br>mas included in a list of German<br>the outstanding men in the field   |
| Kopfermann has a 6 Mev betath<br>Göttingen 3/ and reportedly is a w<br>awed by finding himself in the cha<br>James Franck. He recently collabo<br>on a paper entitled "Isotope Shift<br>which was presented at the Septemb<br>Society in Göttingen. 5/<br>In December 1947 Kopfermann w<br>scientists who were thought to be<br>of muclear research. 6/   | I miclear spin and spectroscopy. 4/<br>ron and a mass spectrograph at<br>very modest individual and somewhat<br>air previously occupied by Professor<br>brated with P. Brix also of Göttingen<br>ting Effect of the Heavy Water Elements"<br>ber 1947 meeting of the German Physical<br>eas included in a list of German<br>the outstanding men in the field<br>21 May 1946 (Secret)   |
| Kopfermann has a 6 Mev betath<br>Göttingen 3/ and reportedly is a w<br>awed by finding himself in the cha<br>James Franck. He recently collabo<br>on a paper entitled "Isotope Shift<br>which was presented at the Septemb<br>Society in Göttingen. 5/<br>In December 1947 Kopfermann w<br>scientists who were thought to be<br>of muclear research. 6/<br>IAC Agency, Washington, D. C.,   | I miclear spin and spectroscopy. 4/<br>ron and a mass spectrograph at<br>very modest individual and somewhat<br>air previously occupied by Professor<br>brated with P. Brix also of Göttingen<br>ting Effect of the Heavy Water Elements"<br>ber 1947 meeting of the German Physical<br>mas included in a list of German<br>the outstanding men in the field<br>21 May 1946 (Secret)   |
| Kopfermann has a 6 Mev betath<br>Göttingen 3/ and reportedly is a v<br>aved by finding himself in the cha<br>James Franck. He recently collabo<br>on a paper entitled "Isotope Shift<br>which was presented at the Septemb<br>Society in Göttingen. 5/<br>In December 1947 Kopfermann v<br>scientists who were thought to be<br>of muclear research. 6/<br>IAC Agency, Washington, D. C.,<br>IAC Agency, Washington, D. C.,   | <pre>indiciear spin and spectroscopy. 4/ indiciear spin and spin a</pre>   |
| Kopfermann has a 6 Mev betath<br>Göttingen 3/ and reportedly is a v<br>aved by finding himself in the cha<br>James Franck. He recently collabo<br>on a paper entitled "Isotope Shift<br>which was presented at the Septemb<br>Society in Göttingen. 5/<br>In December 1947 Kopfermann v<br>scientists who were thought to be<br>of muclear research. 6/<br>IAC Agency, Washington, D. C.,<br>IAC Agency, Washington, D. C.,   | <pre>Iniclear spin and spectroscopy. 4/ ron and a mass spectrograph at very modest individual and somewhat air previously occupied by Professor brated with P. Brix also of Gottingen ting Effect of the Heavy Water Elements" ber 1947 meeting of the German Physical  eas included in a list of German the cutstanding men in the field 21 May 1946 (Secret) 16 Jamuary 1948 (Secret) 29 September 1947 (Secret) 22 June 1948 (Secret)</pre>   |
| Kopfermann has a 6 Mev betath<br>Göttingen 3/ and reportedly is a w<br>awed by finding himself in the cha<br>James Franck. He recently collabo<br>on a paper entitled "Isotope Shift<br>which was presented at the Septemb<br>Society in Göttingen. 5/<br>In December 1947 Kopfermann w<br>scientists who were thought to be<br>of muclear research. 6/<br>I IAC Agency, Washington, D. C.,<br>IAC Agency, Washington, D. C., | <pre>Iniclear spin and spectroscopy. 4/ ron and a mass spectrograph at very modest individual and somewhat air previously occupied by Professor brated with P. Brix also of Gottingen ting Effect of the Heavy Water Elements" ber 1947 meeting of the German Physical  eas included in a list of German the cutstanding men in the field 21 May 1946 (Secret) 16 Jamuary 1948 (Secret) 29 September 1947 (Secret) 22 June 1948 (Secret)</pre>   |
| Kopfermann has a 6 Mev betath<br>Göttingen 3/ and reportedly is a v<br>aved by finding himself in the cha<br>James Franck. He recently collabo<br>on a peper entitled "Isotope Shift<br>which was presented at the Septemb<br>Society in Göttingen. 5/<br>In December 1947 Kopfermann v<br>scientists who were thought to be<br>of miclear research. 6/<br>IAC Agency, Washington, D. C.,<br>A IAC Agency, Washington, D. C.,<br>IAC Agency, Washington, D. C.,   | <pre>Iniclear spin and spectroscopy. 4/ ron and a mass spectrograph at very modest individual and somewhat air previously occupied by Professor brated with P. Brix also of Gottingen ting Effect of the Heavy Water Elements" ber 1947 meeting of the German Physical  eas included in a list of German the outstanding men in the field 21 May 1946 (Secret) 16 Jamuary 1948 (Secret) 29 September 1947 (Secret) 22 June 1948 (Secret) 7</pre>   |
| Kopfermann has a 6 Mev betath<br>Göttingen 3/ and reportedly is a w<br>awed by finding himself in the cha<br>James Franck. He recently collabo<br>on a paper entitled "Isotope Shift<br>which was presented at the Septemb<br>Society in Göttingen. 5/<br>In December 1947 Kopfermann w<br>scientists who were thought to be<br>of muclear research. 6/<br>I IAC Agency, Washington, D. C.,<br>IAC Agency, Washington, D. C., | <pre>1 miclear spin and spectroscopy. 4/<br/>ron and a mass spectrograph at<br/>very modest individual and somewhat<br/>air previously occupied by Professor<br/>brated with P. Brix also of Gottingen<br/>ting Effect of the Heavy Water Elements"<br/>ber 1947 meeting of the German Physical<br/>eas included in a list of German<br/>the outstanding men in the field<br/>21 May 1946 (Secret)<br/>16 January 1948 (Secret)<br/>29 September 1947 (Secret)<br/>22 June 1948 (Secret)<br/>23 June 1948 (Secret)<br/>24 June 1948 (Secret)<br/>25 June 1948 (Secret)<br/>26 January 1948 (Secret)<br/>27 June 1948 (Secret)<br/>28 June 1948 (Secret)<br/>29 June 1948 (Secret)<br/>20 June 1948 (Secr</pre> |

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| rthdate: 1906, 22 March<br>rthplace:                     |
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|  |
| tionality: German  |
| ce: White  |
| x; Male<br>Fital Status:<br>me of Spouse:                |
| hildren:   |
| ligion:  |
| litical Affiliation: Reportedly an<br>"reliable Naži" 1/ |
|  |

year and a half with Bothe at the Kaiser Wilhelm Institute, Heidelberg 2/ end also during this period was associated with the American physicist Dr. J. B. Jisk. 3/ He later was located at the Kaiser Wilhelm Institute for Physics at Berlin-Dahlem 2/ and the University of Strasbourg under Dr. Fleischmann. 3/

Maurer was seized at the University of Strasbourg in November 1944 by United States forces and in subsequent interrogations in December he was uncooperative. He stated that in the time he spent at Joliot's laboratory he did no war research and was associated with experiments on the separation of Bismuth isotopes. An analysis of his laboratory not books indicated that he had drafted articles on the nuclear physics of chlorine, copper and lanthanum and on the artificial radio-activity of Bismuth. There was also an indication that during the months immediately preceding his seizure he was working hard on beta-radioactivity and gamma-radioactivity produced artificially in tantalum, tungsten, hafnium, sulfur and other materials of intermediate atomic number. 4/

Politically Maurer has been reported as unquestionably a reliable Nazi and in 1945 was in a prisoner of war camp in the U.S. 1/

Scientifically he also has been associated with research on the proportionality amplifier, radio-active isotopes (also chemical separation), high frequency and the cyclotron 2/ and has been described as an able young physicist. 1/

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| Date <u>2 NOV 1985</u>   |        |   | -            |
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MAURER, Werner (cont.)

Dr. Maurer has written the following scientific articles:

"Transformation of Boron by Slow Neutrons", in collaboration with J. B. Fisk.

"Energy Distribution of Neutrons from Boron".

"Neutron Emission of the Uranium Nucleus as a Result of its Spontaneous Fission", 1942.

He also contributed a note to Zeitung für Naturforschung, Band 2e, Heft 10 in October 1947 entitled "A new 10-min. Lenthanum isotope resulting from the irradiation of barium with deuterons". Barium as a chloride, nitrate or carbonate was irradiated with the deuteron beam supplied by the College de France cyclotron to a maximum of 5.8 XeV.

1/ IAC Agency, Washington D. C., 20 February 1946 (Secret)

2/ IAC AGENCY, Washington D. C., 21 May 1946 (Secret)

3/ IAC Agency, Washington, D. C., undated (Secret)

4/ IAC Agency, Washington, D. C., 12 February 1945 (Secret)



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#### MAURER, W.

Author of the following articles in German journals.

"Investigations of radioactive copper as an indicator for experiments on animals." Naturwissenschaften, Vol. 30, No. 49-52, pp. 589-590 (Dec. 3, 1943). With G. Schubert, H. Vogt, and W. Riezler. "Neutron emission of the uranium nucleus as a result of its spontaneous

fission." Zeitschrift fur Physik, p. 285 (1943). With H. Pose.

"Artificially radioactive isotopes of lead and its neighboring elements obtained from uranium and thorium lead." Zeitschrift fur Physik, Vol. 119, pp. 602-629 (Sept. 25, 1942). With Wolfgang Ramm.

"The 19-minute isotope of molybdenum and the isotope of element 43 produced therefrom. " Zeitschrift fur Physik, Vol. 119, pp. 554-551 (July 31, 1942). With Wolfgang Ramo.

"Experiments on fluorescence radiation of helium and the conservation of spin at impacts of the second kind between excited and normal helium atoms." Zeitschrift fur Physik, Vol. 115, No. 7-0, pp. 410-430 (1940). With R. Wolf.

"Light excitation by ion and atom collisions." Physikalische Zeitschrift, Vol. 40, pp. 161-181 (March 1, 1939).

"Transformation of B by slow neutrons." Zeitschrift fur Physik, Vol. 112, No. 7-8, pp. 436-452 (1939). With J. B. Fisk.

"Longest range proton group in the disintegration of boron by alpha particles." Zeitschrift für Physik, Vol. 107, No. 7-0, pp. 509-512 (1937). With H. Maier-Leibnitz.

"Muclear transformations and cosmic radiation." Zeitschrift für technische Physik, Vol. 18, No. 12, pp. 538-541 (1937) and Physikalische Zeitschrift, Vol. 38, pp. 964-967 (Dec. 1, 1937). With W. Bothe, W. Gentner, H. Maier-Leibnitz, E. Wilhelmy, and K. Schneiser.

"Excitation function and energy distribution of neutrons emitted from boron by bombardment with alpha particles." Zeitschrift fur Physik, Vol. 107, No. 11-12, pp. 721-729 (1937).

"Light excitation by bonbardment of positive caesium ions by helium atoms." Zeitschrift far Physik, Vol. 104, No. 1-2, pp. 113-121 (1936).

"Light excitation by collision of lithium ions with helium atoms." Zeitschrift fur Physik, Vol. 104, No. 9-10, pp. 655-665 (1937).

"Effective corss-section for excitation of the D-line by collision of Na ions and He." Zeitschrift fur Physik, Vol. 106, No. 7-8, pp. 453-457 (1937). With K. Nehnert.

"Light excitation in helium by collision with rotassium ions." Zeitschrift fur Physik, Vol. 101, No. 5-6, pp. 325-334 (1936).

"Excitation of mercury by bomberdment with Li, Nat, Kt, Rbt, Cat." Physikalische Zeitschrift, Vol. 37, pp. 659-661 (Sept. 15, 1936). With O. Henle.

"Fluorescence of helium and collisions of the second kind by excited helium atoms." Zeitschrift fur Physik, Vob. 92, No. 1-2, pp. 100-115 (Nov. 2, 1934). With R. Wolf.

"Excitation in He by impact of He atoms at O to 6000 v." Zeitschrift fur Physik, Vol. 96, No. 7-0, pp. 409-502 (1935).

834021-1467


BIOGRAPHIC REGISTER

| Name: POHL, Dr. Robert Wickard |   |
|--------------------------------|---|
| Variant:                       |   |
| Allas:                         |   |
| Present Position: Professor,   | Ī |
| Univ. of Gottingen             | 1 |

Uder Klopstock Str 4

Hon. Dr. of Engineering,

Case No. 8010554 Date: 19 July 1948

Birthdate: 10 August 1884 Birthplace: Hamburg

Location: Bunsen Strasse 10, Nationality: German Gen. Occupation: Experimental White Race: Education: Ph.D., Berlin 1906; Male Sex:

Marital Status: Married Name of Spouse: Tusca Madelung

Children: Two girls, one boy

Honors:

Publications:

physicist

Breslau Languages:

# Religion: Protestant Political Affiliation:

Dr. Robert Pohl, German physicist, was last reported (October 1947) as being at the University of Gottingen. 1/ A relative of the fanous 17th century astronomer Johann Kepler, Pohl received his doctorate from the University of Berlin in 1906. He later lectured there in 1911 and in 1916 became a professor at the University of Gottingen. From 1920 until the last war, Pohl was the Director of the Physics Institute at that University. He is the author of books on "Introduction to Physics"; "Lessons in Electricity", U927); and "Mechanics and Acoustics", (1930). and has published a number of articles on light and electricity. 2/

Co-editor with Prof. von Lene of Zeitschrift Far Physik, an American licensed scientific publication, Pohl has also been reported as collaborating with Prof. Mollwo on lectures on certain phases of "Electricity and Optics" during the 1947-40 winter semester at the University of Göttingen. 3/

Based on an analysis of his prewar work Pohl had been rated during the war as fairly high among the German scientists 4/ and lately was included in a list of German scientists who were thought to be the outstanding men in the field of nuclear research. 5/

IAC Agency, Washington, D. C., undated, (Secret) 1/ IAC Agency, Washington, D. C., undated, (Secret), 2/ LAC Agency, Washington, D. C., undated, (Secret), 3/ IAC Agency, Washington, D. C., undated, (Secret) 4/ LAC Agency, Washington, D. C., undated, (Secret), 5/

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#### BIOGRAPHIC REGISTER

| Name: RIEZLER, Frof. Dr. Wolfgang<br>Variant: RIETZLER<br>Alias:  | Case No. 8010555<br>Date: 19 July 1948  |
|---|---|
| Fresent Position: Lecturer at the<br>Univ. of Bonn<br>Location: Bonn Nuss Ailee 6   | Birthdate: 1905<br>Birthplace:  |
| Gen. Occupation: Physicist  | Nationality: German   |
| Education:  | Race: White<br>Sex: Male<br>Marital Status:<br>Name of Spouse:                      |
| Languages:  | Children:   |
| Honors:   |   |
| Publications:   | Religion:   |
|   | Political Affiliation:  |
| When the University of Cologne was e<br>the group to Garmisch-Partenkirchen.<br>Specializing in the scattering<br>neutrons 3/ and radio active isotope<br>F. F. Kirchner, former professor of | e Paris cyclotron during 1942-44. 5/<br>vacuated in 1945, Riezler accompanied<br>1/ |
| University of Cologne as a "good phy  | sicist". 2/   |
| In April 1946, Riesler attended<br>held at St. Louis, France and discuss<br>Sauter a report given by Prof. W. Do  | sed at length with Prof. F.   |
|   | ticles some of which are listed   |
| "Introduction_to Nuclear_Physics  | s <sup>K</sup> , 1942.  |
| "Testing of SF6 as Filler of Ior  | nization Chambers", Verh D. Phys. Ges, 1939.  |
| "Absorption of C. Neutrons in Re  |   |
| "Peculiar Behavior of the Effect  | tive_Cross-Sect. of Uranium for   |
| Approved for Release<br>Date 7 NOV 1985   |   |

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RIEZLER, Prof. Dr. Wolfgang

Slow Neutrons", 1942.

"Influence of the Layer Thickness of the Measurement of Working Cross Sections of Slow Neutrons", 1942.

"Absorption Cross Section of Metallic Uranium for Slow Neutrons", 1941.

"Activation of Xenon by Neutrons", 1943. 1/

In December 1947 Riezler was included in a list of German scientists who were thought to be the outstanding men in the field of nuclear research. 5/

1/ IAC Agency, Washington, D. C., undated, (Secret)

2/ IAC Agency, Washington, D. C., 3 September 1946, (Secret)

3/ IAC Agency, Washington, D. C., 21 May 1946, (Secret)

4/ IAC Agency, Washington, D. C., 5 May 1947, (Secret)

5/ IAC Agency, Washington, D. C., 19 December 1947, (Secret)

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| Name: STARKE, Dr. Kurt<br>Variant:<br>Allas:  | Case No. 8061537<br>Date: 19 July 1948  |
|---|---|
| Present Position:   | Birthdate: 1911<br>Birthplace:  |
| Location: Im Baeckerfeld, Heidelberg<br>(April 1947)<br>Gen. Occupation: Nuclear chemist  | Nationality: German   |
| Education:  | Race: Write<br>Sex: Male<br>Marital Status: Unmarried   |
| Langueges:  | Name of Spouse:   |
| Eonors:   | Children:   |
| Publications:   | Religion;   |
| ·····   | Political Affiliation:  |
| water production experiments with Clusius<br>with Mme. Hoh Zah Wei, radium researcher a<br>In December 1946 he wrote Mme. Zah Wei inf<br>German scientists enclosing copies of scie<br>he stated he had not found a position which<br>U.S. Zone and evidenced a hope that he would<br>U.S.A. 5/ | tron during the war and also<br>and the chemical properties of<br>t 93 with Prof. Hahn and on heavy<br>4/ and has had some association<br>t the Joliot-Curie Institute.<br>orming her of the activity of<br>ntific treatises. At that time<br>b he liked, could not leave the |
|   | pactive Isotopes & Isomers", 1941.  |
|   | Oactive Uranium Isotope 92 U 239  |
| "Washing-out and Rectification<br>1942, with Chusius.   | of H2 - HD - D2 Mixtures", February   |
| Approved for Belease  | 834021-1471   |

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STARKE, Dr. Kurt (cont.)

"Theory of Fractional Distillation of  $H_2 - HD - D_2$  Mixtures", with Clusius, June 1942.

In December 1947 Starke was included in a list of German scientists who were thought to be the outstanding men in the field of nuclear research. 6/

1/ IAC Agency, Washington, D. C., 21 May 1946 (Secret)

2/ IAC Agency, Washington, D. C., 29 April 1947 (Secret)

3/ IAC Agency, Washington, D. C., 22 July 1946 (Secret)

4/ IAC Agency, Washington, D. C., undated (Secret)

5/ IAC Agency, Washington, D. C., 16 January 1947 (Confidential)

6/ IAC Agency, Washington, D. C. 19 December 1947 (Secret)



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CENTRAL INTELLIGENCE AGENCY WASHINGTON 25, D. C.

6 July 1951

1.3(2)(4)

MEMORANDUM FOR Colonel Daniel E. Ellis, USAF, Director, Joint Intelligence Objectives Agency

SUBJECT

- - -

: Information Report No.

1. With reference to your request of June 26, 1951 to Mr. Arthur H. Alexander, (reference JIOA 1024) there is attached for your attention a copy of Information Report No.  $(4)^{-1}$ 

0.\_STRONG Ρ.

CIA Mise. Extra Copies

Approved for Release Date 7 NOV 1985



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| Approved for Release: 2022/06/22 C   | ,   |
|--|---|
| CLASSIFICATION CENTRAL INTELLIGENCE AGENCY   | REPORT NO.  |
| INFORMATION REPOR  |   |
| COUNTRY Germany (Western Zone)   | DATE DISTR. 23 May 10   |
| SUBJECT German Guided Missiles Experts Potentially<br>Available for Employment in the US   | NO. OF PAGES 4  |
| PLACE<br>ACQUIRED  | NO. OF ENCLS.   |
| DATE<br>ACQUIRED BY SOURCE 1932-51   | SUPPLEMENT TO<br>REPORT NO.   |
| DATE OF INFORMATION 1 Vay 51<br>GRADING OF SOURCE BY OFFICE OF ORIGIN SO   |   |
| COMPLETELY USUALLY FAIRLY NOT USUALLY RELIABLE RELIABLE RELIABLE RELIABLE RELIABLE RELIABLE TRUE TRUE TRUE   | ABLY POSSIBLY DOUBTFUL PROBABLY BE<br>TRUE DOUBTFUL PROBABLY BE<br>JUDGED   |
| A. Β. Χ. C. D. Ε. F. 1. 2.   | <b>X</b> 3. 4. 5. 6.  |
| THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE<br>OF THE UNITED STATES WITHIN THE WEAKING OF THE ESPICIANCE ACT SO<br>U S C 31 AND 32 AS ABENDED. ITS TERNSWISSION OR THE REVELATION<br>OF ITS CONTENTS IN ANY BANNER TO AN UNAUTHORIZED PARSON IS PRO-<br>NIBITED BT LAB. REPRODUCTION OF THIS FORM IS PROVIDITED.                           | IS UNEVALUATED INFORMATION  |
| SOURCE   |   |
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| <ol> <li>During the years 1932-45 the Germans_built_up, end highly skilled and thoroughly trained group of gincluded scientists, engineers, technicians and World War 1T, these experts were dispersed. The men than any other nation. Smaller groups went Army, in its Operation "Paperclip", brought a lillarge reservoir still remains in Germany.</li> </ol> | foremen. After the close of<br>USSR secured more of these<br>to the UK and France. The US   |
| <ol> <li>An acute shortage of men, skilled in this field,<br/>accelerated guided missile program. This shorts<br/>A long time and a great deal of money are requir<br/>necessary foundation for this work. Such men ar<br/>the outlook, from the standpoint of technical per</li> </ol>  | age will increase in the future.<br>red to train men having the   |
| 3. To bring a large number of experts from the Germ  | ton to this bottleneck would be<br>man reservoir to work on the<br>such a group could be recruited,<br>ble to any guided missile program,<br>of the men concerned are |
| 4. Following is a list of 32 men of exceptional pro<br>excressed a desire to come to the US.   | mise who have, in the past,   |
| Name Last (Known Addr.   | ess <u>Comments</u>   |
| ) Dip The Brich Approved for Release: 2022/06/22 C   | 00010786  |

| DATE   |   |  | Δr   | pproved fo  | r Release   | 3: 2022/0  | 6/22 000  | (LISTEI   | D BELOW)   | • I   |  |
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| SOURCE   |   |  |  | . / -   |   |  |   |   |  |   |  |
| 3(a)(4)  |   |  |  |   |   |  |   |   |  |   |  |
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| •  |   | elerated g<br>ong time s<br>essary fou<br>outlook,   | guided-m<br>and-a:gre<br>undation            | issile p<br>eat deal<br>for this  | of mone;<br>swork,  | This s<br>y are r<br>Such m  | hortage<br>equired<br>en are a  | will in<br>to train<br>also in a  | crease i<br>n men ha<br>short su   | n the full  | uture.   |
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| (a) (G)<br>C<br>4  | to to<br>US a<br>when<br>extr<br>and<br>Foll<br>exor<br>2)<br>t to Relation   | bip Ing Ri   | a list of desire-to                          | ogram.<br>ons,_that<br>man_expented to the<br>desire to<br>of 32 mer<br>c.come_to<br>chem | Last U<br>US 2<br>June  | rom the<br>prove v<br>r not.<br>ct on w<br>to the<br>eptiona   | German<br>succession<br>aluable<br>Most of<br>hich the<br>US.<br>l promise<br>Address<br>/Teck<br>g   | reservoi<br>ch a grou-<br>to any (<br>r the men-<br>sy have s<br>se who ha<br>in<br>in<br>Ch<br>de<br>Bo              | ir to wo<br>up could<br>guided m<br>n concern<br>spent so<br>ave, in<br><u>Commu</u><br>nventor on<br>tercepto<br>nief of t<br>svelopmen<br>odenbach | ents<br>of the rock   | he<br>ruited,<br>program,<br>ears<br>t<br>famous<br>er<br>set<br>chmidding |

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|---------------------------------------|---------------------------------|--|---|
|                                       | Name                            | Last Known Address   | Consents  |
| 3)                                    | Ing Herbert Borchert            | Berlin-Spandau<br>Askanierring G II  | Better than average designer, tools and fixtures.   |
| 4)                                    | Dipl Ing Friedrich<br>Brandner  | Frau Irmgard Grass<br>(20) Wattierzoll<br>uber Boorssum<br>Zuckerfabrik              | Excellent automatic pilot<br>and servo man.   |
| 5)                                    | Ing Alfred Diehl                | (13b) Augsburg<br>Lessingstr 10  | Very good designer and test<br>engineer worked on Hc 176,<br>178, Me 163, 263. For long<br>years employee of Messerschmidt              |
| 6)                                    | Ing Hans E P Fahlbusch          | Hamburg 13<br>Isestr 89  | Stress analyst Junkers,<br>Hentschel, Messerschmidt,<br>Blohm and Voss.   |
| ?)                                    | Ing Rolf Falks                  | Aachen<br>Maltheserstr 13  | Very good electrical engineer.<br>Special experience in Water-<br>fall test stand instrumenta-<br>tion.                                 |
| 8)                                    | Dr Werner Fricke                | (16) Wanfried/Werrs<br>Schlagdstr 22   | Leading development engineer,<br>Rheintochter.  |
| 3                                     | Dr Ing S J Gievers              | 2 Princess Gardens<br>London S W 7   | One of the best auto-pilot<br>and servo men. Kreiselgerete<br>m b H. Now back in Germany.<br>Address unknown.                           |
| ; 10)                                 | Dr Ing Johannes<br>Goerner      | (21b) Iserlehn<br>Wellstr 48   | Creative and very good<br>electrical engineer.<br>Anschütz timer development<br>for V2 and Waterfall.                                   |
| · · · · · · · · · · · · · · · · · · · | Ing Kurt Graupe                 | (14a) Geislingen/<br>Steige<br>Kepplerstr 36<br>bei Pfeiffenberger                   | Excellent mathematician for<br>calculation of electrical<br>control instruments. For<br>years Peenemuende, preliminary<br>design group. |
|                                       | Ing Alfred Haut                 | (24b) Sophien<br>Magd Koog<br>Post Bredstedt<br>Uv Husum                             | Very good engineer for elec-<br>trical and pneumatic valve<br>design.   |
| 13)                                   | Dipl Ing Johannes<br>Hillermann | (24a) Luebeck-<br>Travemuende<br>Priwall, Waldweg 172                                | Good test engineer. Vibra-<br>tion expert. Worked at Peene-<br>muende-West with Walther-<br>Keil, Gotenhafen and D V L.                 |
| 14)                                   | -                               | Stuttgart-Zuffen-<br>hausen<br>Markomannenstr 35<br>/ed for Release: 2022/06/22 C000 | Chief test engineer for gas<br>generating plants and turbine<br>pumps. Peenemuende.<br>10786  |

|                                       | ٨٥٥٢                            | oved for Beleese: 2022/06/22 C00                                   | years employee of Messerschmidt  |
|---------------------------------------|---------------------------------|--|--|
| 6)                                    | Appi<br>Ing Hans E P Fahlbusch  | oved for Release: 2022/06/22 C00<br>Hamburg 13<br>Isestr 89        | Stress analyst Junkers,<br>Hentschel, Messerschmidt,<br>Blohm and Voss.  |
| 7)                                    | Ing Rolf Falke                  | Aachen<br>Maltheserstr 13  | Very good electrical engineer.<br>Special experience in Water-<br>fall test stand instrumenta-<br>tion.                                    |
| 8)                                    | Dr Werner Fricke                | (16) Wanfried/Werrs<br>Schlagdstr 22                               | Leading development engineer,<br>Rheintochter.   |
| 3 L3 9)<br>                           | Dr Ing S J Gievers              | 2 Princess Gardens<br>London S W 7                                 | One of the best auto-pilot<br>and servo men. Kreiselgerete<br>m b H. Now back in Germany.<br>Address unknown.                              |
| · 10)                                 | Dr Ing Johannes<br>Goerner      | (21b) Iserlehn<br>Wallstr 48                                       | Creative and very good<br>electrical engineer.<br>Anschütz timer development<br>for V2 and Waterfall.                                      |
| 11)                                   | Ing Kurt Graups                 | (142) Geislingen/<br>Steige<br>Kepplerstr 36<br>bei Pfeiffenberger | Excellent mathematician for<br>calculation of electrical<br>control instruments. For<br>years Peenemuende, preliminary<br>design group.    |
| 12)                                   | Ing Alfred Haut                 | (24b) Sophien<br>Magd Koog<br>Post Bredstedt<br>Uv Husum           | Very good engineer for elsc-<br>trical and pneumatic valve<br>design.  |
| 13)                                   | Dipl Ing Johannes<br>Hillermann | (24a) Luebeck-<br>Travemuende<br>Priwall, Waldweg 172              | Good test engineer. Vibra-<br>tion expert. Worked at Peene-<br>muende-West with Walther-<br>Keil, Gotenhafen and D V L.                    |
| 14)                                   | Ing Udo Heubuer                 | Stuttgart-Zuffen-<br>hausen<br>Markomannenstr 35                   | Chief test engineer for gas<br>generating plants and turbine<br>pumps. Peenemuende.  |
| 15)                                   | Ing Joachim von<br>Koeller      | (24) Lieth bei<br>Ehnshorn/Holst<br>Zigelei Rotenhelm              | Designer with Heinkel Aircraft<br>Corp since 1935 guided missles.<br>Walther-Kiel-VI booster.<br>Specialist in steam generating<br>plants. |
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|             | Name                        | Last Known Address  | Comments   |
|-------------|-----------------------------|---|--|
| <b>16)</b>  | Ing Albert Kowall           | Hameln<br>Kaelberanger 3<br>Germany British Zone                    | Excellent tool, fixture and<br>production line planner and<br>designer. Long years in<br>Peenemuende.  |
| 17)         | Dr Goldmann                 | C Lorenz A G<br>Landshut/Bayern                                     | Specialist in radio control<br>and navigation.   |
|             | Dr O H Langs                | De Braye House<br>53 Alexandria Rd<br>Farnborough<br>Hants, England | A-1 radio, radar and guidance<br>expert "Wurgburg" for Water-<br>fall. Still in England, but<br>wants to come to the US.                       |
| 19)         | Dipl chem Norbert Loft      | (20) Bad Grund<br>Harz  | Excellent combustion expert<br>for rocket propellants.   |
| ~ 20)       | Dr Ing Werner Oschatz_      | Basel, Switzerland<br>Hirzbrunnenstr 9                              | Excellent expert injection<br>problems diesel engines,<br>motors, combustion chambers.<br>Technical assistant at the<br>University of Dresden. |
| 21)         | Dipl Ing Hermann<br>Pitzken | Geesthacht/Elbe<br>Waldstrasse<br>Holzhaus_8                        | Excellent expert in solid<br>rockets. For long years<br>chief in the German Board<br>of Ordnance.  |
| V22)        | Ober.Ing Walter<br>Riedel   | RPD RAE Westcott<br>near Aylesburg.<br>(Bucks)<br>England           | Top man. Chief designer for<br>guided missiles at Peenemuend<br>from 1936-42. Wants to come<br>to US.  |
| 23 <u>)</u> | Ing Heinz Schley            | Bad Schwartau b<br>Luebeck, Peterstr<br>G                           | Experienced test engineer,<br>V1, Rheintochter, Water<br>power plants. Peenemuende-<br>West.   |
| 24)         | Dr Johannes Schwab          | Hegnach bei Stuttgart<br>Hauptstr 1                                 | Excellent expert in ground<br>handling equipment. In<br>the guided missiles business<br>since 1936.  |
| 25)         | Obering Paul Stang          | Berlin-Charlotten-<br>burg 9<br>Skirenweg 7 bei<br>W Binder         | Laboratory chief for remote<br>control instrument develop<br>ment at Goerken (Hawai<br>Palermo and Osterhasel)                                 |
| 26)         | Dipl Ing Rudolf<br>Urtel    | c/o Distler 1.<br>Neue Strasse 4<br>Erlangen b Nuernberg            | Television, radar<br>guidance expert, A-1 man.   |
| - 27)       | Dr Fritz Runge              | Rawlfn  | er rader quidence men.   |

- 27) Dr Fritz Runge Approved for Release: 2022/06/22 C00010786, radar guidance man.

|       | Approx                      | 53 Alexandria Rd  | expert "Murgourg" for Water-<br>00010786 Still in England, but<br>wants to come to the US.   |
|-------|-----------------------------|---|--|
|       | , (PP) 3                    | nante, Angland  | wants to come to the US.   |
| 19)   |                             | (20) Bad Grund<br>Harz                                      | Excellent combustion expert<br>for rocket propellants.   |
| ~ 20) | Dr Ing Werner Oschatz       | Basel, Switzerland<br>Hirzbrunnenstr 9                      | Excellent expert injection<br>problems diesel engines,<br>motors, combustion chambers.<br>Technical assistant at the<br>University of Dresden. |
| 21)   | Dipl Ing Hermann<br>Pitzken | Geesthacht/Elbe<br>Waldstrasse<br>Holzhaus 8                | Excellent expert in solid<br>rockets. For long years<br>chief in the German Board<br>of Ordnance.  |
| V22)  | Ober_ing Walter<br>Riedel   | RPD RAE Westcott<br>near Aylesburg<br>(Bucks)<br>England    | Top man. Chief designer for<br>guided missiles at Peenemuend<br>from 1936-42. Wants to some<br>to US.  |
| 23)   | Ing Heinz Schley            | Bad Schwartau b<br>Luebeck, Peterstr<br>G                   | Experienced test engineer,<br>V], Rheintochter, Water<br>power plants. Peenemuende-<br>West.   |
| 24)   | Dr Johannes Schwab          | Hegnach bei Stuttgart<br>Hauptstr 1                         | Excellent expert in ground<br>handling equipment. In<br>the guided missiles business<br>since 1936.  |
| 25)   | Ober Ing Paul Stang         | Berlin-Charlotten-<br>burg 9<br>Skirenweg 7 bei<br>W Binder | Laboratory chief for remote<br>control instrument develop  |
| 26)   | Dipl Ing Rudolf<br>Urtel    | c/o Distler 1<br>Neue Strasse 4<br>Erlangen b Nuernberg     | Television, radar-<br>guidance expert, A-1 man.  |
| - 27) | Dr Fritz Runge              | Berlin<br>Telefunken 🛦 G                                    | Top radar guidance man.<br>Department chief with<br>Telefunken & G   |
| 28)   | Dr Ing Otto Waltz           | Firma Woellnerwerke<br>Ludwigshafen/Rhein<br>French Zone    | Specialist in turbine<br>pumps for guided missiles.  |
| 29)   | Prof Hans Wierer            | Tech Hoch Graz<br>Austria                                   | Outstanding expert in all<br>guided missile electronics.<br>Peenemuende  |
|       | . 7                         |   | 834021-1576  |

| Namo   | Last Known Address                                  | Comments   |
|--|---|--|
| 30) Dr Helmut Winkler<br>Ing Sammeck) Team<br>Baltzer) | (24b) Greiff Werke<br>Halen/Wuerttemberg            | Outstanding team in the<br>development of acid<br>proof woven plastic tanks<br>for guided missiles.  |
| 31) Dr Ernst Wischhoefer                               | (13b) Schwaigen N7<br>Post Eschenlohe<br>Oberbayern | Chief stress engineer at<br>Peenemuende. Excellent.  |
| 32) Dipl Ing <u>Ralph von</u><br>Wolff                 | Preiburg i B<br>Immentalstr 46                      | For long years static test<br>engineer for modern aircraf<br>especially jet driven inter<br>ceptors. |

5. A list of 600 additional German specialists and all pothis list was previously employment in the US is contained in the enclosure. This list was previously submitted to the Army and Air Force Intelligences in January 1946. Ten of these men were brought in by Operation "Paperclip" and are marked "US".

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6. The addresses in the 32 man list above are probably mostly correct. The 600 name list is now five years old, so it is probable that most of the addresses are no longer valid. The present location of these men would have to be determined by investigation in Germany.

-End +

Enclosure: List of Guided Missiles Engineers, Technicians and Skilled Workers.

Oberbayern Approved for Release: 2022/06/22 C00010786 for long years static test 32) Dipl Ing Ralph von engineer for modern aircrai Immentalstr 46 Wolff especially jet driven inter ceptors. 5. A list of 600 additional German specialists who are potentially available for employment in the US is contained in the enclosure. This list was previously submitted to the Army and Air Force Intelligences in January 1946. Ten of these men were brought in by Operation "Paperclip" and are marked "US", (a) The addresses in the 32 man list above are probably mostly correct. The 600 name list is now five years old, so it is probable that most of the addresses 6. are no longer valid. The present location of these men would have to be determined by investigation in Germany.

--End +

Enclosure: List of Guided Missiles Engineers, Technicians and Skilled Workers.

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## List of Guided Missiles Engineers, Technicians and Skilled Workers

# 1. The abbreviated titles used in this list have the following significance:

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Dr Ing - Doctor of Engineering Dipl Ing - Master of Engineering Ing - Technician F M - Fine mechanic or skilled foreman

- This list is presented in the form in which it was submitted to Air Force Intelligence in January 1946. It contains the last known addresses of the men concerned. Many, if not most, of the addresses are probably no longer correct.
- 3. A supplementary list is provided in which the names are listed alphabetically under each professional classification. The numbers provide a cross reference and show up the duplications.
- 4. "US" after the names indicates that the man was brought to the US under Operation "Paperclip". "A" after the name-indicates that the man was under active consideration for Euntsville (when "Paperclip" was terminated.

5. The men in the first column are preferred. Those in the second column are alternates.

List of Names As Originally Submitted

| 1. | HAEUSERMANN, Walter, Dr Ing - US | la. KAGKKER, Anton, Dipl Ing       |
|----|----------------------------------|------------------------------------|
|    | Jugenheim a d Bergstrasse        | Straubing/Bayern                   |
|    | Zwingenbergerstr 9               | Innere Passauerstr 37, bei Kette   |
| 2. | SBIDLBOECK, Alfred, F M          | 2a. HUETTENBERGER, Willi, F M      |
|    | Reinfeld/Guelzen oder            | Landshut                           |
|    | Russdorf/Inn, Rosenheim Land     |                                    |
|    | Gutshaus Weidenbach              |                                    |
| ٦. | RAITHEL, Wilhelm, Dr Ing - US    | 3a. KAISER, Hans, Dipl Ing         |
|    | Hoechst/Nidda/Oberhessen         | c/o Teubold                        |
|    |                                  | Brlangen                           |
|    |                                  | Brueckerstr 26                     |
| 4. | OSTHOFF, Leopold, Ing - US       | 4a. PITSCHMANN, Ernst, Dipl Ing    |
|    | Bielefeld                        | Witzenhausen                       |
|    | Benteler Werke                   | Goldener-Loewe                     |
| 5. | WALTHER, Alvin, Prof Dr          | 5a. KOX, Hans, Dr Phil             |
|    | Dernstedt                        | Hamburg-Bergedorf                  |
|    | Technische Hochschule            | Sternvarte                         |
|    | Mathematisches Institut          |                                    |
| 6. | BRINKNANN, August, F M           | 6a. GROBSER, Willi, F M            |
| -  | Ahlen/Westf                      | Landshut                           |
|    | Gemmericherstr 49                |                                    |
| 7. | KOENIG, Rudi, Ing                | 7a. OTT, Albert, F M               |
| •  | c/o Dr P Schlechter              | Wuermen bei Pforzheim oder         |
|    | Niederbeerbach bei Dermstadt     | c/o Krause, Eschvege               |
|    | Obergasse 2                      | Ottostr 8                          |
| 8. | HEROLD, Ing                      | 8a. HEINISCE, Kurt, Ing            |
|    |                                  | 2022/06/22 C00010786 <sup>11</sup> |

- 2. This list is presented in the form in which it was submitted to Air Force Intelligence in January 1946. Approved for Release: 2022/06/22 C00010786 the men concerned. Many, if not most, of the addresses are probably no longer correct.
- 3. A supplementary list is provided in which the names are listed alphabetically under each professional classification. The numbers provide a cross reference and show up the duplications.
- 4. "US" after the names indicates that the man was brought to the US under Operation "Paperclip". "H" after the name indicates that the man was under active consideration for Huntsville (when "Paperclip" was terminated.
- 5. The men in the first column are preferred. Those in the second column are alternates.

List of Names As Originally Submitted

| 1. | HAEUSERMANN, Walter, Dr Ing - US<br>Jugenbeim a d Bergstrasse | la. KAGEKER, Anton, Dipl Ing<br>Straubing/Bayern |
|----|---|--|
|    | Jugennera a u pergarase                                       | Innere Passauerstr 37, bei Kette                 |
|    | PAIRSencer Rev p or 2   |  |
| 2. | SRIDLBOECK, Alfred, F. M                                      | 2a. HUETTENBERGER, Willi, F N                    |
|    | Reinfeld/Guelzen oder   | Landshut   |
|    | Nussdorf/Inn. Rosenheim Land                                  |  |
|    | Nussdorf/Inn, Rosenheim Land<br>Gutshaus Weidenbach           | · · · ·  |
|    |   |  |
| 3. | RAITHEL, Wilhelm, Dr Ing - US                                 | 3a. KAISER, Hens, Dipl Ing                       |
|    | Hoechst/Nidda/Oberhessen                                      | a la marchald                                    |
|    |   | Brlangen   |
|    |   | Brueckerstr 26                                   |
|    | i   |  |
| 4. | OSTHORY Leonold, Ing - US                                     | 4a. PITSCHMANN, Ernst, Dipl Ing                  |
|    | Bielefeld   | Witzenhausen                                     |
|    | Benteler Werke  | Witzenhausen Goldener Loeve                      |
|    | Denvelet werke  |  |
| ۲  | WATTHER Alvin Prof Dr   | 5a. KOX, Hans, Dr Phil                           |
|    | Darnstadt   | Hamburg-Bergedorf                                |
|    | Technieche Hochschule   | Sternvarte                                       |
|    | Mathematisches Institut                                       |  |
|    |   |  |
| 6. | BRINKMANN, August, F.M.                                       | 6a. CROSSER, Willi, F M                          |
|    | Ahlen/Westf   | Landshut   |
|    | Gemmericherstr 49   |  |
|    |   |  |
| 7. | KOENIG. Rudi. Ing   | 7a. OTT, Albert, F M                             |
| 1  |   | the same had the sheat a start                   |
|    | Niederbeerbach bei Darmstadt                                  | c/o Krause, Eschwege                             |
|    | Obergasse 2   | Ottostr 8  |
|    | <b>VIII</b> 8   |  |
| 8. | HKROLD, Ing   | 8a. HEINISCH, Kurt, Ing                          |
|    | Coburg (13b)  | Landshut   |
|    | Rosenarerstr 28   |  |
|    |   |  |
| 9. | KUNZ, Heinrich, F M   | 9a. BILER, F M                                   |
|    | Darmstadt   | c/o Mang   |
|    | Am Tiefen See 16  | Preilassing/Bayern                               |
|    |   | Am Sonnenfeld 30                                 |
|    |   |  |

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|  | Raciosure   |
|  | 2 -   |
|  | -   |
| 0. WINGENSIEFEN, Hans, Dipl-Ing                                | <u> </u>  |
| Koeln-Klettenberg<br>Lohrbergstr 22                            | Pirma Bizerba   |
|  | lla. NEUBERT, Herbert, F M  |
| 11. LINDENLAUB, Karl, F M<br>Darmstadt-Arbeiligen<br>Beckstr 3 | Landshut  |
|  | 120 GIFFREUND F M   |
| 12. EGGERTH, Eugen, F M  |   |
| Rosdorf 226 bei Goettingen                                     | Darmstadt   |
|  | Am Tiefen See 16  |
|  | 13a. SEIFFERT, Erich, Ing   |
| 13. HESELMANN, Ing<br>c/o Dr/ Y Schlechter                     | <u>Alessen</u>  |
| Niederbeerbach bei Darmstadt                                   |   |
| Obergasse 2  | c/o Tuebbecke, Witzenhausen   |
| 14. PLEINES, F M   | 148. PABST, F M   |
| 14. PLEINES, FA<br>Frankfurt/Main-Sossenheim                   | Trarkfurt/Msin - Hoechst  |
| Schmierstoff-Labor der   | Koenigsteinerstr<br>Gebubbaug Okar h to Ptago                         |
| I G Farben, Frankfurt/Main-Hoechst                             | Koenigsteinerstr<br>Schuhhaus Oker, 4 te Etage                        |
| 15. WEBER, Fritz Horst, Ing                                    | 15a. BUNIE, Hermann, Ing  |
| 15. WERER, Fritz Horst, 198<br>Schlesvig                       | Brackvede bei Bielfeld  |
| Am Flachsteich   | Betriebswerke   |
|  | 16a. HANDEL, Dipl Ing   |
|  |   |
| Bienheim/Rhein   | Wien XI/79  |
|  | Simmeringer Hauptstr 25   |
| 17. WORGERBAUER, Ing - 8                                       | 17a. TUIZ, Hans, Ing  |
| Plugzeugverke Wels, Werk Braun                                 | Voitsburg/Steiermark<br>Grazer Vorstadt 1 oder<br>Graz, Muchlriegel 3 |
| (Waschenberg) Bahnstation Wims-                                | Grøzer-Vorstødt 1 oder  |
| bach oder  | Grez, MueurrieRer D   |
| C+Adalmanra gwischen Wels und                                  | · · ·   |
| Gaunden (Oesterreich, Am Zone)                                 |   |
| _  | 18a. PHILIPSS, Albert, Ing  |
| 18. GROPP, Hans, Ing<br>Bornem/Harz                            | Duisburg-Hamborn<br>Gortherstr_64                                     |
| ueber Bockenem   | Gortherstr-64   |
|  |   |
| 19. HECK, Arno, Ing - US                                       | 198 GERHARDS, Walter, Ing<br>c/o Seiffert                             |
| Landshut   | 61aggan   |
|  | Am Nahringsberg 8 bei Fritsch   |
| :  | oder c/o Dr Bussman, Landshut   |
| 20. KUKRSCHNER, Helmut, Dipl Ing US                            | 20a. HERMANN, Emil Ing  |
| 20. KUKESCHNKR, Kelmut, Dipi ing - 00                          | Heidenheim a d Brenz  |
| Institut Prof Rueter   | 20a HKKMANN, Emil ing<br>Heidenheim a d Brenz<br>Pelsenstr 35         |
|  | 21a GENSSLE, Otto, Ing  |
| 21. LINDENBERG, Erich, Ing - A                                 | Reutlingen  |
| Hamburg<br>Firma "Promonta"                                    |   |
| 22. FISCHER, Kurt, Ing   | 22a. SAMMECK, Albert, Ing   |
| CG. FLITHING AND AND   | Shanshan_Gledhech   |

22. FISCHER, Kurt, Ing Hannover-Linden-Approved for Release: 2022/06/22 C00010786

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TE MEANA & 12. EGGERTH, Eugen, F M c/o Kunz Rosdorf 226 bei Goet Approved for Release: 2022/06/22 C00010786 Am Tiefen See 16 13a. SELFFERT, Erich, Ing 13. HESELMANN, Ing Giessen c/o Dr/ P Schlechter Am Nahringsberg 8 bei Fritsch ode Niederbeerbach bei Darmstadt c/o Tuebbecke, Witzenhausen Obergasse 2 14a. PABST, F M 14. PLEINES, F M Frankfurt/Main - Hoechst Frankfurt/Main-Sossenheim Schmierstoff-Labor der Koenigsteinerstr Schuhhaus Oker, 4 te Etage I G Farben, Frankfurt/Main-Hoechst 15a. BUNTE, Hermann, Ing 15. WEBER, Fritz Horst, Ing Brackwede bei Bielfeld Schlesvig Betriebswerke-Am Flachsteich 16a. HANDEL, Dipl Ing 16. KRAEMER, Franz, Dipl Ing C/O Frau Maria Bendler Bienheim/Rhein Vien XI/79 Simmeringer Hauptstr 25 17a. TUTZ, Hans, Ing 17. WOECERBAUER, Ing - H Voitsburg/Steiermark Flugzeugwerke Wels, Werk Braun Grazer Vorstadt 1 oder (Waschenberg) Bahnstation Wims-Graz, Muchlriegel 3 bach oder . Stadelpaura zwischen-Wels und Gmunden (Oesterreich, Am Zone) 18a. PHILIPSS, Albert, Ing 18. GROPP, Hans, Ing Duisburg-Hamborn Bornem/Harz Gortherstr 64 ueber Bockenem 19. HECK, Arno, Ing US 198. GERHARDS, Walter, Ing c/o Seiffert Landshut Giessen Am Mahringsberg 8 bei Fritsch oder c/o Dr Bussman, Landshut 20a. HERMANN, Emil Ing Heidenheim a d Brenz 20. KUKRSCHNER, Helmut, Dipl Ing - US Heidenheim a d Brenz Darmstadt, Technische Hochschule Felsenstr 35 Institut Prof Hueter 21a GENSSIE, Otto, Ing 21. LINDENBERG, Erich, Ing - H Reutlingen Hamburg Firms "Promonts" SCHER, Kurt, Ing Hannover-Linden-Badenstedt Nuenchen-Gladbach 22. FISCHER, Kurt, Ing Koertingsdorf 23a. LANG, Fritz, Ing 23. KLEIN, Manfred, Ing Landshut Landshut

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Enclosure

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|--|--|
|  | Alfred, F M  |
| and Karl Dipling   | 24a HEESE, Alfred, F M   |
| 24. BRUFTZEL, Karl, Dipl Ing   | Bechwege 8   |
| Graefelfing-Muenchen   | Ottostrates 8  |
| Artbostr 43  |  |
| and the second | 258. LINKE, Horst, Ing   |
| 25. OESE, Felix, Ing   | c/o Krause   |
| c/o Give   | Eschwege   |
| Gosttingen   | Ottostr 8  |
| Yon Linsingenetr 3   |  |
|  | 26a. KNAUER, Otto, Ing   |
| 26. WINTER, Bernhard, Ing - H  | 20a. Althours - Harburg  |
| Russzelshsin/Kail  | Breimstr 6   |
| Riesenstr 50   | Breims 22  |
| MTGTALE OF EA  | The The  |
| 11C  | 27a. FRANZ, Haza Werner, Ing   |
| 27. KROEGER, Arthur, Ing - US  | Stadthagen/Vertf   |
| Ramp n.5 - heron f   | Staltbagen/Werti<br>Obernstr 43 bei Badtmoeller                                |
| Schlosstr 47   |  |
|  | 28a. JUENGLING, Heinrich, F M  |
| 28. GROTH, F M   | Bad Frankenhausen/Kyffhaeuser  |
| Altenhunder/Westi  | Dow F. Andrew  |
| Gartenstr 39   |  |
| Garbens w 37   |  |
|  | 293. HERGER, Leopold, Ing  |
| 29. SCHUEIZ, Karl, Ing   | Vilderduernosch yst Austority  |
| Siegen oder  | i Oesterreich  |
| Landshut   |  |
|  | 30a. SCHELICE, Ernst, Dipl Ing   |
| 30. FELLMANN, Eduard, Ing  | Bilden bei Duesseldorf   |
| Arer. Stelendere.  |  |
| Rotthalstr 4, I  |  |
| Ocsterreich  |  |
| Ocsterleich  |  |
|  | 31a. BENEDIX, Walter, Ing  |
| 31. HILTEN, Heinz, Ing   | c/o Fri Lennig   |
| Eppishausen 72   | Waiblingen/Witbg   |
| bei Kirchheim/Schwaben   | Neue Balmhofstr 44   |
| bei Kerler   |  |
|  | 32a. DEUKER, E A, D- ILS   |
| 32. KRAEMER, Fritz, Dipl Ing   | Hernerer Hernerer  |
| Dermsteit  | Technische Hochschule  |
| Gabelsbergerstr 21   | Jecure Constants   |
| Caberaor m   | n an                                       |
| and and all The  | 338. MRAZECK, ALTOD, F M   |
| 33. PFERDIMENJES, Rudolf, Ing  | jandshut   |
| Wigperthal-Barmen  |  |
| Westkotterstr 74   |  |
|  | ales GENRKES, Henry, Ins   |
| 34. REILMARN, Paul, Ing  | 348. GEHRKEN, Heury, Ing<br>Ed Butin/Holetein<br>Ploemerstr                    |
| Straasdorf bei Schwasbisch-unus  | Dicemers it  |
| Haus Kellermann  |  |
|  |  |
| an amultarore Signified. Dr Ing  | 35a BUBBAR, WILLE, Part  |
| 35. SCHWAIGENER, STERITICE,  |  |
| Bruvigas un  | Winterbergsor 1  |
| Hanbiwaunalenne-12 correction  | 35a. SCHEMM, Willi, Dipl Ing<br>Olte/Westf<br>Winterbergstr 1                  |
| · · · · · · · · · · · · · · · · · · ·  | 36a. BERNDI, Rudi, Dipi ing  |
| 36. SCHLECFTER, Petter, Dr. Ing  | c/o Nadee  |
| Niederbeerbach bei Darmstsut   | Witzenhausen (Pa Lusdenke & Storm)   |
| Orergasse 2  | 36a. BERNDI, Rudi, Dipl Ing<br>c/o Madee<br>Witzenhausse (Pa Lusdecke & Storm) |
| $\mathbf{v} = \mathbf{v}$  | 37s. AHRENS, Heinz, F M  |
| 37. PETERS, Kurt   | 378. AHRENS, HELLE, I.   |
| c/c Lindenlauh   | Petropia - management - management   |
| Dermstadt-Arheiligen   |  |
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|  | Bernhard, Ing - JApproved for Relea   | ase: 2022/06/22 C00010786  |
| 26. WINTER,  | Berning, Ing - Dippiered for teles    |  |
| Russze   | lehein/Main                           | Brehmstr 6   |
| Wisser   | 202 KY                                | The The The  |
|  |                                       | 27a. FRANZ, Haza Werner, Ing   |
| 27. KROBGER,   | Arthur, Ing - VS                      |  |
| Hen: UI  | 6-Folome                              | Obernstr 43 bei Badtmoeller  |
| Schlos   | str 47                                |  |
|  |                                       | 28a. JUENGLING, Heinrich, F M  |
| 28. GROTH, I   |                                       | Bad Frankenbausen/Kyffhaeuser  |
| 20. GRUIA, B   | under/Wests                           | Bog Frankemization of the  |
| ALCOM  |                                       |  |
| Garte  | astr 39                               | •• •   |
|  | an ang 🔔 🔔                            | 293. HERGER, Leopold, Ing  |
| 29. SCHUETZ  | , Karl, Ing                           | Wildenduerboach bei husunn mo  |
| Siege  | n oder                                | i Oesterreich  |
| Lands  | hut                                   | • •••  |
|  |                                       | 30a. SCHELICH, Ernst, Dipl Ing   |
|  | N, Eduard, Ing                        | 30a. SCHELICE, Erlist, Dipi and<br>Bilden bei Daesseldorf  |
| 30. YELLMAN  | atetermerk                            | Bliden Det Dursserungs   |
| Grai,  | Stelermark                            | Hoffeldstr 49  |
| Botth  | alstr 4, I                            | the second state of the se |
| Oeste  | rreich                                |  |
|  |                                       | 31a. BENEDIX, Walter, Ing  |
| 21 RTT.MEN.  | Heinz, Ing                            | c/o Frl Lehnig   |
| و مطلبی میں<br>محمد ا  | shausen 72                            | U/V. SAL AVALUE  |
| Flore  | (irchheim/Schwaben                    | Waiblingen/Wttbg   |
| bel l  | TLOURS IN DANKA AND                   | Neue Balmhofstr 44   |
| bei l  | Kerle:                                |  |
|  | ·                                     | 32a. DEUKER, E A, Dr Ing   |
| 32. KRAEME   | R, Fritz, Dipl_Ing                    | TAPBATET   |
| Darm   | stait                                 | Technische Hochschule  |
| <u>Kahe</u>  | løbergerstr 21                        |  |
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|  | MERJES, Rudolf, Ing                   | 338. MRAZECK, Anton, F M   |
| 33. PFEBUI   | erthal-Barmen                         | Landsbut   |
| Aut.   |                                       |  |
| West   | kotteretr 74                          |  |
|  | -                                     | 34a GEHRKEN, Henry, Log<br>Eutin/Holstein  |
| 34. REILM  | BN, Paul, Ing                         | Futin/Holstein   |
| Stra   | PSETOLI DET DETATION OF               | Ploemeratr   |
| HEU  | s Kellermann                          | n na   |
|  |                                       | 35a. SCHEMM, Willi, Dipl Ing   |
| SE OMUL  | IGERER, Siegfried, Dr Ing             | 578. DUDDIN, HAAF J TA   |
| 6 A  | もも からやげ 山田                            | Olte/Weitt   |
| Stu  | ptmannsreuthe 73 bei Eilger           | Winterbergstr 1  |
| Hau  | Dimanuelenne 12 cor 200               | · · · · · · · · · · · · · · · · · · ·  |
|  | •                                     | 36a. BERNDI, Rudi, Dipl Ing  |
| 36. SCHLE  | CFTER, Petter, Dr Ing                 | 36a. BERNDI, Addi, Dipi Los<br>c/o Madee<br>Witzenhausen (Pa Lusdacke & Storm)   |
| Nia  | derbserbach bei Darmstadt             | Witzenhausen (Pa Lusdacke & Storm)   |
|  | rgatte 2                              |  |
| US *   |                                       |  |
|  | a Prost                               | 37a. AHRENS, Heinz, FM   |
| 37. PETE   | S, Kurt<br>Lindenlaub                 | Lerdsbut   |
| ala ala  | 1.indenlaur                           |  |
| Da   | mstadt-Arbeiligen                     |  |
| Ba   | ckstr 3                               |  |
| 1  |                                       | 38a. KRAMAR, Brist, Dipl Ing   |
|  | BERT, Reinbard, Dr Ing                | <b>Fa</b> Lorenz A G   |
| 30. SCHU   | mpten/Allgaeu                         | The Lorenz A Gamma and a second secon |
| <u>k</u> e   | s                                     | Pforzheim  |
| Sa Sa  | lzstr 26                              |  |
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| <b>3</b> 9.   | KIRMAYR, Hans, Dipl Ing  | _39 <b>a</b> . | - CAMINENBERG, Heinrich, Dipl Ing<br>Heelden/Niederrhein |
|---------------|--|----------------|--|
|               | Fiederbeerbach bei Darmstadt   |                |  |
|               | Obergasse 2  |                | Gut Buschhof   |
| 40.           | EIFFLAENDER, Kurt, Dipl Ing  | 40a.           | RUST, Karl, Ing  |
|               | Hannover   |                | c/o Dr Koehler   |
|               | Siegestr 13  |                | Gandersheim bei Kreiensen                                |
|               |  |                | Neuestr 11 oder  |
|               |  |                | Landshut, Dr Busmann/Daniel                              |
| 41            | NOTHE, Herbert, Dipl Ing   | -b1a.          | BICHLER, Martin, Dr. Phil                                |
|               | c/o Prof Walther   |                | Hammenstedt bei Nordheim                                 |
|               | Dermstadt, Techn Hochschule  |                | c/o Pastor Pirrvitz                                      |
|               | by material of the mount of the second secon |                | Fichteveg 28   |
| 42.           | KAYSER, Alois, F M   | 42a.           | ALTMAYER, Wilbelm, F M                                   |
|               | Werl/Westf   |                | c/o Frl Lehnig   |
|               | Biegerstr 4  |                | Waiblingen/Wttbg   |
|               |  |                | Neue Bahnhofstr 44                                       |
| 43.           | HIRN, Max, Ing   | -434.          | ZETTL, Josef, Dipl Ing                                   |
| •             | Hanau/Main   |                | Muenchen 12  |
|               | Bernhardetr 8  | - 1. *         | Bandtnerstr 5  |
| - <b>44</b> . | MEEREFFICE, Kurt, Ing - H  | - 44a.         | KRAFFT, Friedrich, Ing                                   |
|               | Landshut   |                | Mainz oder   |
|               | - · · · ·  |                | Frankfurt/Main oder                                      |
|               |  |                | Landshut, Dr Bussmann/Daniel                             |
| 45.           | KLAMMES, Ferdinand, F N  | 45a.           | SPAHN, Robert, F M                                       |
|               | Soehnstetten/Wttbg <u>oder</u><br>Wahlsheim/Saar   | ·····          | Alsfeld/Hessen   |
|               | •  |                |  |
| 46.           | MANTEUFFEL, Dr Ing - US  | 46a.           | SCEWARZ, Emil, Ing                                       |
|               | Balkhausen bei Jugenheim/Bergstr   |                | Schwaebisch-Gmuend                                       |
|               |  |                | Ackerstr 1   |
| 47.           | MOTHS, Hermann, Ing  | 478.           | MARERHORFER, Alois, Ing                                  |
|               | Daisburg-Wenneraut   |                | Mannheim   |
|               | Posegeretr 24  |                | Baeckerei  |
| 48.           | RETZLAFF. Hans. F M  | 48a.           | BERGEMANN, Pritz, P M                                    |
| •             | C/O Tuebbecke  | • • • • • •    | Tandshut   |
|               | Vitzenhausen   |                |  |
|               | An Grabenbach 2  |                |  |
| 49.           | VUIZ, Alois, Ing   | 49a.           | SCHNEIDER, Hans-Georg, Ing                               |
| •             | c/o Dr Hans Arnold   |                | Selb/Bayerp  |
|               |  |                |  |
|               | Ostendstr 6  |                |  |
| <b>5</b> 0.   | SAILWEY, Eans, Dipl Ing<br>Langen bei Frankfurt/Main<br>Bahnstrasse 96   | 50a.           | DIPPART, Ernst, Ing                                      |
|               | Langen bei Frankfurt/Main  | · ··· · ··· ·  | Wallensee bei Hameln/Westf                               |
|               | Bahnstrasse 96   |                | Angerstr bei Knoll                                       |
| 51.           | GOLDANGER, Ing   | 51a .          | PICK, Brast, Ing   |
|               | c/o Meerrettich  |                | Rutingen bei Pforzheim                                   |
|               | Landshut Approved for Release: 2022/   | 06/22 C        | 200010786nburgstr 43 oder                                |

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|---|--------------|---|--|
|   | 41.          | KNOTHE, Herbert, Dipl Ing                 | 41a. BICHLER, Martin, Dr Phil  |
|   |              | c/o Prof Walther                          | Hanmenstedt bei Nordheim   |
|   |              | Darmstadt, Techn Hochschule               | c/o Pastor Pirrvitz<br>Fichteveg 28  |
|   | 42.          | KAYSER, Alois, F M                        | 42a. ALTNAYER, Wilhelm, F M  |
|   |              | Werl/Westf                                | c/o Frl Lehnig   |
|   |              | Biegerstr 4                               | Waiblingen/Wttbg<br>Neue Bahnhofstr 44                                       |
|   | 42           | NIRN, Max, Ing                            | 43s. ZETTL, Josef, Dipl Ing  |
|   | •            | Hanau/Main                                | Muenchen 12  |
|   |              | Bernhardstr 8                             | Bandtnerstr 5  |
|   | 44.          | MKERFFNICH, Kurt, Ing - H<br>Landshut     | 44a. KRAFFT, Friedrich, Ing<br>Mainz oder                                    |
|   |              | · •                                       | Frankfurt/Main oder  |
|   |              |   | Landshut, Dr Bussmann/Daniel   |
|   | 45.          | KLADOCS, Ferdinand, F M                   | 45a. SPAHN, Robert, F M  |
|   |              | Scehnstetten/Wttbg_oder<br>Wahlsheim/Saar | Alsfeld/Hessen   |
|   | 16.          | WANTENPERT. Dr. Ing a 119                 | 46a. SCHWARZ, Emil, Ing  |
|   | т <b>у</b> . | Balkhausen bei Jugenheim/Bergstr          | Schwaebisch-Gnuend   |
|   |              | Parallel Construction ( Dor Park          | Ackerstr 1   |
|   | 47.          | MOTHS, Hermann, Ing-                      | 47a. MARERHOEFER, Alois, Ing   |
|   | •            | Duisburg-Venneraut                        | Mannhaim   |
|   |              | Posenerstr 24                             | Baeckerei  |
|   | 18           |   |  |
| ÷ | 40.          | c/o Tuebbacke<br>Witzenhausen             | 48a. BERGEMANN, Fritz, F M<br>Landshut                                       |
|   |              | An Grabenbach 2                           |  |
|   | 49.          | WUTZ, Alois, Ing                          | 49a. SCHNKIDER, Hans-Georg, Ing  |
|   |              | c/o Dr Hans Arnold                        | Selb/Bayern  |
|   |              | Landshut -                                | Fa Rosenthal-Isolatoren  |
|   |              | Ostendstr 6                               |  |
|   | 50.          | SALLWEY, Hans, Dipl Ing                   | 50a. DIPPART, Ernst, Ing   |
|   |              | Langen bei Frankfurt/Main                 | Wallensee bei Hameln/Westf   |
|   |              | Bahnstrasse 96                            | 50a. DIPPART, Ernst, Ing<br>Wallensee bei Hameln/Westf<br>Angerstr bei Knoll |
|   | 51           | GOLDAMMER, Ing                            | Elamont Banak Tax  |
|   | J <b>L</b> . | c/o Meerrettich                           | 51a. PICK, Brnst, Ing<br>Butingen bei Pforzheim                              |
| - |              | Landshut                                  | Hindenburgstr 43 oder  |
|   |              |   | Landshut, Buero Dr Bussmann/Daniel   |
|   | 52.          | MADKE, Walter, Dipl Ing<br>Witzenhausen   | 52a. LIEB, Edgar, P.N  |
|   |              |   |  |
|   |              | Brueckenstr gegenueber                    |  |
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| • • • • • •           |  | - 5 -  |
|                       | KUKHNE, Walter, Dipl Ing<br>Landebut   | 53a. LAYES, Walter, Ing<br>Ducaseldorf-Eller<br>Zeppelinstr 44   |
|                       | Germersbeimerveg 61  | 54a. HORNUNG, Walter, Dr Ing<br>Waldbrunn 35 ueber Wuerzburg   |
| 55.                   | SCHULZE, Heinrich, Ing<br>Hannover-Herrenhausen<br>Marmarhaeuserstr 20 oder 50   | 55a. BARTELS, Waldemar, Ing<br>Hannover-Linden<br>Koethner Holzweg   |
| <b>56</b> .           | NART Verner Ing  | 56a. FUHR, Wolfgang, Dipl Ing<br>c/o Storch<br>Landshut  |
| 57-                   | MONER, Wilhelm, Ing<br>Witzenhausen<br>Kniegasse 26 oder                         | 57a. TISCHER, Ing<br>Berlin-Lichterfelde   |
|                       | c/o Tuebbecke, Witzenhausen  | ······································   |
| <b>58.</b><br>113 - 1 | PARTENFELDER, Hans, Ing<br>Berlin-Siemensstadt<br>Rohrdaur 51                    | 58a. ROTE, Helmut, P M<br>c/o Kuns<br>Darmstadt, Am Tiefen See 16<br>oder Landsbut                             |
| <b>5</b> 9.           | WAGNER, Hermann, Ing<br>Buderstadt<br>Steintorstr 15                             | 59a. HUFEN, Hermann, Ing<br>Duisburg-Hamborn<br>Mecklenburgerstr 18  |
| 60.                   | SCHMIDI, Wilhelm, Ing<br>Eannover  |  |
| 61.                   | ROESSLER, Hans, F.M  | 61a. SILBEREIS, F M<br>Frankfurt/Main-Hoechat<br>Zeutralversuchersum der I G Farbe<br>Frankfurt/Main - Hoechat |
| 62.                   | MERKELBACH, Ing<br>Siemens-Halskem<br>Koelp/Rhein                                | 62a. BANGERTER, Dipl Ing<br>Stuttgart oder Landshut  |
|                       |  | 63a. SCHIFFMANN, Brich, Ing<br>Landshut  |
|                       | SEILER Ernst Tog   |  |
| 65                    | TIETZE, Otto<br>Witzenhausen<br>Kniegasse 26 oder<br>c/o Tuebbecke, Witzenhausen | 65a. FIRNROHR, Ing<br>Landshut, Buero Dr Bussmanu/Ds.  |
| 66.<br>•              | BILLIG, Kurt, F M  |  |

|  | <b>5</b> 5. | SCHULZE, Heinrich, Ing   | 55a.                                   | BARTKIS, Waldemar, ing   |
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| 2<br>2<br>-  |             | Hannover -HerrenhauApproved for Releas<br>Herrenhauserstr 39 over 99 | se: 2022/06/2                          | 2 C00010786 Holzweg  |
| -<br>4<br>-  | 56.         | DAHI, Werner, Ing  | 568.                                   | FUHR, Wolfgang, Dipl Ing                                       |
|  |             | Bonn/Rhein<br>Simrockstr 12  |  | c/o Storch<br>Lendshut   |
| :<br>:<br>:× :   | 57.         | THONER, Wilhelm, Ing<br>Witzenhausen                                 | 57a.                                   | TISCHER, Ing<br>Berlin-Lichterfelde                            |
| 2 .<br>2   |             | Kniegasse 26 oder<br>c/o Tuebbecke, Witzenhausen                     |  |  |
|  |             |  | - •                                    |  |
|  | -58.        | PARTENFELDER, Hans, Ing<br>Berlin-Siemensstadt                       | 58a                                    | -ROTH, Helmut, F M   |
|  |             | Rohrdamr 51  | <u> </u>                               | Darnstadt, Am Tiefen See 16<br>oder Landshut                   |
|  | 59.         | WAGNER, Hermann, Ing   | 598.                                   | HUPEN, Hermann, Ing  |
|  |             | Buderstadt<br>Steintorstr 15   |  | Duisburg-Hamborn<br>Necklenburgerstr_18                        |
|  |             |  |  |  |
|  | 60.         | SCHMTDI, Wilhelm, Ing  | Eoa.                                   | SCHLICHTER, August, F M  |
|  |             | Fannover   |  | Ensdorf/Saar oder<br>Griesborn/Saar                            |
|  | 61.         | ROESSLER, Hens, F M  | 614.                                   | SILBEREIS, F M   |
| an a   |             | Waiblingen   |  | Frankfurt/Main-Hoechst   |
|  |             | Fahnhofstr. 59   |  | Zeutralversuchersum_der_I_G_Farben<br>Frankfurt/Main - Hoechet |
|  | 62          | MERKELBACH, Ing  | - 62a -                                | BANGERTER Dipl Ing   |
|  | VC .        | Sienens-Halsken  | 0230                                   | Stuttgart oder Landsbut  |
| 2<br>8<br>1  |             | Koeln/Rhein  |  | ······································                         |
|  | 63.         | BRASELMANN, Ferdinand, Ing   | 63a.                                   | SCHIFFMANN, Brich, Ing   |
|  | رن.         | Oberbauer ueber Milspe/Westf   |  | Landshut   |
|  | 64.         |  | 64a.                                   | HAEFMER, Hans, Ing   |
| - Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea<br>Andrea |             | Murnau/Oberbayern<br>Kohlgruberstr_72 <sup>1</sup><br>bei Matheus    | · · · · · · · · · · · · · · · · · · ·  | Landshut   |
| a carponette   | 65          | MTTY/778 ALLA  | 65-                                    | FIRNROHR, Ing  |
|  | 02          | TIFIZE, Otto<br>Witzenhausen   |  | Landsbut, Buero Dr Bussmann/Ds.                                |
|  |             | Kniegesse 26 oder  | ······································ |  |
| tan<br>tan<br>tan<br>tan   |             | c/o Tuebbecke, Witzenhausen  |  |  |
| € v Kr fr  | 66.         | BTILIG, Kurt, PM<br>Landshut   | 66a.                                   | PFLANZE, Willi, F M<br>Landshut                                |
| с.<br>В. К   | 67.         | SCHWEIRES, Brnst, Dipl_Ing   | 678.                                   | ZILKA, Otto, Dipl Ing  |
|  | <b>~</b> 1  | c/o Leitzwerke   |  | c/o Biehl  |
| 1.<br>   |             | Wetzler/Lahn   |  | Witzenhausen   |
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| Ly the year of the sec   |             |  |  | 834021-/582  |
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| · · ·  | <b>5</b>    |   | Enclosure   |
| 1  |             | - 6   | •   |
| 6  | 8           | THAMM, Guenther, Ing<br>Woltorf bei Peine<br>Braunschweig<br>Volkaschule            | 68a. SCHERIE, Hane, Dr Ing<br>Stutigart-Cannstatt<br>Taubenheimstr 84                               |
|  |             | MUENZ, Willi, Ing<br>Laufach-Bahnhof<br>bei Aschaffenburg/Main                      | 69a LANG, Pritz, Ing<br>Landsbut  |
| 7  | ·0.         | LINKORR, Richard, F M<br>Stuttgart-Cannotatt<br>Wildungerstr 3?                     | 703. GARDIAN, George, F M<br>Landebut   |
| , <b>7</b>   | 71.         | BLANKENBERG, Kurt, F.M.<br>Gosttingen<br>Reinholdstr 12                             | 71s. KUNZE, Gottfried, 7 M<br>Landsbut  |
| 7  | <b>7</b> 2. | HENNECKE, Alois, Ing<br>Landshut  | 72a. LOB, Ing<br>Landshut, Buero Dr Bussmann/Daniel   |
| 1  | 73.         | ANDERS, Kurt, Ing<br>Waiblingen bei Stuttgart<br>Neue Bahnofstr 53<br>bei Hahn      | 73a. ANSCHUETZ, Herrmann, Dipl Ing<br>Muenchen 25<br>Valleystr 53a                                  |
|  | 74,         | BRONMER, Wilhelm, F M<br>Darmstadt<br>Technische Hochschule<br>Institut Prof Huster | Landshut oder<br>c/o Frl Marianne Gelbrich  |
|  | 75.         | HAUKOHL, Joschim, Ing<br>Landshut   | 75a. UTPATEL, Georg, Ing<br>Bechwege<br>Ottostr 8 c/o Krause  |
|  | 76.         | HEISCRKAMP, Erich, F.M.<br>Landsbu:   | 76a. LORHNDERS, Bans, F M<br>Klebe/Rheinland<br>Emmerichetr oder<br>c/o Krause, Eschwege, Ottostr 8 |
|  | <u>77</u> . | KURERG, Willi, Ing<br>Gelsenkirchen/Westf<br>Otto Schlemmstr 58                     | 77a. NBIL, Walter, Ing<br>Eschwege<br>Bernhardstr 19  |
| n na   | <b>78</b> . | TUEBBECKE, Julius, Ing<br>Witzenhausen<br>Am Grabenbach 2                           | 78a. PRBY, Herbert, Ing<br>c/o Tuebbecke<br>Witzenhausen<br>Am Grabenbach 2                         |
| <ul> <li>methods</li> <li>methods</li></ul> | 79.         | NEITHORPER, Gerhard, F M<br>Rheinhausen/Niederrhein<br>Schwarzenterg, Martinstr 7   | 79a. SCHUEMMER, Martin, F M<br>Weinheim/Bergstrasse   |
|  | 80.         | SCHMITT, Walter, Ing<br>c/o Piecher<br>Witzenhausen<br>Hoetel Goldener Loeve        | 80s. HEESE, Heinz, Ing<br>Landshut, öder<br>c/o Frl Lehnig, Waiblinger/Witbg<br>Neus Babnhofstr 44  |
|  | 81.         |   | 22/06/22 C00010786, p. h. Traves  |

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|                       |              | Approved for F                                | Release: 2022/06/2                     | 22 C00010786<br>GAELIAN, GEORGE, F M  |
|                       | 7¢.          |   | (V3.                                   |   |
|                       |              | Stuttgert-Cannetatt                           |  | Landebut  |
|                       |              | Wildungerstr 3?                               |  |   |
|                       | -            |   | 71.                                    | KUNZE, Gottfried, F M   |
|                       | 71.          | BLANKENBERG, Kurt, P M                        | (13.                                   | Landshut  |
|                       |              | Gosttingen                                    |  | Tendonas  |
|                       | - : : :      | Reinholdstr 12                                |  |   |
| ,                     | -            | The Test                                      | 724                                    | LOH, Ing  |
|                       | (≤-          | HENNECKE, Alois, Ing<br>Landshut              | 15.4.1                                 | Landshut, Buero Dr Bussmann/Daniel  |
|                       |              | <b>Lan</b> ashut                              |  |   |
| · · ·                 | 72           | ANDERS, Kurt, Ing                             | 738.                                   | ANSCHUETZ, Herrmann, Dipl Ing   |
|                       | ۰ <b>ب</b> ا | Waiblingen bei Stuttgart                      |  | Muenchen 25   |
|                       |              | Waiblingen bei Stuttgart<br>Neue Bahnofstr 53 |  | Valleystr 53a   |
|                       |              | bei Hahn                                      |  |   |
|                       |              |   |  | ·   |
|                       | 74.          | BRONMER. Wilhelm. F M                         |  | BARTHEL, Hans, F M  |
|                       | • • •        | Dermstädt                                     |  | Landshut oder   |
|                       |              | Technische Hochschule                         |  | c/o Frl Marianne Gelbrich   |
|                       |              | Institut Prof Huster                          |  | Dracian X 6   |
|                       |              |   |  | Boehnischestr 25  |
|                       |              |   |  |   |
|                       | 75.          | HAUKOHL, Joschim, Ing                         | 758.                                   | UTPATEL, Georg, Ing   |
|                       |              | Landshut                                      |  |   |
|                       |              | •   |  | Ottostr 8 c/o Krause  |
|                       |              |   |  | -   |
|                       | 76.          | HEISCHKAMP, Erich, F.M.                       | 768.                                   | LORHNDERS Hans F M  |
|                       | •            | Landsbur                                      |  | Klete/Rheinland<br>Emmerichttr oder   |
|                       |              |   |  | Emmerichetr oder  |
|                       |              |   |  | c/o Krause, Bechwege, Ottostr 8   |
|                       |              |   |  | -   |
|                       | 77.          | KURERG, Willi, Ing                            | 778.                                   | BBIL, Walter, Ing   |
|                       |              | Gelsenkirchen/Westf                           |  | Eschwege termine where a line is a line of the second second second second second second second second second s   |
|                       |              | Otto Schlemmstr 58                            | <u></u>                                | NEIL, Walter, Ing<br>Eschwege<br>Bernbardetr 19   |
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| 2                     | <u>7</u> 8.  | TUEBBECKE, Julius, Ing                        | 788.                                   | FREY, Herbert, Ing  |
| 5                     |              | Vîtzenhausen                                  | · · · · · · · · · · · · · · · · · · ·  | c/o Tueblecke   |
|                       |              | Am Grabenbach 2                               |  | Witzennausen  |
| ) -                   |              |   |  | An Grabenbach 2   |
|                       |              |   | 80.                                    |   |
| 1.<br>1.              | <i>7</i> 9.  | NEITHORFER, Gerhard, F_M                      | (78.                                   | SCHUEMMER, Martin, F M<br>Weinheim/Bergstrasse  |
| 2<br>X.               |              | Bheinhausen/Niederrhein                       |  | Weinneim/Bergstrasse  |
| ada yang dari         |              | Schvarzenterg, Martinstr 7                    |  |   |
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| n and an and a second | 80.          | · · · · · · · · · · · · · · · · · · ·         | ° 800                                  | Lardshut, oder  |
| A DE ANTINA           |              | c/o Fischer                                   |  | c/o Frl Lehnig, Waiblingen/Wttbg  |
|                       |              | Witzenhausen                                  | ······································ | C/O FII Lennik, Waldingen/woode   |
| çı. uştiki            |              | Hoetel Goldeper Loeve                         |  | Neue Babnhofstr 44  |
| E Star                | ٥.           | 100 AT THE                                    | Q1_                                    | OCHS, Heinrich, F M   |
|                       | Ø1.          | KROH, Hubert, Dipl Ing                        |  |   |
|                       |              | c/o Karl Brustzel                             |  | Linsingen bei Treysa  |
|                       |              | Misnchen-Graefelfing                          | · · · · · · · · · · · · · · · · · · ·  | BTZ KASSel  |
|                       |              | Aribostr 43                                   | •                                      |   |
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- 82 BOTHE, Kurt, Ing Landshut

- 83. HEAUSSLER, Pruis, F.M. Berlin-Neukoelln Welssett 9
- 84. Zenses, Wilnelm, F.M. Lusienscheid/Westf
- Rannover Nienburgerstr-1\_\_\_\_ Geodastisches Institut Ecke Schneiderberg
- 86. OTT, Albert, F M Wuermen bei Pforzheim oder c/o Krause, Eschwege Ottostr 8
- 87. JENEISSON, Dr. Ing US c/o Kraemer, Darmstadt, Gabelsbergerstr 21
- 88. NITZ, Paul, P\_M\_ Schwarsfeld Kreis Neuhaldensleben oder c/o Eschnel, Berlin-Spandau Germersheimerweg 61
- 89. LAFPE, Alfred, F M Landahu\*
- 90. GUENTHNER, Werner, Dipl Ing c/o Dr Arnold Landshut/Bayern Ostendstr 6
  - 91. RECEMANN, Heinrich, F M Lintz/Rhein-

92. SELFFERT, Erich, Ing

93. POCK, Manfred, Dipl Ing

Stutteart-0

Beubergstr 50

Am Nahringsberg 8 bei Fritsch

oder c/o Tuebbecke, Witzenhausen

Glessen

- 828. MOKHRING, Hans, Ing c/o Pran Anni Kroll Bielefeld-Bethel Saronweg 30
- 83s. HINKE, Eduard, F M Redel Zipf Kreis Voecklabruck Oggterreich
- 84a. BRACKMANN, Fritz, F M c/o Frl Lehnig Waiblingen/Wttbg Neus Bahnhofstr 44

Inclosure

- 85. LICHTE, Heinrich, Dr. Ing. 858. LUDWIG I, Guenther, Dr. Phil Gosttingen Mathematisches Institut
  - 86a. GLANDY, Erich, F M **Bschwege** Ludvigstr 32 oder c/o Krause, Eschwege, Ottostr 8
  - 87a. GOERNER, Erich, Dipl Ing Augsburg Messerschmidt A G
  - 88a. WERNER, Rolf, Ing c/o Hachnel Berlin-Spandau Germersheimerweg 61
    - 89a. BESTER, Hans, F M c/o Prl Lehnig Waiblingen/Wttbg Neue Bahnhofstr 44
    - 90a. KHDRESS, Siegfried, Dipl Ing St Ludwig bei Wittfeld/Main Pranken ....
      - 91a. KRTE, F M c/o Linkohr Stuttgart-Canastatt Wildungerstr 37
      - 92a. HEINIGK, Leo, T M Rheinhausen/Niederrhein Major Steinbachstr 9 oder c/o Neithoefer, Rheinhauses
      - -938. LORBBERG, Karl, Dr Ing Prankfurt/Main Metallgesellschaft Bockenheimer Anlage 45

| Weisestr 9                            | <b>OCCULTION</b>   |
|---------------------------------------|--|
| Approved for                          | r Release: 2022/06/22 C00010786ritz, F M                           |
| 84. Zenttt, Vilnelm, F M              | c/o Frl Lehnig   |
| Lucienscheid/Westi                    | Waiblingen/Wttbg   |
|                                       | Neue Bahnhofstr 44   |
|                                       |  |
| 85. LICHTE, Heinrich, Dr Ing          | 85a. LUDWIG I, Guenther, Dr Phil                                   |
| Randover                              | Gosttingen   |
| Bienburgerstr 1                       | Mathematisches Institut  |
| Geodastisches Institut                |  |
| Ecke Schneiderberg                    |  |
|                                       | 86s. GLANDT, Brich, F M  |
| 86. OTT, Albert, F M                  | OOS. ULADI ALLEY FR  |
| Wuermen bei Pforzheim                 | Eschwege<br>Ludwigstr 32 oder                                      |
| OUEL C/O ALLANCY MOULTO               | c/o Krause, Eschwege, Ottostr 8                                    |
| Ottostr 8                             | C/O MERISE, Bechrege, Outper o                                     |
|                                       | 87a. GOERNER, Brich, Dipl Ing                                      |
| 87. JENVISSON, Dr Ing - US            | Augeburg   |
| c/o Kraemer, Darmataat,               | Augsburg<br>Messerschmidt A G                                      |
| Gabelsbergerstr 21                    |  |
|                                       | 88a. WERNER. Rolf. Ing   |
| 88. NITZ, Paul, F M                   | 88a. WERNER, Rolf, Ing<br>leben oder c/o Haehnel<br>Berlin-Spandau |
| Behvarefeld Kreis Beunaldensi         |  |
| c/o Hachnel, Berlin Spandau           | Germersheinerveg 61  |
| Germersheimerweg 61                   |  |
|                                       | 898. BESTER, Bans, F N   |
| 89. LAFFE, Alfred, F M                | c/o Frl Lebois   |
| Landabut                              | c/o Frl Lebaig<br>Waiblingen/Wttbg                                 |
|                                       | Neue Bahnhofstr 44   |
|                                       |  |
|                                       | 90a. KNDRESS, Siegfried, Dipl Ing                                  |
| 90. GUENTHNER, Werner, Dipl Ing       | St induio bei Wittfeld/Main  |
| c/o Dr Arnold                         | St Ludwig bei Wittfeld/Main<br>Pranken                             |
| Landshut/Bayern                       | <u> </u>   |
| Ostendstr 6                           |  |
|                                       |  |
| 91. RECHMANN, Heinrich, F M           | 91a. ERTH, PM<br>c/o Linkohr                                       |
| Lintz/Rhein                           | Stuttgart-Canastatt  |
|                                       | Wildungerstr 37  |
| :                                     | Mitamilieraer 51   |
| ·                                     | 92a. HRINIGK, Leo, F M   |
| 92. SELFFERT, Erich, Ing              | Rheinhausen/Niederrhein  |
| Glessen                               |  |
| Am Nabringsberg 8 bei Fritsc          |  |
| oder c/o Tuebbecke, Witzenha          | usen c/o keithoeler, kheinhiswest                                  |
|                                       |  |
| 93. POCK, Manfred, Dipl Ing           | 93a. LORHEERG, Karl, Dr Ing  |
| Stuttgart=D                           | Prankfurt/Main   |
| Beubergstr 50                         | Wetallgesellschäft   |
|                                       | Bockenheimer Anlage 45   |
| · · · · · · · · · · · · · · · · · · · |  |
| 94. SCHMIDI, Friedrich Wilhelm, Di    | r Ing 94a. ZUNBUSCH, Dr Ing<br>Muenchen 42 (Laim)                  |
| Erlangen/Thuer                        | Diesterveg 4   |
| Goethestr 20 bei Sollmann             | Diesteiner 4   |
|                                       | 95s. FLECK, Ernst, Dipl Ing  |
| C. EDLER, Brust, Ing                  | c/o Fri Lehnig   |
| c/o von Liebhaber                     | Waiblingen/Witbg   |
| Karsel-Wilhelmshoehe                  | New Bahnbofstr 44  |
| Subbargatr 12                         |  |
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96. TUTZ, Bans, Ing Volteburg/Stelermark Grazer Vorstadt 1 oder Graz, Muchlriegel 3

- 97. RACHLITZ, Paul, F M-Waiblingen/Wttbg Schorpderferstr 11 bei Behner
- 98. KOBERL, Willi, Ing Ladenburg bei Mannheim
- 99. GEILING, Leonhard, Dr Ing Freilsesing/Obberbayera Siedlung Bruch
- 10C. GUENISCHEL, Beinz, Ing Jeps a d Saale Katharipenstr 23
- 101. BRINKMEIFR, Gerhard, Ing Muenchen-8\_

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- 102. DOLLHOFF, Wilhelm, Dipl Ing Stuttgert-Cannstatt Theodor Veilstr 68
- 103. GEREARDS, Walter, Ing c/o Seiffert\_\_\_\_\_ Giessen Am Nahringsberg 8 bei Fritsch oder Landsbut
- 10h. SCHUSTER, Hans, Ing Bechwege Beethovenstr 24
- 105. SCHENDEL, Arthur, Dipl Ing Landshut
- 106. HARZBECHER, Cerhard, Ing Eschvege Bernhardstr 22 bei Glamroth
- 107. GENSSLE, Otto, Ing Reutlingen
- 108. POETZSCHKE, Heinz, Dipl Ing c/o Frl Charlotte Steyer Landshut Niedermayrstr 29

- 96a. RUOFF, Josef jr, F M Landsbut Buero Dr Bussmann/Daniel
- 97a. FRISCH, Albert, F M Kuebelberg/Bheinpfals
- 98a. SANDVOSS, Willi, ING Landshut
- 992. REHRENS, Guenther, Ing --- Plensburg Nerongs Allee 42 bei Bdjahn
- 100a. KOENIG, Kurt, Ing Landshut
- 101a. WEGER, Fritz, Ing Linz bei Kehl/Rhein Birkkarstitze 16, III oder Dr Arnold, Landshut bei Holz Ostendstr 6
  - 102a. LUDEWIG, Hermann, Ing Trebbin bei Berlin
  - 103a. HENKEL, Johann, F M Unterrieden/Witzenhausen bei Siebert
  - 104a. PERLICK, Rudolf, Ing c/o Frl Lehnig Waiblingen/Wttbg
    - Neus Bahnhofstr 44
  - 105a. PUKLRER, Karl, P N Steg bei Bacharach/Rhein
  - 106a. BUERGER, Albert, Ing Oborn bei Pulsnitz Bezirkestr 1970
  - 107a. INHOF, Theophil, F M Kalcerelautern Co Eineldeant
  - 108a. RRDERUEGGER, Walter, Dipl Ing Eilsbauses Kreis Herford/Westf
- 109a. POHAJAC, Hans, F M 109. GRABER, Franz, F M Innsbruck/Oesterreich Steinach am Prenner Approved for Release: 2022/06/22 C00010786henstr 8

|  | KORIEL, Willi, IngApproved for Release:<br>Ladenburg bei Mannheim | LADOBHUC  |
|--|---|---|
| 99.  | GEILING, Leonhard, Dr Ing<br>Freilassing/Obberbayern              | 99a. REHFENS, Guenther, Ing<br>Flensburg                                    |
| · · · · · ·  | Siedlung Bruch  | Nerongs Allee 42 bei Bdjahn   |
| 100.   | GUENTSCHEL, Beinz, Ing<br>Jens a d Saale                          | 100a. KOENIG, Kurt, Ing<br>Landshut   |
|  | Katharinsostr 23  |   |
| 101.   | BRINKMEIER, Gerhard, Ing<br>Muenchen 8                            | lola. WEGKR, Fritz, Ing<br>Linz bei Kehl/Rhein                              |
| national de la comunicada de la comunicada<br>En este comunicada de la co | Birkkarstitze 16, III<br>bei Holz                                 | oder Dr Arnold, Landsbut<br>Ostendstr 6                                     |
| 102.   | DOLLHOFF, Wilhelm, Dipl Ing<br>Stuttgart-Cannstatt                | 102a. LUIEWIG, Hermann, Ing<br>Trebbin bei Berlin                           |
| · · · · · · · · · · · · · · · · · · ·  | Theodor Yeilstr 68  |   |
| 103.   | GERBARDS, Walter, Ing<br>c/o Seiffert                             | 103a. HENKEL, Johann, F M<br>Unterrieden/Witzenhausen                       |
|  | Giessen<br>Am Nahringsberg-8 bei Pritsch<br>oder Landsbut         | bei Siebert   |
| 10 <sup>h</sup> .  | SCHUSTER, Hads, Ing<br>Eschwege                                   | c/o Fri Lennig  |
|  | Beetbovenetr-24   | Waitlingen/Witbg<br>Neus Bahnhofstr 44                                      |
| 105.   | SCHENDEL, Artbur, Dipl Ing<br>Landsbut                            | 105a. FUELRER, Karl, F M<br>Steg bei Bacharach/Rhein                        |
| 106.   | HARZBECHER, Gerhard, Ing<br>Eschwege                              | 106a. BUERGER, Albert, Ing<br>Ohorn bei Pulenitz                            |
|  | Bernbardstr 22<br>bei Glamroth                                    | Bezirkestr 1970   |
| 107.   | GENSSLE, Otto, Ing<br>Reutlingen                                  | 107a. INHOF, Theophil, F M<br>Kalcerslautern                                |
|  |   | CAN BE THE STATE  |
| 108.   | POETZSCHKE, Heinz, Dipl Ing<br>c/o Frl Charlotte Steyer           | 108a. ERDBRUEGGER, Walter, Dipl Ing<br>Eilsbauses Kreis Herford/West?       |
|  | Landshut<br>Niedermayrstr 29                                      | I   |
| 109.   | GRABER, Franz F N<br>Steinach an Brenner                          | 109a. POHAJAC, Hans, F M<br>Innebruck/Oesterreich                           |
|  | Steinach am Brenner<br>Oesterrèich                                | Boebenstr O   |
| 110  | Bielefeld   | 110a. WAHREN, Fritz, Dipl Ing<br>Reinheim/Odenvald<br>Kirchstr 24 bei Kobus |
|  | Ravenburgerstr 117  | AIFCIBLT 24 DEL RUDUS   |

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| 111. | STORK, Georg, F M                          | 111a.                                 | ADERHOLT, Kurt, F.M.                    |
|------|--|---------------------------------------|---|
|      | Arheiligen bei-Darmstadt                   |                                       | Pinneberg/Holstein                      |
|      |  |                                       | Friedensstr 48                          |
|      | ······································     | 110-                                  | TOWER CASESANT P M                      |
| 112. | KHAUER, Otto, Ing                          | 1128.                                 | IRMER, Gerhard, 7 X<br>- Solingen-Ohlis |
|      | Landurg-Larburg                            |                                       | Mankhauserstr 38 bei Fuhlendorf         |
|      | Brehmstr 6                                 |                                       | Bankhauserstr 30 ber Funtendorr         |
| 112  | KT (1970)197 Kawl - Drof Ing               |                                       | SIELAFF, Brast, Dipl Ing                |
| 112. | KLOKPPKL, Karl, Prof Dr<br>Darmstadt       |                                       | Augeburg                                |
|      | Technische Hochschule                      |                                       | Messerschmidt A G                       |
|      | Tecmitacue accusenato                      | •                                     | ••••••                                  |
| 114. | MRAZZCK, Anton, F N                        | 1148.                                 | TREIB, Franz, F. M                      |
|      | Landshut                                   |                                       | Schaffhausen/Saar                       |
|      |  |                                       | Ehemalige Goebbelsstr 11                |
|      |  |                                       | oder_c/o Erause, Eschwege               |
|      |  |                                       | Ottostr 8                               |
|      |  |                                       | THE WORT FILLS DIV                      |
| 115. | BENZ, Franz, F_M<br>Offenburg/Obberhein    | 1178.                                 | BRANDEL, Kurt, P.M.                     |
|      | Offenburg/Obbernein                        |                                       | Essen/Ruhr<br>Biepenstr 5 bei Pollert   |
|      | Elektrizitaetsverke                        |                                       | Diebeus (L.) per Lorrer (               |
| 116  | KEERINGER, Robert, F.M.                    |                                       | SIMA, Alfred, Ing                       |
| 1100 | Freilassing/Obbayern                       | Eaver                                 | Kalsdorf bei Graz Hr 169, bei Berg      |
|      | Weibhauser Siedlung 6                      |                                       | Steiermak/Oesterreich Teld              |
|      | Heroman her here -                         | <u> </u>                              |   |
| 117. | BARBERLE, Wilhelm Ing                      | 1174.                                 | BOSTICHER, Friedrich, Ing               |
| **10 | Heidenheim/Brenz                           |                                       | Gross-Wudicke bei Rathenow              |
|      | Pa Voith:                                  |                                       |   |
|      | \$ ** 1 V = C **                           |                                       |   |
| 118. | HESSERT, Buil, Ing                         | <u>118a.</u>                          | KOHOOTEK, Heinz, Ing                    |
|      | Achern/Baden-oder                          | · · · · · · · · · · · · · · · · · · · | c/o Frl Lehnig                          |
|      | Schluchtern bei Heilbroan                  |                                       | Waiblingen/Wttbg                        |
|      |  |                                       | Nane Bahnhofstr 44                      |
|      |  |                                       |   |
| 119. | AUP'N KAMPE, Joachim, Dr Ing               | 1194.                                 | HOKHNDORF, Fritz, Dr Phil               |
|      | Ainring bei Bad Reichenhall                |                                       | Bad Reichenhall/Bayern                  |
|      |  |                                       |   |
| 120. | MURHLER, Egon, Dr Ing                      | 1208.                                 | SCHLOLAUT, Herbert, Ing                 |
|      | Braunschweig                               | ·····                                 | c/o Frl Lehnig                          |
|      | Siegfriedstr 56, I                         | · · · · · · · · · · · · · · · · · · · | Waiblingen/Wttbg                        |
|      | ·  |                                       |   |
| 121. | SPKER, Rugen, Dr Phil<br>Rentschelwerke    | 1214.                                 | LEOTHE, Herbert, Dipi Ing               |
|      | Nentschelwerke                             | · · · · · · · · · · · · · · · · · · · |   |
|      | Kassel                                     |                                       | Fichtestr-32                            |
|      | •  |                                       |   |
| 122. | BACHER, Konrad, Dr. Ing<br>Bacharach/Rhein | 1224.                                 | BLUR, RODERL, DIDI INK                  |
|      |  |                                       | Tourtegart-Degeloch                     |
|      | Steeg 35                                   |                                       | Loevinstr - Rosshauveg bei Saile        |
| -    | ERREST, Rudi, Dipl Ing                     | 189-                                  | PTENER Berbert. P. M                    |
| 152. | BARNOT, RUGI, DIDI INK,                    |                                       | Nigehhangen hai Vitsenhausen            |
|      | c/o Madee                                  |                                       | Bischisusen ver arvennausen             |
|      | Witzenhausen                               |                                       | oder Hentschelverke, Kassel             |
|      | Witzenbausen<br>bei Fa Luedecke & Storm    |                                       | Angt. Dentacharige Vebact               |
| 104  | POHAJAC, Hans, F M                         | 1940                                  | MAYER, Fritz, F.M.                      |
| 1541 | Innsbruck/Oesterreich                      | 4678.                                 | c/o Linkohr                             |
|      | Koehenstr 9                                |                                       | gente ward -Cannatatt                   |
|      | Boeneastr A                                |                                       | Wildungerstr 37                         |
|      |  |                                       | Attringerest 31                         |

|   | 1120 | KLORPPEL, Karl, Prof Approved for Rele<br>Dernstadt<br>Technische Hochschule | ease: 2022/06/22 | 2 C00010786<br>Messerschmidt A G   |
|---|------|--|------------------|--|
|   | 114. | NEAZECK, Anton, 7 M  | 114a.            | Schallnausen/Saar  |
|   |      |  |                  | Ehemalige Goebbelsstr 11<br>oder c/o Krause, Eschvege<br>Ottostr 8               |
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|   | 115. | EKNZ, Franz, F M<br>Offenburg/Obberhein<br>Elektrizitaetswerke               | 1158.            | BRANDEL, Kurt, F M<br>Essen/Ruhr<br>Siegenstr 5 bei Pollert                      |
| i de la companya de l | 116. | EERRINGER, Robert, F M<br>Freilassing/Obbayern<br>Weibhauser Siedlung 6      | 116a.            | BIMA, Alfred, Ing<br>Kalsdorf bei Graz Mr 169, bei Barg<br>Steiermak/Oesterreich |
|   |      | en e                                     |                  |  |
|   | 117. | BAKUKRIE, Wilhelm-Ing<br>Heidenheim/Brenz<br>Fa Voith                        |                  | BORTTCHER, Friedrich, Ing<br>Gross-Wudicke bei Rathenow                          |
|   | 118. | HESSERT, Bail, Ing   | 118a.            | KOHOOTEK, Heinz, Ing   |
|   |      | Achern/Baden oder<br>Schluchtern bei Heilbronn                               |                  | c/o Fri Lehnig<br>Waiblingen/Witbg<br>Neue Babnhofstr 44                         |
|   |      | •  |                  |  |
|   | 119. | AUF'N KAMPE, Joschim, Dr Ing<br>Ainring bei Bad Reichenhall                  | 119a.            | ECENDORF, Fritz, Dr Phil<br>Bad Reichenhall/Bayern                               |
|   | 120. | MUERLNER, Egon, Dr Ing<br>Braunschveig<br>Siegfriedstr 56, I                 | 1 <u>2</u> 0a.   | SCHLOLAUT, Merbert, Ing<br>c/o Frl Lehnig  |
|   |      | Siegfriedstr 56, I   |                  | Waiblingen/Wttbg   |
|   | 121. | SPEER, Eugen, Dr Phil<br>Hentschelverke                                      |                  | <b>ENOTHE</b> , Herbert, Dipl Ing<br>Darmstadt<br>Fichtestr 32                   |
|   |      | Kassel   |                  | Tichtestr 32   |
|   | 122. | BACHER, Konrad, Dr Ing<br>Bacharach/Rhein                                    |                  | BLUN, Robert, Dipl Ing<br>Stuttgart-Degeloch                                     |
|   |      | Steeg 35   |                  | Loevinstr - Rosshauveg bei Saile   |
|   | 123. | EEREST, Rudi, Dipl Ing.<br>c/o Madee   | 1634.            | PIRDLER, Herbert, P M<br>Bischhausen bei Witzenhausen                            |
|   |      | Witzenhausen<br>bei Fa Lucdecke & Storm                                      |                  | Berggasse<br>oder Hentschelverke, Kassel   |
|   | 124. | POHAJAC, Hans, F M<br>Innsbruck/Oesterreich                                  | 1248.            | MAYER, Fritz, F M<br>c/o Linkohr   |
|   |      | Roehenstr 9  |                  | Stuttgart-Cannstatt<br>Wildungerstr 37   |
|   | 125. | ZELLER, Josef, P.M.<br>Grossauheim bei Hanau/Main                            | 1254.            | TASCHE, Kurt, Dipl Ing<br>Frankfurt/Main-Eschersheim                             |
|   |      |  |                  | Landgraf Wilhelmstr 15   |
|   | 126. | CABINEERG, Reinrich, Dipl Ing<br>Reelden/Niederrhein                         | 1264.            | Eschvege, Ludvigstr 4 oder   |
|   |      | Post Isselberg<br>Gut Duschhof   |                  | c/o Krause, Eschvege, Ottostr 8<br>oder Geisslautern/Baar                        |
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|                       | 127.           | TSCHERMACK, Rudolf, Ing<br>Landshut oder   | 1274.                                 | BAETZ, August, Ing<br>Machtlos Kreis Ziegenheim bei Kasse |
|-----------------------|----------------|--|---------------------------------------|---|
|                       |                | Oberstdaorf bei Fa Mauser  |                                       | ······  |
|                       | 128.           | BECKMANN, Dr Ing   | 1234.                                 | WUTTKE, Ing   |
| · · · · · · · · · · · | TEAS           | Muenchen, 19   |                                       | Flensburg/Schlesvig                                       |
|                       |                | Waisenhausstr 4  |                                       | Wester Allee 92   |
|                       |                |  | 1000                                  | HOLSKE, Richard, Ing                                      |
|                       | 129.           |  | Icya.                                 | Bas Sodan-Allendorf/Herra                                 |
|                       |                | Ermschwerd/Werrs No 57   | · · · · · · · · · · · · · · · · · · · | Das Soust-Allendoll/Bella                                 |
|                       |                | bei Sparbert   |                                       |   |
|                       | 130.           | EARMANS, Jan, Dr Ing<br>c/o Oakar Zosel  | 1308.                                 | KUTZSCHE, Werner, Dipl Ing                                |
|                       |                | c/o Oakar Zosel  |                                       | Landshut oder   |
|                       |                | Landsbut, Ostendstr 6  |                                       | Kreischs/Sachsen  |
|                       |                | oder Buero Landshut  |                                       | Kreischa/Sachsen<br>Romenstr 104 h                        |
|                       |                |  |                                       |   |
|                       | 131.           | ARNOLD, Wilhelm, F M   | 1314.                                 | BERRALD, Franz, F X                                       |
|                       |                | Wiesbadan-Biebrich   |                                       | Landshut  |
|                       |                | Friedrichstr 19  |                                       |   |
|                       |                | RUST, Karl, Ing<br>c/o Dr Kochler  |                                       |   |
|                       | 132.           | RUST, Karl, Ing  | 1324.                                 | FURSER, Willi, P M  |
|                       |                | c/o Dr Kochler   | ·<br>·                                | Bschwege  |
|                       |                | Gandersheim bei Kreiensen  |                                       | Bernhardstr 20 oder                                       |
|                       |                | Nevestr 11 oder  |                                       | c/o Krause, Eschwege, Ottostr B                           |
|                       |                | Landshut, Buero Dr Bussmann/Daniel   |                                       |   |
|                       | 133.           | KRAUSS, Gerbard, Ing   | 1334.                                 | HOPPHANN, Werner, Ing                                     |
|                       |                | KRAUSS, Gerbard, Ing<br>Hoepfingen Kreis Buchen/Odenwald<br>Finchenstr 2   |                                       | Valedorf/Taunus   |
|                       |                | Kirchenstr 2   |                                       |   |
|                       |                |  | 1                                     |   |
|                       | 134.           | BERNKE, Karl, T X  | 1344.                                 | GERILE, Josef, P N  |
|                       |                | c/o Frl Lehnig   |                                       | c/o Frl Lehnig  |
|                       |                | Vaiblingan/Wttbg   |                                       | Weiblingen/Witbg<br>Weue Bahnhofstr 44                    |
|                       |                | Neue Bahnhofstr 44   |                                       | AGRC BACINOISTE 44  |
|                       | 135.           | KRAFFT, Friedrich, ing<br>Mainz oder Frankfurt/Main<br>oder Landshut Dr Bussmann/Daniel  | 1358.                                 | HANKE, Hans, F M  |
|                       |                | Mainz oder Frankfurt/Main  |                                       | Berlin W 31   |
|                       |                | oder Landshut Dr Bussmann/Daniel   | ······                                | Eussitenstr 16  |
|                       |                | A MARY THEORY & A TAKE TO MA AND THE TAKE A A TAKE TO THE TAKE TO THE TAKE TAKE TAKE TAKE TAKE TAKE TAKE TAK |                                       |   |
|                       | 136.           | KOESTERS, Ludvig, Ing  | 1364.                                 | PPEPPER, Theophil, Ing                                    |
|                       | <b>-</b> · · · | Rerefold/Verra   |                                       | Meteingen Mitihg  |
|                       |                | August Gottliebstr_15  |                                       | Kurzestr 2  |
|                       | •              |  |                                       |   |
|                       | 137.           | FICK, Ernst, Ing   | 1378.                                 | KURZSCHENKEL, Hermann, F M                                |
|                       | 1              | Entingen bei Pforzheim   |                                       | Grossauheim/Main  |
|                       |                | lindenburgstr 43 oder  | · · · · · · · · · ·                   | oder Landshut Dr Bussmann/Daniel                          |
|                       |                | Lindenburgstr 43 oder<br>Landshut, Dr Bussmann/Daniel  |                                       |   |
|                       | 128            | SCEWARZ, Adolf, F N  | 1284                                  | LANPE, Alfred, F N  |
|                       | - v.           | Wien, 24   |                                       | Wolgast oder  |
|                       |                | Brunn an Gebirge   |                                       | Lindshut  |
|                       |                | Gattringerstr 34   |                                       |   |
|                       |                |  |                                       |   |
|                       | 139.           | CHAUSSY, Karl-Heinz  | 1398.                                 | SCHOLZ, F N   |
|                       |                | Karlsruhe  |                                       | Landshut/Bayern   |
|                       |                | Kallivodastr 1   |                                       | n<br>An an antar  |
|                       |                |  |                                       |   |
|                       | 140 .          |  | 140a                                  | KALUZZA, EVALO, F M                                       |
|                       |                | Weiden bei Ascher  |                                       | Tandahut  |

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|                                       | 129.        | FLANDORFER, Gerhard, Approved for Release:<br>Brmschwerd/Werra No 71<br>bei Sparbert                 | 2022/06/ | /22 C00010786<br>Allendorf/Werra  |
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|                                       | 130.        | HARMANS, Jan, Dr Ing<br>c/o Oakar Zosel<br>Landahut, Ostendstr 6<br>oder Buero Landshut              | 1308.    | KUTZSCHE, Werner, Dipl Ing<br>Landshut oder<br>Kreischs/Sachsen<br>Rosenstr 104 h                               |
| · · · · · · · · · · · · · · · · · · · | 131.        | ARWOLD, Wilhelm, F M<br>Wiesbaden-Biebrich<br>Friedrichstr 19  | 1318.    | EERWALD, Franz, F X<br>Landshut   |
|                                       | 132.        | RUST, Karl, Ing  | 1328.    | FUESER, Willi, F M  |
|                                       |             | c/o Dr Koehler<br>Gandersheim bei Kreiensen  |          | Bernhardstr 26 oder   |
| ·                                     |             | Newestr 11 oder<br>Landshut, Buero Dr Bussmann/Deniel  | ·<br>·   | c/o Krause, Eschwege, Ottostr 8   |
|                                       | 133.        | KRAUBS, Gerbard, Ing<br>Hoepfingen Kreis Buchen/Odenwald   | 1334.    | HOFFMANN, Werner, Ing<br>Walgdorf/Taunus  |
| <u></u>                               |             | Kirchenstr 2   |          | in an intervention of the second s |
|                                       | 134.        |  | 1344.    | GGELLE, Josef, F N  |
|                                       |             | c/o Frl Lehnig<br>Waiblingan/Witbg   |          | c/o Frl Lehnig<br>Waiblingen/Wttbg  |
|                                       |             | Yeue Bahnhofstr 44   |          | Neue Babnhofstr 44  |
|                                       | 105         | www.staurenter - Ward - Bird - Normal Paris - Contractor   | 1254     | TANYP : Tend P M  |
|                                       | 1320        | KRAFFT, Friedrich, Ing<br>Mainz oder Frankfurt/Main  | 1378.    | BANKE, Hans, F M<br>Berlin N 31   |
|                                       |             | oder Landshut Dr Bussmann/Daniel   |          | Hussitenstr 16  |
|                                       | 136.        | KOESTERS, Ludvig, Ing<br>Hersfeld/Werra  | -1364.   | PFEFFER, Theophil, Ing<br>Metzingen/Wttbg<br>Kurzestr 2   |
|                                       |             | August Gottliebstr 15  |          |   |
|                                       | <b>137.</b> | FICK, Ernst, Ing<br>Distingen bei Pforzheim<br>Hindenburgstr 43 oder<br>Landshut, Dr Bussmann/Daniel | -137a.   | KURZSCHENKEL, Hermann, F M<br>Grossauheim/Main<br>oder Landshut Dr Bussmann/Daniel                              |
|                                       | 138.        | SCEWARZ, Adolf, F-N  | 138a.    | LANPE; Alfred, F N  |
|                                       |             | Wien, 24   | -9       | Wolgast oder  |
|                                       |             | Brunn am Gebirge<br>Gattringerstr_34   |          | Imdshut   |
|                                       | 139.        | CHAUSSY, Karl-Heinz<br>Karlsruhe<br>Kallivodastr-1   | 1398.    | SCHOLZ, F M<br>Landshut/Bayern  |
|                                       | 140 -       | KATHER, Gottfried, F.M   | 1408.    | KALUZZA, Evald, F M<br>Landshut   |
| •                                     | 141.        | BAUMGARTEL, Albert, Ing  | 141a.    | BACEMANN, Alfred, Dipl Ing  |
|                                       |             | Schwandorf/Bayern  |          | c/o Frau Hanna Steinhilber<br>Senden bei Neuulm   |
|                                       |             | Winterstr 3 bei Dittrich   | ·        | Ulmarstr 231 bei Schiefele  |
| 4                                     | 142.        | WEIGAND, Leonhard, Bipl Ing<br>Nuenchen<br>Uhlandstr 1   | 1428.    | MEISCHRIDER, Herbert, Dr Ing<br>Braunschweig-Wolfenbuettel<br>Staftmarkt 15                                     |
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- 11 - -----

| 243. | LAYES, Walter; Ing<br>Duesseldorf-Eller                                      | 143a. | GLASMACHER, Hermann, F X<br>c/o feihoefer  |
|------|--|-------|--|
|      | Zeppelinstr 44   |       | Rheinhausen/Miederhein<br>Schwarzenberg, Martinstr 7                             |
| 144. | MILENZ, Ing  | 1448. | SCHWARRICK, F M<br>Berlin-Pankov   |
|      | c/o Tuebbecke<br>Witzenhausen<br>Am Grabenbach 2                             |       | Binzstr 20   |
| 145. | MAROGRAF, Kurt, Ing<br>Fuerth<br>Theaterstr 14 oder<br>ueber Hachnel, Berlin | 1458. | LOHMARN, Dipl Ing<br>c/o Frau Hildegard Angele<br>Landshut                       |
| 146. | TISCHER, Ing<br>Berlin-Lichterfelde  | 1468. | PREUSSE, Erich, F M<br>Landshut<br>Dr Bussmana/Daniel                            |
| 147. | MEUTH, Hans-Oth, Dipl Ing<br>Stuttgart-M<br>Nussklinge 19                    | 147s. | BRUNDER, Dr Ing<br>Berlin-Ploetzensee<br>Tegeler Weg<br>Chem Techn Reichsanstalt |
| 148. | HUFEN, Hermann, Ing<br>Duisburg-Hamborn<br>Mecklenburgerstr 18               | 1488. | JOEHREE, Wilfried, Ing<br>c/o Dr Mahlow<br>Saal bei Regensburg                   |

149. HANNEWALD, Dipl Ing Darmstadt Techn Hochschule Institut Prof Busch

- 150. SPARN, Robert, F-M\_ Ahlsfeld/Hessen
- 151. KARPER, Heinz, Dipl Ing Darmstadt-Balkhausen
- 152. SCHLICHTER, August, F M Ensdorf/Saar oder Griesdorf/Saar
- 153. VEIZE, Guenther, F M Landshut
- 154. BOLTE, Ude, Dr Ing Darmstadt Taunusstr 5
- 155. VOBADKA, Johann, F M Vien 20 Salzachstr 7

1558. ZSCHEYGE, Ernst, F M ARG Hamburg

- 156a. WALCH, Melchior, F M 156. WINKELMARK, Willi Approved for Release: 2022/06/22 C00010786sburg -4 1701
- KOKLINER, Karl-Heinz, Dipl Ing 1498. Darmstadt Bockhausstr 13 - C-0110-D-GICKEL, Walter, c/o Fri Lehnig Wit Waiblingen/Wttbg Neue Bahnhofstr 44 151a. HERMANN, Adolf, Ing Heidelberg Ya Stotz Kontakt 152a. RUERL, Valentin, F M Darmstadt Griesheim Alte Darmstahdterstr 39 153a. WILERLM, Josef, F M Myenchen 12 Barthstr 8 15ka. MICKLAS, Rudolf, P X

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- Brazen-Lueneburgerstr 39
- Zentral Personalstelle

|     |            | An Grabenbach 2 Approved for            | Release: 2022/06/22 C00010786                        |
|-----|------------|---|--|
|     | 1 k S.     | MAROGRAF, Kurt, Ing                     | 145a. LOHMANN, Dipl Ing<br>c/o Frau Hildegard Angele |
|     | ***        | Fuerth                                  | Landshut   |
|     |            | Theaterstr 14 oder                      |  |
|     |            | ueber Hachnel, Berlin                   |  |
|     |            |   | 146a. PREUSSE, Brich, F N                            |
|     | 146        | TISCHER Ing                             | Lendshut   |
|     |            | Berlin-Lichterfelde                     | Dr Bussmana/Daniel                                   |
| · . |            |   |  |
|     | 1 1 7      | MEUTH, Hans-Oth, Dipl Ing               | 147a. BRUNDER, Dr Ing                                |
|     | <b>TAI</b> | Stuttgart-M                             | Berlin-Ploetzensee                                   |
|     |            | Jussklinge 19                           | Tegeler Weg<br>Chem Techn Reichsanstalt              |
|     |            |   |  |
| -   |            | · · · · · · · · · · · · · · · · · · ·   | 148a. JOEEREE, Wilfried, Ing<br>c/o Dr Mahlow        |
|     | 148.       | HUFEN, Hermann, Ing                     | c/o Dr Mahlow  |
|     |            | Duisourg-Habooru                        | c/o Dr Mahlow<br>Saal bei Regensburg                 |
|     |            | Mecklenburgerstr 18                     |  |
| 1.1 | . 1 .      | WINDWITTE DIAL TOR                      | 149a. KORLLEER, Karl-Heinz, Dipl Ing                 |
|     | 149.       | HANNEWALD, Dipl Ing                     | Darastadt  |
|     |            | Darmstadt                               | Bockbausstr 13                                       |
|     |            | Techn Hochschule<br>Institut Prof Busch |  |
|     |            | Institut Pioi Busch                     |  |
|     |            | SPAHN, Robert, 7 X                      | GICKEL, Walter, The                                  |
|     | 120.       | Ahlsfeld/Hessen                         | c/o Frl Lehnig Wi                                    |
|     |            | Anisielu/ nesseu                        | Waiblingen/Witbg                                     |
|     |            |   | Neue Bahnhofstr 44                                   |
|     |            |   | •  |
|     |            | manner trains thin Ton                  | 151a. HERMANN, Adolf, Ing                            |
|     | 151.       | Darmstadt-Balkhausen                    | Heidelberg   |
|     |            | Darmstadt-Battinausen                   | Fa Stotz Kontakt                                     |
|     |            | :                                       |  |
|     | 169        | SCELICHTER, August, F M                 | 152a. HUEHL, Valentin, F M                           |
|     | 176.       | Ensdorf/Sear oder                       | Darmstadt Griesbeim                                  |
|     |            | Griesdorf/Saar                          | Alte Darmstahdterstr 39                              |
|     |            |   |  |
|     | 152        | VERZEE, Guenther, T.M.                  | 153a. WILHELN, JOBET, P M                            |
|     | */)*       | Landshut                                | Nyenchen 12  |
|     |            |   | Barthstr 8   |
|     |            | · _                                     | 154a. WICKLAS, Rudolf, F M<br>Bremen                 |
|     | 154.       | BOLTE, Ude, Dr Ing                      | Line Branch ware i                                   |
|     | -          | DETERTROV                               | Lueneburgerstr 39                                    |
|     |            | Teunusstr 5                             |  |
|     |            |   | 155a. ZSCHEYGE, Ernst, F M                           |
|     | 155        | VOSADEA, Johann, F.M.                   | ARS Hamburg  |
|     |            |   |  |
|     |            | Salzachstr 7                            |  |
|     |            |   | 156s. WALCH, Melchior, F M                           |
|     | 156        | WINKELMANN, Willi, P M                  | Regensburg   |
|     | ÷          | Misburg bei Hannover                    | /- Starshan - Waldent.                               |
|     |            | Arendstr 33, bei Oelze                  |  |
|     |            |   | 157a. VON LIEBEABER, Rudolf, Ing                     |
|     | 157        | . MAHLO, Heint, Dr Ing                  | Tisasi Wilheimsnochs                                 |
|     |            | Saal bei Regensburg                     | Kuhbergstr 12  |
|     |            |   |  |

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| · · · · · · · · · · · · · · · · · · · | - 12                                     | -                |                               |
|---------------------------------------|--|------------------|-------------------------------|
| 158.                                  | BRINK, Karl. Dr Ing                      | 1588.            | WILHRIM, Rudolf, Dipl Ing     |
|                                       | BRINK, Karl, Dr Ing<br>Wedel bei Hamburg |                  | c/o Wolfgang Rentsch          |
|                                       | Gaertnerstr 1 oder                       |                  | Landshut                      |
|                                       | Va Siebert & Kuehn                       |                  |                               |
| -                                     | Oberkaufungen bei Kassel                 |                  |                               |
|                                       | -  |                  |                               |
| <b>159</b> ۰                          |  |                  | BUCKERPELD, Wilhelm, Ing      |
|                                       | Vollmerz 13, Kreis                       |                  | Kochel/Oberbayern             |
|                                       | Schluechtern                             |                  | •                             |
| 160.                                  | STAGGE, Dipl Ing                         | 160a             | PAULI, Fritz, Ing             |
|                                       | Leuna bei Merseburg                      |                  | Landshut                      |
|                                       | Torveg 11                                |                  |                               |
| _                                     |  |                  |                               |
| .61.                                  | SATTLER, Wilhelm, F.N                    | 1618.            | GUENTHER, Rudolf, Dipl Ing    |
|                                       | Hanburg 20                               |                  | Prenkfurt/Kain                |
|                                       | Kremperstr 10, III                       |                  | Gartenstr 14                  |
|                                       |  |                  |                               |
| 162.                                  |  |                  | FRAME, Hans, Ing              |
|                                       | Braunschweig                             |                  | Heidepoldendorf               |
|                                       | Madamenweg 110                           |                  | bei Friedrichshafen           |
| 63.                                   | PITSCHARN, Brnst, Dipl Ing               | 1634             | TABUELER, Gerhard, 7 M        |
|                                       | Vitzenhausen                             | 40,000           | Ravensburg                    |
|                                       | Goldener Loeve                           |                  | bei Friedrichshafen           |
|                                       |  |                  |                               |
| 164.                                  | an a sum provide a sub-                  | 164a.            | EESSE, Fritz, F X             |
|                                       | c/o Georg Stork                          |                  | Landsbut                      |
|                                       | Darnstadt-Arheiligen                     |                  |                               |
| 165.                                  | LEUTORRS, Eans, P N                      | - 1 <b>6</b> 5 - |                               |
|                                       | Tieverkheinland                          | 1078.            | NORBIUS, Fritz, F M           |
|                                       | Emerichstr oder                          |                  | Eschwege, Bernhardstr 19 oder |
|                                       |  |                  | c/o Frause, Ottostr 8 oder    |
|                                       | c/o Krause, Eschwege<br>Ottostr 8        |                  | Kentschelwerke, Kassel        |
|                                       | ••••••                                   |                  | •                             |
| 66.                                   | TOKENESSEN, Heinz, Ing                   | 166a.            | EASS, Martin, Dr Ing          |
|                                       | Duesseldorf                              |                  | Priem/Chiensee - Obbayern     |
|                                       | Aachenerstr 208                          |                  |                               |
| 167.                                  | SCHORMER, Martin, F M                    | 1670             | BLETTERS, Wilhelm, F M        |
| ra f e                                | Weinheim a d Bergstr                     | Toles            |                               |
|                                       | Scimente e a Der Roti                    |                  | c/o Binvohner-Meldeant        |
|                                       |  |                  |                               |
| 168.                                  |  | 168a.            | SEERAUS, Daniel, F M          |
|                                       | c/o Dr Franz Fischer                     |                  | c/o Prof Rueter               |
|                                       | Thernberg                                |                  | Dermstadt                     |
|                                       | Ohm Polytechnikum                        | -                | Technische Kochschule         |
| 160                                   | METERSON Thread as the Marine            | 160-             |                               |
| 169.                                  | MEINZER, Ervin, F M                      | 169a.            |                               |
|                                       | Karslrube<br>Karlstr 28                  |                  | Landshut                      |
|                                       | Perter. So                               |                  | •                             |
|                                       | KAULS, Hans, F M                         | 170a.            | GRIMBERG, F M                 |
| 170.                                  | TRANSFO WARA & T 17                      |                  |                               |
| 170.                                  | Eciligenhaus bei                         |                  | Landshut                      |

171. ZLOGERMANN, Krich, hr Ing hermstadt Approved for Release: 2022/06/22 C000107861t

|   | Vollmerz 13, Kreis<br>Schluechtern Approved for I                                  | Release: 2022/06/ | Kochel/Oberbayern<br>/22 C00010786   |
|---|--|-------------------|--|
| 160.                                    | STAGGE, Dipl Ing<br>Leuna bei Merseburg<br>Torweg 11                               | 160a.             | PAULI, Fritz, Ing  |
| 161.                                    | SATTLER, Wilhelm, F M.<br>Hamburg 20   | 1614.             | GUENTHER, Rudolf, Dipl Ing.  |
|   | Eamburg 20<br>Kremperstr 10, III   |                   | Gartenstr 14   |
| 162.                                    | SCHNELLE, Henz, Ing-<br>Brawnschweig<br>Madamenweg 110                             | 162*.             | FRANK, Hans, Ing<br>Heidenoldendorf<br>bei Friedrichshafen   |
| 163.                                    | PITSCHAAN, Brast, Dipl Ing   |                   |  |
| · · · · · · · · · · · · · · · · · · ·   | Witzenhausen<br>Goldener Loeve   |                   | Bavensburg<br>bei Friedrichshafen  |
| 164.                                    | c/o Georg Stork  | ·                 | EESSE, Fritz, F X<br>Landsbut  |
|   | Darmstadt-Arbeiligen   |                   | · · · · · · · · · · · · · · · · · · ·  |
| 165.                                    | LECHDERS, Bans, F M<br>Theve/Rheinland<br>Emserichstr oder<br>c/o Krause, Eschvege |                   | MCEBIUS, Fritz, F M<br>Eschwege, Bernhardstr 19 oder<br>c/o Krause, Ottostr 8 oder<br>Hentschelwerke, Kassel |
|   | Ottostr 8  | <u> </u>          | <u>Dent</u> benelwerte, tasbel   |
| 166.                                    | TORHESSET, Heinz, Ing<br>Duesseldorf<br>Aachenerstr 208                            | 1668.             | HASS, Martin, Dr Ing<br>Priem/Chiemsee - Obbayern  |
| 167.                                    | SCHORDER, Martin, F M<br>Weinheim a d Bergstr                                      |                   | BLEITGEN, Wilhelm, F M<br>Duisburg   |
|   |  | <b>.</b>          | c/o Binwohner-Meldeant   |
| 168.                                    | ALTHER, F. M<br>c/o Dr Franz Fischer   | 1688              | SKERAUS, Daniel, F N<br>c/o Prof Hueter  |
| ····· • • • • • • • • • • • • • • • • • | Dernberg<br>Obm Polytechnikum  |                   | Dermstadt<br>Technische Hochschule   |
| 169.                                    | MEINZER, Ervin, F N<br>Karalruhe<br>Karlstr 28                                     | 169a.             | GRELL, FM<br>Lendebut  |
| 170.                                    | KANIS, Hans, F N   | 170a.             | GRINBERG. F M  |
|   | Reiligenhaus bei<br>Duesseldorf  | ·····             | Landshut   |
| 171.                                    | ZDOGRMANN, Krich, Dr Ing   |                   | SCENID, Walfo, Dr Ing<br>Dermstadt   |
|   | Last Prof Huster   |                   | Technische Hochschule  |
| 172.                                    | HINKE, Eduard; F M<br>Redel Zipf<br>Kreis Voeklabruck<br>Oesterreich               |                   | ERIMENANN, August, F M<br>Ahlen/Westf<br>Gemmericherstr_49   |
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173a. FINGADO, Dr Ing

174a. CLAUS, Harry, F M

Landshut

1765. SEIDEL, Anton, F M

Buss a d Saar

178s. HUETTENBERGER, Willi, F.M.

Bayern

Serk bei Saarburg oder

Technische Hochschule

Riedenburg an der Altmuchl

Darmstadt

Technische Hochschule

| - 13 - |  |
|--------|--|
|--------|--|

- 173. CORNELIUS, Willi, Dr Ing Darmstadt -Technische Hochschule
  - 174. HERDEMANN, August, F M Dortzund c/o Bisvohner-Meldeant
  - 1758. HARTMANN, Ing 175. SCHULZE, Kurt, Ing c/o Helmut Hachnel Berlin-Spandau Dallgov-Doeberitz-Gernersbeimerveg 61 Kreis Nauen Alemannenstr 11 oder weber Hachnel Berlib-Spandau-Germersheimerweg 61\_\_\_\_\_
  - 176. GLANDT, Brich, F.M. Eschvege C/Q Drause, Ottostr 8 Ludvigstr 32
  - RHARDT, Hermann, Ing\_\_\_\_\_\_\_ 177s. SEUFERT, Willi, Dipl Ing\_\_\_\_\_\_ Wapperthal-Barmen\_\_\_\_\_\_\_ Stuttgart-M\_\_\_\_\_\_ Eintrachtstr 14\_\_\_\_\_\_ Kepplerstr 10\_\_\_\_\_\_ 177. GERHARDT, Hermann, Ing
  - 178. BINSTEDT, Karl, Dipl Ing 1708. HUETTADDAU Landabut

.

- 179. SCHEER, Georg, Dipl Ing 179a. DITTRICE, Max, F M c/o Alois Hag. Blaubouren/Ulm Vetigerstr 1\_
- 180a. MOSCH, Rudolf, Dipl Ing Dresden N 6 Pirra Cobitz/Sachsen Boehmischestr 25, I Liebethalerstr 14 oder Landshut
- 181. WIESER, August, Dipl Ing 181a. SCHIPPMINN, Erich, Ing Muenchen-Leim Landshut Hogenbergstr 27
- 1824. SIKBIGTEROTE, Kurt, F M 182. REINIGK, Leo, T.M. Grafenveiler/Pfalz Rheinhausen/Niederrhein Buderhof 39 Major Steinbachstr 9 oder c/o Weithoefer Rheinhausen
- 183a. GAN GHOFER, Peter, P M 183. NOLTE, Kurt, F M Mgenchen 12 Sandtnerstr 12 bei Zettel Wupperthal-Barmen Sonnenstr 59 184a. FIRX, Leo, F N
- 184. SCHARLAU, Horst, F N Koln-Bickendorf Rethmar bei Hannover Mendelsohnstr 8
- TABULWE, T X 3 Ora 185. CORTH. Johannes, Approved for Release: 2022/06/22 C00010786 heardel

CIO PTEROTOCI -WIDENIN. Tng Approved for Release: 2022/06/22 C00010786[achnel 175. SCHULZE, Kurt, Ing Dallgow-Doeberitz Berlin-Spandau Gernersbeimerveg 61 Treis Nauen Alemandenstr 11 oder ueber Hachnel-Berlib-Spandan Germersheimerveg 61 176s. SEIDEL, Anton, F X 176. GLANDT, Brich, F M Serk bei Saarburg oder Bachvege Buss a d Saar Ludvigstr 32 c/a Trause, Ottostr 8 1774. SEUFERT, Willi, Dipl Ing 177. GERHARDT, Hermann, Ing Stuttgart-N Wapperthal-Barmen Kepplerstr 10 Bintrachtstr 14 Technische Hochschule HUETTENERROKR, Willi, F N 1781. 178. HINSTEDT, Karl, Dipl Ing Landshut Landabut 179a. DITTRICH, Max, Y M 179. SCHEER, Georg, Dipl Ing c/o Alois Hag. Riedenburg an der Altmuchl Blaubaurez/Ulm Metzgerstr 1 Bayern 180. REWISCH, Wolfgang, Dipl Ing c/o Landshut oder\_\_\_\_\_\_\_ Pirna Cobitz/Sachsen\_\_\_\_\_\_ Dresden N 6 Boehmischastr 25, I Liebethalerstr 14 oder Landshut 1816. SCHIFFKANN, Erich, Ing 181. WIESER, August, Dipl Ing Landshut Muenchen-Leim Hogenbergstr 27 1824. SIEBICTEROTE, Kurt, F.M. 182. HEINIGE, Leo, P M Grasenveiler/Pfalz Rheinhausen/Miederrhein Major Steinbachstr 9 Buderhof 39 oder c/o Neithoefer Rheinhausen 183a. GAN GHOFER, Peter, F M. Mgenchen 12 183. NOLTE, Kurt, F X Sandtnerstr 12 bei Zettel Wupperthal -Barmen Sonnenstr 59 184a. FINX, Leo, F N 184. SCHARLAU, Horst, F M Koaln-Bickendorf Rethmar bei Hannover Mendelsohnstr 8 185a. BICHMANN, F.M. 185. GOERTH, Johannes, Ing c/o Scheendel RRTH, Johannes, Ing Voelkenrode/Braunschweig Iandshut L F A Office Dr Stern oder ueber Hachnel Berlin-Spandau Germersheimerveg-61 834021-1590

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|       | 186. | RUOFF, Josef Jr, F M<br>Landshut<br>Buero Dr Bussmann/Daniel  |  | PFLAUME, Willi, F M<br>Solingen<br>Landvehr<br>Elberfelderstr 19 oder 90 |
|-------|------|---|--|--|
| - · · |      | en men en la construction de la |  |  |
|       | 187. | WUESTEN, Eugen, Ing<br>Kassel   |  | HASSE, Arno, Ing<br>c/o Frau Anni Kroll                                  |
|       |      | Bollaendischestr 149  | <u> </u>                               | Bielefeld-Bethel<br>Baronveg 30  |
|       |      | :   |  |  |
|       | 188. | STRAFFER, Fritz, P.N  | 188a.                                  | BLAPFERT, Everhard, F M  |
|       |      | c/o Frl Lehnig<br>Waiblingen/Wttbg  |  |  |
|       |      | Neue Bahnhofstr 44  | i i i i i i i i i i i i i i i i i i i  |  |
|       | 180  | LUDWIG 11, Dr Ing   | 1893.                                  | ZEILER, Alois, 7 M   |
|       | 109. | Berlin-Spandau  | · · · · ·                              | Landshut   |
|       |      | Pichelsdorferstr 1  |  |  |
|       |      | oder ueber Hachnel  | · · · · · · · · · · · · · · · · · · ·  | !  |
|       |      | Berlin-Spandau<br>Germersbeimerweg 61   |  |  |
|       |      | Colmerate Meg AT  |  | '  |
|       | 190. | GIESSEN, Heinrich, FIO  | 1908.                                  | BRANDKABORG, Wolfgang, F M   |
|       |      | Bitorf a d Sieg   |  | c/o Linkohr<br>Stuttgart-Cannstatt                                       |
|       |      |   |  | Wildungerstr 37  |
|       |      | ·   | 101-                                   | FIRER, Karl Wilfried, Dr Ing   |
|       | 191. | BISERT, Werder, P.M.  | 1918.                                  | Yelden Woerther See/Kaernten   |
|       |      | Darmstadt<br>Technische Hochschule  |  | Oesterreich  |
|       |      | Inst Prof Hueter  |  |  |
|       | 102. | HERKEL, Johann, F M   | 192a.                                  | REAKLI, Otto, F M  |
|       | A760 | Unterrieden-Witzenhausen  |  | Ernschwerd-Witzenhausen  |
|       |      | bei Siebert   |  | bei Karl Bdel  |
|       | 193. | SAELFLER, Walter, Ing   | 193a.                                  | PALM, Bernhard, Ing  |
|       | -/30 | Stuttgart-Kaltenthal  |  | Stuttgart-Kaltenthal   |
|       |      |   |  | Gallusstr 46   |
|       | 10k. | Exes. Iothar, Ing   |  | WILDEAGEN, Gerbard, Ing  |
|       | */** | Frankfurt/Main  | ···· · · · · · · · · · · · · · · · · · | Maenchen-Graefelfing   |
|       |      | Neumannstr 74   | · · · · · · · · · · · · · · · ·        | Lochhammer   |
|       | 105  | TIGOURD Joachim P M   | 195a.                                  | JAERNERT, Karl, P M  |
|       | 197. | FISCUER, Joachim, F M<br>c/o Lindenlaub   |  | c/o Georg Stork<br>Dermstadt-Arheiligen                                  |
|       |      | Darnstadt-Arheiligen  |  | Dernstadt-Arbeiligen   |
|       |      | Backstr 3   |  |  |
|       | 196. | DeHdF, Theophil, F M  | 1968.                                  | FERCH, Paul, F M   |
|       | •    | Kaiserslautern<br>Einvohner-Meldeamt  | ·····                                  | c/o Tuebbeckt<br>Witzenhausen  |
|       |      | <u><b>Binvohner-Meldeant</b></u>  |  | Alfzeuur neeu  |
|       | 197  | VOEPPEL, Dr Ing   | 1978.                                  | PIELER, Ludvig, Dipl Ing<br>Bickenbach a d Bergstrasse                   |
|       | -210 | c/o Kreaner   |  | Bickenbach a d Bergstrasse   |
|       |      |   |  | bei Darmstadt  |
|       |      | Gabelsbergerstr 21  |  | ana a'   |
|       | 198  | . MENSCHEL, Heinz, F M  |  | ZDMAHL, MAX, F X   |
|       |      | Berlin-Reselh Approved for Relea  | ase: 2022/06/22 C                      | 00010786 <b>Fege</b>   |

|               |   |  |             | Saronveg 30                                 |
|---------------|---|--|-------------|---|
| 1 <b>8</b> 8. | STRAFFER, Fritz, F M<br>c/o Frl Lehnig    | oved for Release: 2022/06<br>1884  |             | -   |
|               | Waiblingen/Wttbg<br>Neue Bahnhofstr-44    | · · · · · · · · · · · ·  | · · · ·     |   |
| 189.          | LUDWIG II, Dr Ing<br>Berlin-Spandau       |  | 1.          | ZELLER, Alois, F M<br>Lendshut              |
|               | Pichelsdorferstr 1                        |  |             | ty  |
|               | oder ueber Hachnel<br>Berlin-Spandau      | 4  |             | · · · · · · · · · · · · · · · · · · ·       |
|               | Germersbeimerveg 61                       |  |             |   |
| 190.          | CIESSEE, Heinrich, FMN                    | 190  | Β.          | BRANDKHBURG, Wolfgang, F X                  |
|               | Eitorf a d Sieg                           | A The International State and State State States and States a |             | c/p Linkohr<br>Stuttgart-Cannstatt          |
|               |   |  |             | Wildungerstr 37                             |
| 191.          | BIEERT, Werner, P M                       | 191  | 8.          | FIEBER, Karl Wilfried, Dr Ing               |
|               | Dermstadt                                 |  |             | Velden Woerther See/Ksernten<br>Oesterreich |
|               | Technische Hochschule<br>Inst Prof Hueter |  |             |   |
| 102.          | HERKEL, Johann, F M                       | -192   | <b>a</b> .  | RENELI, Otto, P M                           |
| -/=-          | Unterrieden-Witzenhau                     | sen  |             | Ernschwerd-Witzenhausen                     |
|               | bei Siebert                               |  | ••••••••••• | bei Karl Edel                               |
| 193.          | SARIFINE, Walter, Ing                     |  | 3 <b>a</b>  | PALN, Bernhard, Ing                         |
| • -           | Stuttgast-Kaltenthal                      |  |             | Stuttgart-Kaltenthal<br>Gallusstr 46        |
| •             | · · · · ·                                 |  |             | (ATTORSCL 40                                |
| 194.          | Frankfurt/Main                            |  |             | WILDRACKN, Gerhard, Ing                     |
|               | Neumannstr 74                             |  |             | Lochhammer                                  |
| 195.          | FISCER, Joachin, F.M.                     | 19   | 58.         | JARHUERT, Karl, P M                         |
|               | c/o Lindenlaub                            |  |             | c/o Georg Stork<br>Darmstadt-Arbeiligen     |
|               | Darmstadt-Arheiligen<br>Beckstr 3         |  |             | PELES CONG-EN HENRY CO                      |
| 196.          | DOCHOF, Theophil, Y M                     | 19   | 68.         | PERCH, Paul, F M<br>c/o Tuebbecke           |
|               | Kaiserslautern<br>Rinvohner-Meldeaut      |  |             | - Vitzenhausen                              |
|               | ATT VOLDET - MCINE CAR V                  |  |             |   |
| 197.          | VORPPEL, Dr Ing                           | <u> </u>   | 78.         | PIELER, Ludwig, Dipl Ing                    |
|               | c/o Kraener                               |  |             | Bickenbach a d Bergstrasse<br>bei Darmstadt |
|               | Darmstadt                                 |  | 1.4.1       |   |
|               | Anora 6                                   | •  |             |   |
| 198.          | MENSCHEL, Heinz, P N                      | 19   | 88          | . ZIMDAHL, Max, F X<br>Eschvege             |
|               | Berlin-Raselhorst<br>Burscheiderveg 56    |  |             | Ottostr 8                                   |
|               |   |  |             |   |
| 199.          |   | 15   | <b>19a</b>  | . GREINER, Fritz, F M<br>Frankfurt/Main     |
|               | Solingen-Ohlis<br>Manghauserstr 38        | <u></u>  |             | Thorwaldsenstr 47 bei Kaiser                |
|               | bei Fahlendorf                            |  |             |   |
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200. BOLSKE, Richard, Ing Bad Soden-Allendorf/Werra

- 201. KOECHEL, Herbert, Dipl Ing c/o Dr Arnold Landsbut
- 202. Kceln-Elettenberg Lohrbergstr 22 bei Wingensiefen
- 203. TRES, Franz, F.M. Scheffhausen/Sear oder c/o Krause, Eschwege Ottostr 8
- 204. KULWILM, Enno, F.N. Bielefeld Bendelerverke c/o Ostboff

- SCHURSSELF, Leo, Ing 205. Stuttgart : Gaensheidstr 15
- 206. HESTERBERG, RIVIN, F X Bochum-Stiepel Auf dar Ecke 7
- 207. FIEDLER, Harbert, P M Bischhausen-Witzenhausen Berggasse oder Tentschelverke, Kassel
- 208a. PISCEER, Dr Phil 208. ROTE, Dr Phil Wiesbach/Mittelfranken c/o Fr Fischer\_\_\_\_ Juarnharg Ohn Polytechnikum Kesslerstr 40
- 2098. WULLKAU, F M 209. BRANDL, Kurt, F. N c/o Metzger Essen/Ruhr Oberlahnstein bei Koblenz Siepenstr 5 bei Pollert
- 210s. TRETECEOK, Ing 210. PEHLE, Max, Ing c/o Dipl Ing Otto c/o Trl Werneburg Goettingen Landsbut Rheinhauserstr 40
- 211a. STRPHES, Krich 211. GROSS, Albert, F.X c/o Frl Lehnig c/o Fritz Horst Weber Weiblingen/Wttbg Schle mig Neue Bahnhofstr 44 An Flachsteig

osr. Albert. DiplApproved for Release: 2022/06/22 C000107862, Brich, Ing 212.

200a. PERLICE, Rudolf, Ing

c/o Frl Lehnig Waiblingen/Witbg Neus Bahnhofstr 44

- ref Tol tor

- ---- 201a. STEINERT, Gerhard, Ing c/o Henschel & Sohn Kassel
- TIMMEBHOWF, Wilhelm, Dr Ing 202a. WINKLER, Odilo, Ing Geraberg/Thuor Bahnhofstr 56 bei Schmidt
  - 203a. BEITWEILER, Mathias, F M Serk bei Saarburg oder Buss a d Saar

204s. MASKOW, Erich, F M c/o Linkohf Stuttgart-Cannetatt Wildungerstr 37

205a. METZGER, F N Landshut

-----206a. AHDRICH, Werner, Ing Mosnchen

Jagdetr 9 207a. LUTZ, August, F N c/o Tuebbecke

- Bischhausen/Witzenhausen oder Lauterbach/Hessen, Goethestr 23
- Witzenhausen oder

|                |         | c/o Dr Arnold<br>Landsbut             | Approved for Releas | se: 2022/06/                          | Kassel<br>/22 C00010786   |
|----------------|---------|---------------------------------------|---------------------|---------------------------------------|---|
|                | <u></u> | TIDOEBHOFY, Wilhelm,                  | Dr Tng              | 2024.                                 | WINKING, Odilo, Ing   |
|                | 206.    | Koeln-Elettenberg                     |                     |                                       | Geraberg/Thuer  |
|                |         | Lohrbergstr 22                        |                     |                                       | Bahnhofstr 56 bei Schmidt   |
|                |         | bei Wingensiefen                      |                     |                                       |   |
|                |         | · · · · · · · · · · · · · · · · · · · |                     |                                       |   |
|                | 203.    | TREE, FLADZ, F M                      |                     | 2034.                                 | BEITWEILER, Mathias, 7 M  |
|                |         | Schaffbausen/Sear                     | oder                |                                       |   |
|                |         | c/o Krause, Eschw                     |                     |                                       | Buss a d Saar   |
|                |         | Ottostr 8                             | -                   |                                       | IN A MARKAN TAY IN THE RELEASE OF THE RELEAS |
|                |         |                                       |                     |                                       |   |
|                | 204.    | KULWILM, Enno, F N-                   |                     | 2048.                                 | MASKOW, Erich, F M  |
|                |         | 14414 A                               |                     |                                       | c/o Linkohf<br>Stuttgart-Cannstatt  |
|                |         | Bendelerveris c/o                     | Osthoff             |                                       | Stuttgart-Cannstatt   |
|                |         |                                       |                     |                                       | c/o Linkoni<br>Stuttgart-Cannstatt<br>Wildungerstr 37   |
|                |         |                                       |                     |                                       |   |
|                | 205.    | SCHURSSELE, Leo, In                   | ·6                  | 2058.                                 | MSTZGER, F M  |
|                |         | Stuttgart                             |                     |                                       | Iandshut  |
|                |         | Gaensheidstr 15                       |                     |                                       | ·   |
|                |         |                                       |                     |                                       |   |
|                | 206.    | HESTERBERG, E.VID.                    | 7 X                 | 2064.                                 | AMBRICH, Werner, Ing  |
|                | 2001    |                                       |                     |                                       |   |
|                |         | Auf day Ecke 7                        |                     | and the second                        | Jagdetr 9   |
|                |         |                                       |                     |                                       |   |
|                | 207     | VIEDLER, Harbert,-I                   | 7. X                | 2078.                                 | LUTZ, August, T X   |
|                | EAL.    | Bischhausen-Witze                     | enhausen            |                                       | c/o Tuebbecke   |
|                |         | Berggasse oder                        |                     |                                       | Witzenhausen oder   |
|                |         | Wentschelwerks.                       | Kassel              |                                       | Bischhausen/Witzenhausen oder   |
|                |         |                                       |                     | •                                     | Lauterbach/Hessen, Goethestr 23   |
| •              | -       | e .                                   |                     | 008-                                  | . FISCHER, Dr Phil  |
|                | 208.    | BOTH, Br Phil                         |                     | CV/4                                  | Wiesbach/Mittelfranken  |
|                |         | c/o Fr Fischer                        |                     |                                       |   |
|                |         | Tuernberg                             |                     |                                       |   |
|                |         | Ohn Polytechniku                      | <b>10</b>           |                                       |   |
|                |         | Kesslerstr. 40                        |                     |                                       | · · · · · · · · · · · · · · · · · · ·   |
|                |         |                                       |                     |                                       | . WULLKAU, P M  |
|                | 209.    | BRANDL, Kurt, J. N                    |                     | 2VY#                                  | c/o Metzger   |
|                |         | Essen Ruhr                            |                     |                                       | Oberlahnstein bei Koblenz   |
|                |         | Siepenstr 5 bei                       | Pollert             |                                       | Uberthanstein der Abbrens   |
|                |         |                                       |                     |                                       |   |
|                | 210.    | PEHLE, Max, Ing                       | ·····               | 2103                                  | . TRETSCEOK, Ing  |
|                |         | c/o Frl Vernebur                      | <b>6</b>            | <u> </u>                              | c/o Bipl Ing Otto   |
|                |         | Landshut                              |                     |                                       | Goettingen  |
| -              |         | •                                     |                     |                                       | Rheinhauserstr 40   |
|                | _       |                                       |                     |                                       | STRPIES, Brich  |
|                | 211.    | GEOSS, Albert, F.)                    |                     | <u></u>                               | c/o Frl Lehnig  |
| • .<br>:       |         | c/o Fritz Horst                       | Medel               |                                       | Waiblingen/Wtbg   |
| <b>}</b>       |         | Schlewig                              |                     |                                       | Reve Bahabofstr 44  |
|                |         | Am Flachsteig                         |                     |                                       | RCNG DOLUMAYA P Ve TY   |
| <b>8</b><br>5. |         |                                       |                     |                                       | THE THE PACE THE CALL THE   |
| ۲.             | 212     | . OST, Albert, Dipl                   | Ing                 | 513                                   | BLUETENER, Brich, Ing   |
|                |         | Bad Kreumach ö                        | der                 |                                       | Leipzig 5   |
| ł.             |         | Techn Hochschul                       |                     | · · · · · · · · · · · · · · · · · · · | Spichernstr 21 bei Lehmann  |
| 4              |         |                                       |                     |                                       |   |
|                |         | Darmstadt                             |                     |                                       |   |

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| •    |   |                    | Enclosure   |
|      |   | - 16 =             |   |
| 213. | DERR, Hans, F M<br>Eschwege, Ludwigstr 4 oder<br>c/o Krause, Ottostr 8 oder<br>Geisslautern/Saar            | 213a.              | PIRKER, Erich, F M<br>Manhheim oder<br>Ludwigshafen c/o Einwohler-<br>Meldeamt  |
| 214. | FRIEEES, Karl, F M<br>c/o Frl Lehnig<br>Waiblingen/Witbg  | 2148.              | KROHN, Kurt, P M<br>Landshut  |
|      | Neus Bahnhofstr 44  |                    |   |
| 215. | AURIN, Walter<br>c/o Bachnel<br>Rerlia-Spandau<br>Germersheimerstr 61 oder<br>Schwamfeld Kreis Neuhaldensle |                    | REIBER, Wolfgang, F M<br>Tuebingen<br>Gwelinstr 6   |
| 216. | FURSER, Willi, F M<br>Eschwege<br>Bernbardtstr 26 oder<br>c/o Erause, Ottostr_8                             |                    | APEL, Brich, Ing<br>Landshut  |
| 217. | WOHL, Paul, Ing   | 2178.              | STERSECK, Walter, Ing   |
| •    | Duisburg-Hochfeld<br>St Johannstr_4   |                    | Ludvigstadt-Ottendorf/Bayern  |
| 218. | HAASE, Helmut, Ing<br>Landshut  | 218a.              | RENEDII, Walter, Ing<br>c/o Frl Lehnig<br>Waiblingen/Wttbg<br>Reve Bahnhofstr 44  |
| 219. | URTEL, Rudolf, Dipl Ing<br>c/o Dister<br>Brlangen bei Nuernberg<br>Neue Strasse 4                           |                    | LUTZ, Alfred, Dipl Ing<br>Technische Hochschule<br>Inst Prof Rueter<br>Darmstadt  |
| 220  | KUREN, T X  |                    |   |
|      | c/o August Brinkmann<br>Ablen/Westf<br>Genmericherstr 49  |                    | SCHVALBE, MAX, F M  |
|      | SACHER, Eans, Dipl Ing<br>Witzenbausen/Werra<br>Edward Schroeterstr 13                                      | 2218.              | GRAMRE, Georg, Dr Ing<br>C/o Frau Debus<br>Landshut.oder<br>Schosmabeck/Elbe<br>Bismarckstr 5b                                    |
| 222, | HANKE, Hans, F M<br>Berlin N 31<br>Hussitenstr 16   |                    | MENDE, Herbert, Ing<br>Landshut<br>Dr Bussmann/Daniel   |
| 223. | GOROES, Heims, Dipl Ing<br>Braunschweig<br>Inst Prof Busemann   |                    | WITTIG, Felix, Dr Ing<br>Goettingen<br>Dallmannstr 12 beo Sartorius<br>oder Goettingen-Treuenhagen<br>Hindeburgstr 189 bei Jordan |
| 224. | RTINKL, Johann, Ing<br>Nusraberg<br>Buchenschlag 149  | 224a.              | MAGERT, Willi, F N<br>Eschwege, Ottostr 8<br>c/o Krause   |

225. EHNI. Friedrich. Di Approved for Release: 2022/06/22 C00010786

|  |              | neue Bannholstr 44   |  |
|--|--------------|--|--|
| 2  | 275.         | AURIN, Walter Approved for Release   | se: 2022/06/22 C00010786, gang, 7 X          |
| -  | /.           | c/o Eschuel  | Tuebingen                                    |
|  |              |  |  |
|  |              | Berlia-Spandau   | Gmelinstr 6                                  |
|  |              | Germersheimerstr 61 oder   |  |
|  |              | Schwanfeld Kreis Neuhaldensleben   | ,  |
| 2  | 216.         | PUESER, Villi, P M   | Olfo ADDT Detab The                          |
|  |              |  | 216a. APEL, Brich, Ing                       |
|  |              | Bschwege   | Landshut                                     |
|  |              | Bernhardtstr 26 oder   |  |
|  |              | c/o Krause, Ottostr 8  |  |
|  | 217.         | WOHL, Paul, Ing  | 217a. STERSECK, Walter, Ing                  |
|  |              | Duisburg-Hochfeld  |  |
|  |              |  | Ludwigstadt-Ottendorf/Bayern                 |
| -1,-1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 |              | St Johannstr 4   | •  |
| 2  | 218.         | HAASE, Helmut, Ing   | SIA. RENEATY Walton The                      |
| •  |              | Landshut   | COME BOYRI - HONDRAD HALVEL JAK              |
|  |              | The second of the first of the second s | . c/o Frl Lehnig                             |
|  |              |  | Waiblingen/Wttbg                             |
|  |              | - ·  | Reue Babnhofstr 44                           |
| ~  | 20           |  |  |
| 2  | ay.          | UNTEL, MUSOLI, DIDI ING  | 219s. LUTZ, Alfred, Dipl Ing                 |
|  |              | c/o Dister   | Technische Bochschule<br>Inst Prof Rueter    |
|  |              | Erlangen bei Nuernberg   | Inst Prof Ruster                             |
|  |              | Feue Strasse 1   | Darmstadt                                    |
|  |              | -  |  |
| 2  | 20.          | KUKEN, J X   | 2214. SCHWALDE, MAX, Y N                     |
|  |              | c/o August Brinkmann   |  |
|  |              | Ableo/Westf  | Landsbut                                     |
|  |              |  | 1 March 1                                    |
|  |              | Genmericherstr 49  |  |
| 2  | 21.          | SACHER, Hans, Dipl Ing   | 221a. GRAMER, Georg, Dr Ing                  |
|  |              | Witzenhausen/Werra   | ala Press Dabus                              |
|  |              | Bland Babmanka-19  |  |
|  |              | Eduard Schroeterstr 13   |  |
|  |              |  | Schosesbeck/Elbe                             |
|  |              |  | Bismarckstr 5b                               |
|  | ~~~          |  |  |
| 2  | 22.          | HANKE, Hans, F M   | 222a. WENDE, Herbert, Ing                    |
|  |              | Berlin N 31  | Landsbut                                     |
|  |              | Russitenstr 16   | Dr Bussmann/Daniel                           |
| _  | <b>1</b> 22  |  | ·  |
| 2  | ∡ړ.          | GOBGES, Heima, Dipl-Ing  | 223a. WITTIG; Felix, Dr Ing                  |
|  |              | Braunschweig   | Goettingen                                   |
|  |              | Inst Prof Busemann   | Dallmannstr 12 beo Sartorius                 |
|  |              |  | oder Goettingen-Treuenhagen                  |
|  |              | •  | ATTENT AND ANTERED ALLE BOUNDER              |
|  |              |  | Hindeburgstr 189 bei Jordan                  |
| 2  | 224.         | REINEL, Johann, Ing  | 224a. MJOERT, Willi, F M                     |
|  |              | Nuernberg  | KEPNYADA (ITTAETY A                          |
|  |              | Buchenschlag 149   | c/o Krause                                   |
|  |              |  |  |
| 2  | 225.         | KHNI, Friedrich, Dipl Ing  | 225a. ENSCHERMANN, Dr Ing                    |
|  |              | Tuebingen  | C/O PTUP Fassbender                          |
|  |              | Brunsstr 26 (1)  | c/9 Prof Fassbender<br>Oniversiteet Erlangen |
| -  | ~ ~ *        |  |  |
| 2  | <b>226</b> . | KURZSCHENKEL, Hermann, F.M.  | 226a. KRCKL, Kurt, F X                       |
|  |              | Grossauheim/Main oder  | Landsbut                                     |
| 41   |              | Landshut Dr Bussmann/Daniel  | Dr Bussman/Deniel                            |
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| <b>,</b> •                                   |              |  |  |
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|             |  | - 17 - |   |
| 217.        | WAHLS, WEITER, F M<br>Timmaspe ueber Nortorf/Holst     | 2278.  | STAKHLI, Gustav, Dr Ing<br>Stuttgart-Cannstatt<br>Waiblingerstr |
| 28.         | RUTTEDSTOCK, Brano, Ing                                | 228a.  | STORNER, Herbert, Ing   |
|             | c/o Gerhard Brinkmeier<br>Musichen 8                   |        | Landshut oder<br>Chemnitz, Lindenstr 6 bei Kusster              |
|             | Birkkarspitze 16, III<br>bei Holz                      |        |   |
| 229.        | PAULI, Fritz, Ing<br>Laråsbut                          | 2298.  | PFLANCE, Willi, F X<br>Landshut                                 |
| 230.        | VON LIEBHABER, Rudolf<br>Kassal-Wilhelmshoebe          | 230a.  | HACKH, Rudolf, Dipl Ing<br>c/o Frl Lehnig                       |
|             | Kubbargatr 12  |        | Vaiblingen/Wttbg<br>Neue Babnhofstr 44                          |
| 231.        | STURM, Dipl Ing  | 2314.  | COELICE, Walter, F N  |
|             | Kterbach/Beckar<br>Fa Stotz-Apparatebau                | •      | c/o Bruetzel<br>Graefelfink/Muenchen<br>Aribostr 43             |
| 232.        | GLASMACHER, Hermann, F M<br>c/o Meithcefer             | 2324.  | KALUZZA, Evald, F M<br>Landshut                                 |
|             | Rheinhausen/Fiederhein<br>Schwarzenberg<br>Martinstr 7 |        | Dr Bussmann/Daniel  |
| 233.        | SCHNITT, Peter, F.M.<br>Dermstadt-Arheiligen           | 2338.  | SCHEIDT, Heinz, F M<br>Walblingen<br>Bahnhofstr                 |
| 234.        | BOLAND, Heinrich, Dipl Ing                             | 2342.  | OTTO, Wilhelm, Dipl Ing<br>c/o Roland                           |
|             | Goettingen<br>Rotestr 37                               |        | Gosttingen<br>Rötestr 37  |
| 235.        | KESSLER, Alfred, F M<br>c/o Tuebbecke                  | 2358.  | VINCLER, Otto, F M<br>c/o Linkohr                               |
|             | Witzenhausen<br>Am Grabenbach 2                        |        | Stuttgert-Cannstatt<br>Wildungerstr 37                          |
| 236.        | PREUSSE, Erich, F.M.<br>Landsbat<br>Dr Bussmann-Daniel | 2368.  | SPITE, F M<br>Landshut<br>Dr Bussmann/Daniel                    |
| 237.        | KOLLERT, Vilhelm, Ing<br>Langraut                      | 2374.  | SEIDEL, Brich<br>Markleeberg bei Leipzig                        |
| 238.        | ARTAM, Franz, P M<br>Landshut                          | 2384.  | METZGER, Alfred, F M<br>Oberlahnstein bei Koblenz               |
| 239         | BUERL, Valentin, F K<br>Darmstadt-Griesbeim            | 2394   | Landshut  |
|             | Alte Dermstaedterstr 39                                |        | Dr Bussmann/Daniel  |
|             | SCHIFFNIN, Brich, Ing                                  |        | SANDYOSS, Willi, Ing  |

bei Holz Approved for Release: 2022/06/22 C00010786 229a. PFLANTE, Willi, F M 229. PAULI, Fritz, Ing Landshut Larashut 230. VON LIEBHABER, Budolf 230s. HACKH, Redolf, Dipl Ing Kassal-Wilhelushoehe c/o Frl Lehnig Waiblingen/Wttbg Kubbargatr 12 Neve Bahnhofstr 44 231a. - GOELICH, Walter, F M 231. STURM, Dipl Ing e/o Bruetzel Graefelfink/Muenchen Boerbach/Neckar Fa Stotz-Apparatebau Aribostr-43 232. GLASMACHER, Hermann, F M 232a. KALUZZA, Ewald, F M Landshut c/o Meithoefer Dr Bussmann/Daniel Rheinhausen/Fiederhein Schwarzenberg Martinstr 7 233. SCHMITT, Peter, F M \_\_\_\_\_ 233a. SCHMIDT, Heinz, F M Waiblingen Darmstadt-Arheiligen Bahnhofstr 234. ROLADD, Heinrich, Dipl Ing 234a. OTTO, Wilhelm, Dipl Ing Goettingen c/o Roland Goettingen Rotestr 37 Rotestr 37 235. KESSIER, Alfred, F.M. 235a. WINKLER, Otto, F.M. c/o Tusbbecke c/o Linkohr Stuttgert-Cannstatt Witzenhausen 236. PREUSSE, Erich, F.M. 236a. SPITZ, F.M. Landshat Landshat Landsbut Dr Bussmann/Daniel Dr Bussmann-Daniel\_\_\_\_\_ 237a. SEIDEL, Erich 237. KULLERT, Vilbelm, Ing Markleeberg bei Leipzig Landsaut 238a. METZGER; Alfred, T M 238. ARKLAN, Pranz, P.M. Oberlahnstein bei Koblenz Landshut 239. RUEHL, Valentin, P.M. 239a. SCHNIDT, Ernst, F.M. Landshut Darmstadt-Griesbeim Dr Bussmann/Daniel Alte Darmstaedterstr 39 240. SCHIFFWARN, Brich, Ing 240a. SANDYOSS, Willi, Ing Landshut Landsbut 241. PESCHEL, Earl Heinz, F.M. 241a. PREMIEL, Walter, F.M. Landshut c/o Hachnel Berlin-Spandau Germarsheimerveg 61

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242a. HORH, Kurt, Ing

Landshut

Plauen/Voigtland

2444. ARTHAYER, F M

Wildungerstr 37

Stuttgart-Cannstatt

Aldegreverstr 26

Technische Hochschule

247a. MEUMANN, Guenther, Dipl Ing

c/o Linkohr

245a. HAUSER, Franz, Dipl Ing

Muenchen 12

246a. STRIN, Dr Ing

Darmstadt

c/o Kachler

Landshut

and to bure

Dr Bussmann/Daniel

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- 242. PRASTHOFER, Willibald, Ing Graz/Oesterreich Drei Hakengasse 32
- 243. WAICH, Melebior, F M 243a. MAWRATH, Robert, F M Regensburg c/o Finvobner-Meldeamt
- 244. HUBENTHAL, F M c/o Linkohr\_\_ Stuttgart-Cannetatt Wildungerstr 37
- 245. KLEBER, ED11, F M Grossauheim bei Hanau/Nain c/o Zeller
- Lengield/Odezvald 246. KAPPUS, Dr Ing
- 247. TAFUELER, Gerbard, F M Ravenburg bei Friedrichshafen
- 248. FISCHER, Heinrich, F.M. 248a. RUNGERT, Paul, F.M. Landshut c/o Frl Lehnig Waiblingen/Wttbg Neus Bahnhofstr 44
- 249. NAUMANN, Gerhard, F N 249a. WISTERGERST, Sigmund, Dr Ing c/o Hachnel Muenzig an Starnberger See N Muenzig an Starnberger See Mr 52 c/o Eachael Berlin Spandau Germershelmerweg 61

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- 250a. MORILER, Alfred, F N 250. SCENIDI, Kurt, F N Landshut Landshut oder c/o Stagge Laura bei Merseburg
- 251. HAXEL, Otto, Dr Phil Goettingen 251a. SEKRACH, Karl, Dr Ing Manchen Technische Hochschule Taiser Wilhelm Institut foer Physik Bunsenstr 29\_
- 252a. KARHIER, Ing 252. MOEBIUS, Pritz, F.N. Eschwege, Bernhardstr 19 Landshut oder c/o Drause, Ottostr 8 oder c/o Hentschelwerke, Kassel
- 253. GANSCHON, Hermann, Dr Ing \_\_\_\_\_ 253a. THON, Hans Eberhard, Dipl Ing Bergheim/Sieg \_\_\_\_\_\_ Stuttgart-O Cannstatterstr 212 Kirchstr 5
- -254a. BOEME, Marbort, Ing 254. TAFTZEN, Robert, Dipl-Ing -Rodenkirchen bei Bracke c/o Okkar Zosel Landshut oder Oldenburg -----

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244. HUBENTHAL, F M i<u>kk</u>, p r ala Linkohr Stattgart-Cannetatt Approved for Release: 2022/06/22 C00010786-Cannetatt Wildungerstr 37 Wildungerstr 37 245. KLEBER, Ewil, F M 245a. HAUSER, Franz, Dipl Ing Muenchen 12 c/o Zeller Aldegreverstr 26 Grossauheim bei Banau/Main 246a. SIEIN, Dr Ing 246. KAPPUS, Dr Ing Darmstadt Longfeld/Odezvald Technische Hochschule 247. TAEUBLER, Gerbard, F M 247a. HEUMANN, Guenther, Dipl Ing c/o Kaehler Ravenburg bei Friedrichshafen Landshut · . · . · · 248a. RUDORRT, Paul, F M 248. FISCHER, Heinrich, F M c/o Frl Lehnig Landshut Waiblingen/Wttbg Neus Bababofstr 44 249a. WINTERGERST, Signund, Dr Ing 249. NAUNAIN, Cerhard, F M Muenzig am Starnberger See Mr 52 c/o Hachnel Berlin-Spandau \_\_\_\_\_ Germersheimerwag 61 250. SCHMIDT, Kurt, F M 250a. MOKLIER, Alfred, F M Landsbut Landshut oder c/o Stagge : Laura bei Herseburg 251. HAXEL, Otto, Dr Phil 251a. SKEBACH, Karl, Dr Ing Maenchen Goattingen; Isiser Wilhelm Institut Technische Hochschule foer Physik Bunsenstr 29 252a. KARHLER, Ing 252. MOEBIUS, Pritz, F N EBIUS, Pritz, FM 2028. KAKHLER, Ing Bechwege, Bernhardstr 19 Landshut oder c/o Erause, Ottostr 8 oder c/o Hentschelverke, Kassel 253. GANSCHON, Harmann, Dr Ing 253a. THUN, Hans Eberhard, Dipl Ing Stuttgart-0 Bergheim/Sleg\_\_\_\_ Cannstatterstr 212 Kirchetr. 5 254a. BORDE, Marbort, Ing 254. IAFTZKI, Robert, Dipl Ing Rodenkirchen bei Bracke c/o Olkar Zosel Landshut oder Oldenburg : Malda beber Freiberg/Sathsen Chemnitserstr 21

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| Stutiggert-Cannetatt       Reinfeld-Cuslen of<br>Buildamgerstr 37         Stutiggert-Cannetatt       Reschof as Ian<br>Reschoff as Ian<br>Re |              |                                       |                           | - 19 -          |  |
|---|--------------|---------------------------------------|---------------------------|-----------------|--|
| <ul> <li>25%. Of Editboom</li> <li>25%. Of Editboom</li> <li>25%. District cannet att</li> <li>25%. Billinger Cannet att</li> <li>25%. CART, Emil, F N</li> <li>25%. CHART, Emil, F N</li> <li>25%. THIN, Johannes, Dipl Lig</li> <li>25%. CONTREER, Kurt, F N</li> <li>25%. BOEMER, F N</li> <li>26%. BOEMER, F N</li> <li>26%. MIXIS, Jobb, F N</li> <li>26%. Parts table att</li> <li>26%. Parts table att</li> <li>26%. Parts, J JD Lig</li> <li>26%. Parts, J JD Lig</li> <li>26%. Parts table att</li> <li>26%. Parts, J JD Lig</li> <li>26%. Parts table att</li> <li>26%. Parts, J JD Lig</li> <li>26%. Stable attached att</li> <li>26%. Parts, J JD Lig</li> &lt;</ul>  |              |                                       |                           | 2558.           | RICHTERS, Hermann, F M                 |
| C/O Hight-Cannetatt       Beinfeld-Coules and Rosenheim Land, Gut         Bildungerstr 37       Beinfeld-Coules and Rosenheim Land, Gut         255. HUETFURH, Wilhelm, F M       Scenheim Land, Gut         Buinburg       Co Bilswohner-Meldeamt       December 15k         257. CANER, Emil, F M       Scenheim Land, Gut         c/o Elswohner-Meldeamt       December 15k         257. CANER, Emil, F M       Scenheim Land, Gut         c/o Eristmann       Landshut         Ablea/Westf       Gemericherstr 49         258. THUENER, Furt, F M       Scenhoff, Heinrich, F         259. DOETFCHER, Furt, F M       Scenhoff, Heinrich, F         260. BOETER, F M       Constschel         c/o Frais Guntschel       C/o Frais Guntschel         jena/Saale       Schhoffstr 44         261. MUETER, Jakob, F M       Schaster 44         262. MUERS, Jakob, F M       Schaster 44         263. BETTOMER, Furt, F M       Schaster 44         264. MUERS, Jakob, F M       Schaster 44         265. Paist       Bahabofstr 44         266. BOETER, F M       Schaster 44         266. MUERS, Jakob, F M       Schaster 44         266. MUERS, Jakob, F M       Schaster 44         266. MUERS, Schaster 22       Schaster 44         266.  |              | 277.                                  | USTRANIA, F A             |                 | c/o Seidlboeck                         |
| Byttigger (* Centrative     Fussdorf am Land, Gut       255.     HIETTIER, Wilhels, F M     256a.     SPERDER, Adolf, F M       256.     Databurg     Databurg       c/o Elavohner-Meldeamt     Bachstr 154       257.     CARIN, Bail, F M     257a.       c/o Elavohner-Meldeamt     Easter 154       257.     CARIN, Bail, F M     257a.       c/o Evinsann     Landshut       balaburg     Landshut       258.     THIRI, Johannes, Dipl Lug     258a.       Weilsheim Er Walblingen/Witbg     C/o Envissi, Names, Dipl Lug     259a.       Weilsheim Er Walblingen/Witbg     C/o Envissi, Names, Dipl Lug     259a.       259.     DETTOTHER, Nurt, F M     259a.     GEUENOW, Heinrich, F M       260.     DEMERS, Jerbert, J M     260a.     WERDS, Herbert, J M       260.     DEMERS, Jakob F M     -261a.     Bahnbofstr 14       261.     MIELES, Jakob F M     -261a.     Ecuehward/Witten       262.     Parstadt     Ecuehward/Witten     Ecuehward/Witten       263.     Berlin-Friedeand     Garistingarten Z       264.     Parstadt     Ecuehward/Witten       265.     BERLEN, Dip Ing     265a.     Ecultingarten Z       265.     Berlin-Friedeand     Garistingarten Z       265. <t< td=""><td></td><td></td><td>c/o Linkonr</td><td></td><td>Reinfeld-Guelzen oder</td></t<>  |              |                                       | c/o Linkonr               |                 | Reinfeld-Guelzen oder                  |
| BIRNAGETER 51       EGRENDET Land, Gut         256.       REFFERE, Milhelm, F M       256a.       STRIFFE, Molls, F M         Datasaldorf       Dasselldorf       Dasselldorf         c/o Evintmann       Ablen/Vesti       Dasselldorf         demmericherstr 49       257a.       FUENEE, F M         255.       THEN, Johannes, Dipl Lig       258a.       FUENEEE, F M         gelizheim Br Walblingen/Witbg       C/o Evinterst, Muso       Arlboatt dear         259.       DEFFOREE, Nurt, F M       259a.       SUENCH, F M         260.       NURDE, F M       259a.       SUENCH, F M         260.       SOETHE, F M       259a.       SUENCH, F M         260.       SOETHE, F M       259a.       SUENCH, F M         260.       SOETHE, F M       250a.       SUENCH, F M  |              |                                       | Stuttgart-Cannstatt       | · · · · ·       | Wissdorf an Inn                        |
| Deisburg<br>c/o Hinvohner-Moldeart     Deisseldorf<br>Bachstr 154       257. CARTH, Reil, F M<br>c/o Eristmann<br>Allen/Vestf<br>Gemericherstr 49     257. VHCERF, F M<br>Landshut       258. THUR, Johannes, Dipl Ing<br>Welsheim Kr Walblingen/Witbg     258. THURFER, Nr Ing<br>Landshut       259. BOEFTCHER, Nurt, F M     259. GRUENOW, Heinrich, F<br>Landshut       260. BOEFER, F M<br>c/o Erist Constschel     259. GRUENOW, Heinrich, F<br>Landshut       261. MUERLER, Jakob, F M     260a. WURES, Reform 7, F<br>Lindshut       262. Pail, Krast, Dip Ing<br>Jeas/Saale     260a. WURES, Reform 7, F<br>Landshut       263. BOEFTCHER, Nurt, F M     260a. WURES, Reform 7, F<br>Landshut       264. MUERLER, Jakob, F M     -261a. GOMMER, Redolf, Ing<br>c/o Fri Ewster<br>Techn Schaschule       262. Pail, Krast, Dip Ing<br>Christian Coulinstr 22     262a. HENT, Wilfried, In<br>Berlin-FriedenaM<br>Christian Coulinstr 22       263. BETHEMIN, August, F M     263a. FAMIL, Rana Vernaer,<br>Stadehagen/Westf<br>Gemescicherstr k9       264. FIRMLICT, Rudolf, Ing<br>C/o Trl Lehnig     264a. MACH, Redolf, Dipl<br>c/o Trl Lehnig       265. SEINEL, Anton, T M     265a. THENT, Mark, Alfred, F<br>Serk bei Saanhofstr 44       265. SEINEL, Anton, T M     265a. SCHENTMUNT, Mark, J<br>Sechwage       266. TLEFTHELES, Mar, Ing<br>Seickenbactel     265a. GREUNDURT, Mark, J<br>Sechwage       266. TLEFTHELES, Mar, Ing<br>Seickenbactel     265a. GREUNDURT, Mark, J<br>Sechwage, Ottostr 2<br>Sahlenburger Chaussee 19       267. BIESIONERDONG, Kurt, F M     265a. SCHENTMUNT, Mark, J<br>Sechwage, Ottostr 2<br>Sahlenburger Chaussee 19 <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td>Vildungerstr 37</td> <td></td> <td>Rosenheim Land, Gut Weidenbach</td>   |              | · · · · · · · · · · · · · · · · · · · | Vildungerstr 37           |                 | Rosenheim Land, Gut Weidenbach         |
| Deisberg     Deisseldorf       c/o Hinvohner-Moldeast     Deisseldorf       257. CARTH, Emil, F M     257s. VIRCEE, F M       c/o Erishmann     Landshut       Ablen/Vesti     258s. THURSE, F M       258. THUR, Johannes, Dipl Ing     258s. THURSER, Br Ing       Welkheim Kr Valblingen/Witbg     - Coh Brustzel, Munn       Bahnhofstr 459     - Coh Brustzel, Munn       259. DOETRCEER, Nurt, F M     259s. GRUENOM, Heinrich, F       250. HOEKER, F M     - Coh Frithen, Kurt, F M       259. DOETRCEER, Nurt, F M     259s. GRUENOM, Heinrich, F M       260. HOEKER, F M     - Coh Frithen, Kurt, F M       261. MUELER, Jakob, F M     - 261s. GOMER, Radolf, Ing       262. PAIM, Krast, Dip Ing     - 261s. GOMER, Radolf, Ing       263. BETHENIM, August, F M     - 261s. GOMER, Radolf, Ing       263. BETHENIM, August, F M     - 263s. FAMI, Frank Venser, Stadehagen/Westf       264. FIRM, Krast, Bip Ing     262s. FIRM, Wilfried, Ing       265. BETHENIM, August, F M     - 265s. FAMI, Rank Venser, Stadehagen/Westf       265. BETHENIM, August, T M     - 265s. FAMI, Rank Venser, Stadehagen/Westf       265. SETHEL, Anton, T M     - 265s. FIRM, Alfred, F       265. SETHEL, Anton, T M     - 265s. FIRMEL, Alfred, F       265. SETHEL, Anton, T M     - 265s. FIRMEL, Alfred, F       265. SETHEL, Anton, T M     - 265s. FIRMELMER, Alfred, F <td></td> <td></td> <td></td> <td>2564.</td> <td>STRIEVE, Adolf, F N</td>   |              |                                       |                           | 2564.           | STRIEVE, Adolf, F N                    |
| Pailaburg     Bachstr 154       c/o Rinvohner-Moldeant     257s. VINCERZ, F M       257. CARTH, Rail, F M     257s. VINCERZ, F M       c/o Briakmann     Allen/Westf       Gemmericherstr 49     258s. THURPERS, Br Ing       258. THIRY, Johannes, Dipl Ing     258s. THURPERS, Br Ing       Weikheim & Weiblingen/Wittbg     C/o Brustzal, Muan       Bahnhofstr 459     C/o Brustzal, Muan       259. DOETTCHER, Kurt, F M     259s. (BUENOW, Heinrich, F       260. BOETRER, F M     260s. WUENS, Berbert, F M       c/o Heins Conntechel     Violingen/Wittbg       jens (Saale     Yahlofstr 14       261. MUELER, Jakob, F M     -261s. BOMER, Rudolf, Ing       c/o Fri Lehnig     Reachward/Witteal       rechn Hochschule     Reachward/Witteal       Darastadt     Berlin-Friedeand       262. PALM, Frast, Diy Ing     262s. HENT, Wilfried, In       263. BETHEL, Matohf, Ing     263s. FAME, Brast Verser;<br>Ahlen/Westf       264. FERLICE, Rudolf, Ing     264s. HATH, Brain Verser;<br>Ahlen/Westf       265. SETHEL, Anton, F M     265s. HENT, Waiblingen/Wittbg       265. SETHEL, Anton, F M     265s. CHENTENH, Mar, Jieg       265. SETHEL, Anton, F M     265s. CHENTENH, Mar, Jieg       265. SETHEL, Anton, F M     265s. CHENTENH, Mar, Jieg       266. VIERTHER, Mar, Ing     265s. CHENTENH, Mar, Jieg  |              | 220.                                  | HIETTIES, WILLEIN, F.W.   |                 | Duesseldorf                            |
| <ul> <li>C/O EINVALUE 797 101 201</li> <li>257. CARTH, Reil, F M</li> <li>C/O Eristmann</li> <li>Ahlen/Vestf</li> <li>Gemmericherstr 49</li> <li>258. THURF, Johannes, Dipl Ing</li> <li>258. THURF, Johannes, Dipl Ing</li> <li>259. EXEMPTIONER, Nurt, F M</li> <li>259. EXEMPTIONER, Nurt, F M</li> <li>260. POETRER, Nurt, F M</li> <li>260. POETRER, Nurt, F M</li> <li>260. EXEMPTIONER, Nurt, F M</li> <li>260. POETRER, Nurt, F M</li> <li>260. Schreit 459</li> <li>261. MURTLER, Jakob, F M</li> <li>262. Pail, Krast, Dip Ing</li> <li>263. EXEMPTIONER, Nurt, F M</li> <li>264. Pail, Krast, Dip Ing</li> <li>265. Pail, Krast, Dip Ing</li> <li>265. Pail, Krast, Dip Ing</li> <li>265. Pail, Krast, Dip Ing</li> <li>266. Pail, Krast, Dip Ing</li> <li>266. Pail, Krast, Dip Ing</li> <li>267. Filler, August, F M</li> <li>263. EXEMPTIONER, T M</li> <li>264. PHILICK, Rudolf, Ing</li> <li>265. Schladestrik</li> <li>266. PHILICK, Rudolf, Ing</li> <li>267. Filler, Jakob, T M</li> <li>265. Schladestrik</li> <li>266. Philogen/Withg</li> <li>267. Filler, Jakob, T M</li> <li>267. Schladestrik</li> <li>268. EXEMPTION Schladestrik</li> <li>269. Schladestrik</li> <li>260. Schladestrik</li> <li>260. Schladestrik</li> <li>261. MITHER, May, T M</li> <li>263. EXEMPTION Schladestrik</li> <li>264. Philogen/Withg</li> <li>265. Schladestrik</li> <li>266. Schladestrik</li> <li>266. Schladestrik</li> <li>267. Sither Schladestrik</li> <li>266. Schladestrik</li> <li>267. Sither Schladestrik</li> <li>268. Schladestrik</li> <li>269. Schladestrik</li> <li>260. Schladestrik</li> <li>261. Schladestrik</li> <li>262. Schladestrik</li> <li>263. Schladestrik</li> <li>264. Schladestrik</li> <li>265. Schladestrik</li> <li>266. Schladestrik</li> <li>266. Schladestrik</li> <li>267. Sither Schladestrik</li> <li>266. Schladestrik</li> <li>266. Schladestrik</li> <li>266. Schladestrik</li> <li>266. Schladestrik</li> <li>267. Sither Schladestrik</li> <li>267. Sither Schl</li></ul>  |              |                                       | Duisburg                  |                 |  |
| 2/1       Call & Frishmann<br>Ablea / Westf<br>Gemmericherstr 49         253.       THIRT, Johannes, Dipl Ing<br>Welkheim Kr Waiblingen/Witbg       253e.       THURMERS, Br Ing<br>Landshut eder<br>C/O Brustscal, Nuce<br>Aribostr 42         259.       DOFTROMER, Fur, F M       259a.       GRUENCH, Heinrich, F<br>Landshut         250.       DOFTROMER, Fur, F M       259a.       GRUENCH, Heinrich, F<br>Landshut         250.       DOFTROMER, F M       250a.       VURBS, Herbert, F M         260.       DOFTROMER, F M       250a.       VURBS, Herbert, F M         260.       DOFTROMER, F M       250a.       VURBS, Herbert, F M         260.       DOFTROMER, F M       260a.       VURBS, Herbert, F M         261.       MURIER, Jakob, F M       260a.       VURBS, Herbert, F M         261.       MURIER, Jakob, F M       261a.       SOMMER, Radolf, Ing<br>C/O Frof Restor         262.       PAIM, Erast, Dip Ing<br>Lins/Doaw       262a.       FLENT, Wilfried, Ing<br>Lins/Doaw         263.       BHINGUT, August, F M       263a.       FLENT, Radolf, Bip<br>C/O Fri Lehnig         263.       BHINGUT, August, F M       263a.       FLENT, Rudolf, Bip<br>C/O Fri Lehnig         264.       FRINCH, August, F M       265a.       FLENT, Rudolf, Bip<br>C/O Fri Lehnig         265.       SETINEL, Aston, F M       265a.  |              |                                       | c/o Einvohner-Meldeamt    |                 |  |
| 2/1       Call & Frishmann<br>Ablea / Westf<br>Gemmericherstr 49         253.       THIRT, Johannes, Dipl Ing<br>Welkheim Kr Waiblingen/Witbg       253e.       THURMERS, Br Ing<br>Landshut eder<br>C/O Brustscal, Nuce<br>Aribostr 42         259.       DOFTROMER, Fur, F M       259a.       GRUENCH, Heinrich, F<br>Landshut         250.       DOFTROMER, Fur, F M       259a.       GRUENCH, Heinrich, F<br>Landshut         250.       DOFTROMER, F M       250a.       VURBS, Herbert, F M         260.       DOFTROMER, F M       250a.       VURBS, Herbert, F M         260.       DOFTROMER, F M       250a.       VURBS, Herbert, F M         260.       DOFTROMER, F M       260a.       VURBS, Herbert, F M         261.       MURIER, Jakob, F M       260a.       VURBS, Herbert, F M         261.       MURIER, Jakob, F M       261a.       SOMMER, Radolf, Ing<br>C/O Frof Restor         262.       PAIM, Erast, Dip Ing<br>Lins/Doaw       262a.       FLENT, Wilfried, Ing<br>Lins/Doaw         263.       BHINGUT, August, F M       263a.       FLENT, Radolf, Bip<br>C/O Fri Lehnig         263.       BHINGUT, August, F M       263a.       FLENT, Rudolf, Bip<br>C/O Fri Lehnig         264.       FRINCH, August, F M       265a.       FLENT, Rudolf, Bip<br>C/O Fri Lehnig         265.       SETINEL, Aston, F M       265a.  | · ··· ·      | AP7                                   |                           | 2578.           | VINCENZ, P X                           |
| c)       Ahlen/Vestr         Gesmericherstr 49         258.       THIRT, Johannes, Dipl Ing       258.         Welzheim Kr Waiblingen/Witbg       -         Bahnhofstr 459       -         259.       DOFTNERE, Rurt, F M         Landshut       259.         250.       DOFTNERE, Rurt, F M         260.       DOFTNER, F M         260.       DOFTNER, F M         260.       DOFTNER, F M         260.       NORDE, F M         260.       DOFTNER, F M         261.       MIRIERS, Jakob, F M         262.       Fainschweit         263.       MIRIER, Jakob, F M         262.       PAIM, Ernst, Diy Ing         263.       MIRIE, August, F M         263.       PRIMIT, August, F M         263.       PRIMIT, Rudolf, Ing         264.       PAIM, Ernst, Bei B         265.       PRIMIT, Rudolf, Ing         266.       PRIMIT, Rudolf, Ing         267.       PRIMIT, Rudolf, Ing         268.       PRIMIT, Rudolf, Ing         269.  |              | 271+                                  |                           |                 | Landshut                               |
| Gemmericherstr 49 258. THIRY, Johannes, Dipl Ing 258a. THURNER, Br Ing Weitheim Kr Walblingen/Withg C/O Brustzel, Muen Bahnhofstr 459 259. BOETTCHER, Kurt, 7 M 259a. GRUENEW, Heinrich, F Landshut 250a. WURRS, Berbert, 7 M C/O Beins Ouentschel C/O Tri Lehnig Jean/Seale Valblingen/Withg Katharinenstr 23 Eahnhofstr 44 261. MUELER, Jakob, F M 260a. KLENE, Wilfried, Ing C/O Frof Isaver Reserved Franchowerd/Witsen Christista Coulinetr 22 Case. KLENE, Wilfried, Ing Ernstadt 262. FAIM, Frast, Dip Ing 262a. KLENE, Wilfried, Ing Commericherstr 49 263. BRITIONIN, August, 7 M 263a. FRAME, Hanz Werner, Allen/Westf Gemmericher 49 264. FRILICE, Rudolf, Ing C/O Fri Lehnig 264a. Hanne Werner, Millingen/Withg Back 2 Case. Hillingen/Withg Jean/Seale 2011. Statthagen/Westf Gemmericherstr 49 265. SKINEL, Aston, 7 M 265a. IEBELER, Alfred, F M 265. HINTHANNES, Max, Ing 266a. SCHEDWALER, Alfred, F M 265. HINTHANNES, Max, Ing 266a. SCHEDWALER, Alfred, F M 265. HINTHANNES, Max, Ing 266a. SCHEDWALER, Alfred, F M 265. HINTHANNES, Max, Ing 267a. EIMMAL, Max, J 266. HINTHANNES, Max, Ing 267a. EIMMAL, Max, F M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Kurt, 7 M 267a. EIMMAL, Max, 7 M 267. SIRBIOTER, Ku  |              |                                       |                           |                 | ······································ |
| 258. THIRI, Johannes, Dipl Ing       258. THURNER, Dr Ing         Welzheim hr Walblingen/Witbg  |              |                                       | Ahlen/WestI               |                 |  |
| Weitheim KW Waldlingen/Wiveg       C/o Brustzel, Muen<br>Aribostr 459         Bahnhofstr 459       C/o Brustzel, Muen<br>Aribostr 42         259. DOETTCHER, Nurt, F M       259a. GRUENOW, Heinrich, F M         260a. WURNS, Herbert, F M       C/o Fri Lehnig<br>Jens/Scale       C/o Fri Lehnig<br>Vaiblingen/Withg         261. MUELER, Jakob, F M       -261a. E000ER, Redolf, Ing<br>C/o Frid Eveter       Bahnhofstr 44         262. PALM, Brast, Dip Ing       262a. HINH, Wilfried, Ing<br>C/o Frid Eveter       Berlin-Friedanak         263. BETHENDAY, August, F M       263a. FRHE, Hans Verner,<br>Ahlen/Westf       263a. FRHE, Bans Verner,<br>Stattagen/Weitfe         264. PENLICK, Rudolf, Ing       264a. HANH, Rudolf, Dipl<br>C/o Fri Lehnig       Vaiblingen/Weitfe         265. SETIMEL, Aston, F M       265a. INSELER, Alfred, F       265a.         265. SETIMEL, Aston, F M       265a. SCHENNERMAN, Mar, J       265a. SCHENNERMAN, Mar, J         266. HENNERMANNEE, Mar, Ing       266a. SCHENNERMAN, Mar, J       266a. SCHENNERMAN, Mar, J         266. HENNERMANNEE, Mar, Ing       266a. SCHENNERMAN, Mar, J       266a. SCHENNERMAN, Mar, J         266. HENNERMER, Air, Ing       266a. SCHENNERMAN, Mar, J       266a. SCHENNERMAN, Mar, J         266. HENNERMER, Air, Ing       266a. SCHENNERMAN, Mar, J       266a. SCHENNERMAN, Mar, J         266. HENNERMER, Mar, Ing       266a. SCHENNERMAN, Mar, J       267a. ELMANAN, Mar, J </td <td></td> <td></td> <td>Gemmericherstr 49</td> <td></td> <td></td>   |              |                                       | Gemmericherstr 49         |                 |  |
| Weitheim KW Waldlinger/Wiveg       C/o Brustzel, Muen<br>Aribostr 459         Bahnhofstr 459       C/o Brustzel, Muen<br>Aribostr 42         259. DOETTCHER, Nurt, F M       259a. GRUENOW, Heinrich, F M         260a. WURNS, Herbert, F M       C/o Fri Lehnig<br>Jens/Scale       C/o Fri Lehnig<br>Vaiblinger/Witte<br>Bahnhofstr 44         260. BOEKER, F M       C/o Fri Lehnig<br>Jens/Scale       Vaiblinger/Witte<br>Bahnhofstr 44         261. MUELER, Jakob, F M       -261a. EOMORE, Redolf, Ing<br>C/o Frid Fuster       Bahnhofstr 44         262. PALM, Brast, Dip Ing       262a. HINH, Wilfried, Ing<br>Lins/Bonaw       Berlin-Friedanak         263. BETHENDIN, August, F M       263a. FEMEL, Hans Verner,<br>Ahlen/Westf       263a. FEMEL, Hans Verner,<br>Stadtinger/Westf         264. PENLICK, Rudolf, Ing       C/o Fri Lehnig<br>Waiblingen/Witbg       Vaiblingen/Witbg         18 och Fillen, Auton, F M       265a. IMENLER, Alfred, F         265. SETIMEL, Aston, F M       265a. SCHEUNDAIN, Max, J<br>Seitchenbustel         265. SETIMEL, Aston, F M       265a. SCHEUNDAIN, Max, J<br>Seitchenbustel         266. HIETHENAMEE, Max, Ing       266a. SCHEUNDAIN, Max, J<br>Seitchenbustel         266. KIETHENAMEE, Max, Ing       266a. SCHEUNDAIN, Max, J<br>Seitchenbustel         266. KIETHENAMEE, Max, Ing       267a. ELDMAEL, Max, J<br>Sechvege         267. SIEDIOTERCOTH, Chausee 19       267a. ELDMAEL, Max, J<br>Sechvege, Ottostr<br>Budarhof 39   |              | ~~ <b>0</b> `                         |                           |                 | TRUENPER. Dr Ing                       |
| Weitheim RY Waldlinger/Wives       C/o Brustzel, Muen<br>Aribostr 459         Bahnhofstr 459       C/o Brustzel, Muen<br>Aribostr 42         259. DOETTCHER, Nurt, F M       259a. GRUENOF, Heinrich, F<br>Landshut         260a. WURNS, Herbert, F M       C/o Fri Lehnig<br>Jena/Scale       C/o Fri Lehnig<br>Valblinger/Witte<br>Bahnhofstr 44         260. DOETTCHER, Jakob, F M       260a. WURNS, Herbert, F M         260. NURLER, Jakob, F M       C/o Fri Lehnig<br>Jena/Scale       Bahnhofstr 44         261. MURLER, Jakob, F M       -261a. EOMORE, Rudolf, Ing<br>C/o Frister       Bahnhofstr 44         262. PALM, Brast, Dip Ing       262a. HINH, Wilfried, Ing<br>Lins/Donaw       Berlin-Friedanak         263. BRITHOMIN, August, F M       263a. FRAME, Hans Verner,<br>Ahlen/Westf       263a. FRAME, Hans Verner,<br>Stadtingen/Witbg         264. PENLICE, Rudolf, Ing       264a. HAMME, Rudolf, Dipl<br>C/o Fri Lehnig       Valblingen/Hitbg         265. SEIDEL, Anton, F M       265a. HESSUER, Alfred, F         265. SEIDEL, Anton, F M       265a. KESSUER, Alfred, F         265. SEIDEL, Anton, F M       265a. KESSUER, Alfred, F         266. HIETHEMAMEE, Max, Ing       266a. SCHEUNDAMIN, Max, J         266. HIETHEAMMEE, Max, Ing       266a. SCHEUNDAMIN, Max, J         266. HIETHEAMMEE, Max, Ing       266a. SCHEUNDAMIN, Max, J         266. HIETHEAMMEE, Max, Ing       266a. SCHEUNDAMIN, Max, J <td< td=""><td></td><td>250.</td><td>THIRI, JORSBACE, DIDI INS</td><td></td><td>Tandshut oder</td></td<>   |              | 250.                                  | THIRI, JORSBACE, DIDI INS |                 | Tandshut oder                          |
| Aribostr 42         259. BOETRCHER, Nurt, F N         Landsbut         260. BOEKER, F M         C/o Reins Cuentschel         Jens/Stale         Valbingen/Hibg         Katharinenstr 23         261. MURLER, Jakob, F M         262. PAIM, Erast, Dip Ing         263. BOETRCHER, Furt, F M         264. MURLER, Jakob, F M         265. PAIM, Erast, Dip Ing         266. MURLER, Jakob, F M         267. PAIL, Krast, Dip Ing         268. Einstein Coulinstr 22         269. BAIM, Erast, Dip Ing         262. PAIM, Erast, Dip Ing         263. BETTRAND, August, F M         264. FALLER, Rudolf, Ing         265. FEMEL, Rudolf, Ing         266. FEMEL, Rudolf, Ing         267. FTI Lehnig         265. ENDELE, Anton, F M   |              |                                       |                           | *               | c/o Bruetzel, Muenchen-Graefelfing     |
| 259. BOETTCHER, Nurt, F M       259a. GEUENOW, Heinrich, F         260. BOEKER, F M       260a. WURBS, Herbert, F M         260. BOEKER, F M       260a. WURBS, Herbert, F M         260. BOEKER, J M       260a. WURBS, Herbert, F M         260. BOEKER, J M       260a. WURBS, Herbert, F M         260. MURELER, Jakob, F M       260a. Wurds, Herbert, F M         261. MURLER, Jakob, F M       261a. BOMMER, Hedolf, Ing         262. PALM, Erast, Dip Ing       262a. HIER, Wilfried, Ing         262. PALM, Erast, Dip Ing       262a. HIER, Wilfried, Ing         263. BETHTKAM, August, F M       263a. FRAM, Wilfried, Ing         264. FRAME, East, Dip Ing       263a. FRAME, Hans Verner,         265. BETHTKAM, August, F M       263a. FRAME, Bans Verner,         266. FRIEL, Auton, J M       265a. HERME, Alfred, F         265. SEHTEL, Anton, F M       265a. HERME, Alfred, F         266. HIERMANNES, Mar, Ing       265a. SCHEMEMAN, Mar, J         266. HIERMANNES, Mar, Ing       266a. SCHEMEMAN, Mar, J         266. HIERMANNES, Mar, Ing       266a. SCHEMEMAN, Mar, J         266. HIERMANNES, Mar, Ing       266a. SCHEMEMANN, Mar, J         266. HIERMANNES, Mar, Ing       266a. SCHEMEMANN, Mar, J         266. HIERMANNES, Mar, Ing       266a. SCHEMEMANN, Mar, J         267. SIEBIOTERCHT, F M       267a. EIMMANN  |              |                                       | Bahnhofstr 459            |                 | CLO PLAAART' MACHANA AT BOLATING       |
| 255. Boilt Calling and y for a Landshut       Landshut         260. BOEXLER, Y M       260e. WURDE, Herbert, Y M         260. BOEXLER, Y M       260e. WURDE, Herbert, Y M         261. MURTLER, Jakob, Y M       3ahnhofstr 44         261. MURTLER, Jakob, Y M       -261e. SOMMER, Radolf, Lag         262. PAIM, Ernst, Dip Lag       262e. Hight, Wilfried, La         263. BRITHOMIN, August, F M       263e. Stathagen/Westf         264. PRINCH, Rudolf, Lag       Caeciliangarten 2         265. SETIMEL, Anton, F M       265e. HERE, Rudolf, Bipl         265. SETIMEL, Anton, F M       265e. HERE, Alfred, F         265. SETIMEL, Anton, F M       265e. HERE, Alfred, F         266. HIEREL, Max, Ing       265e. SCHEUNDAWN, Max, J         266. HIEREL, Max, Ing       265e. SCHEUNDAWN, Max, J         266. KIERER, Max, Ing       265e. SCHEUNDAWN, Max, J         266. KIEREROTHE, Max, Ing       265e. SCHEUNDAWN, Max, J         266. SCHEUNDAWN, Max, Ing       265e. SCHEUNDAWN, Max, J         267. SIEBIOTHEROTH, Kurt, F M       267e. ELDMAHL, Max, F M         266. SCHEUNDAWN, Kar, Ing       265e. SCHEUNDAWN, Max, J         266. SCHEUNDAWN (Lausee 19       267e. ELDMAHL, Max, F M         267. SIEBIOTHEROTH, Kurt, F M       267e. ELDMAHL, Max, F M         267. SIEBIOTHEROTH, Kurt, F M       267e. ELDMAHL, Max,   |              |                                       |                           |                 | Aridostr 42                            |
| <ul> <li>Landshut</li> <li>Landshut</li> <li>Landshut</li> <li>Landshut</li> <li>260. BOEKER, F M</li> <li>C/O Ecins Guentschel</li> <li>C/O Fri Lehnig</li> <li>Jens/Scale</li> <li>Valblingen/Witbg</li> <li>Katharinenstr 23</li> <li>261. MUELER, Jakob, F M</li> <li>262. MIK, Ernst, Dip Ing</li> <li>262. PAIM, Ernst, Dip Ing</li> <li>263. BETHEMAN, August, F M</li> <li>263. BETHEMAN, August, F M</li> <li>263. BETHEMAN, August, F M</li> <li>264. PERLICE, Rudolf, Ing</li> <li>264. PERLICE, Rudolf, Ing</li> <li>265. SETIMEL, Aston, F M</li> <li>265. SETIMEL, Mary, Ing</li> <li>266. HARTHERMES, May, Ing</li> <li>266. SCHEDIEDUMER, May, Ing</li> <li>266. SCHEDIEDUME, May, Ing</li> <li>267. SIEBIOTER, Kurt, F M</li> </ul>   |              |                                       |                           |                 | mannest Wednesdah W.M.                 |
| Landshut Lan  |              | 259.                                  | BORTACHER, Kurt. F X      | 2592.           | GRUKNON, Heinrich, F. M                |
| c/o Heinz Guentschel       C/o Heinz Guentschel         Jens/Saale       Yablingen/Witbg         Katharinenstr 23       Sahnhofstr 44         261. MURILER, Jakob, F M       -261a. SOMMER, Redolf, Ing         c/o Prof Enstor       Ermschwerd/Witzenl         Techn Hochschule       Ermstadt         262. PALM, Ernst, Dip Ing       262a. KIENK, Wilfried, In         Lins/Donau       Berlin-Friedenau         Christian Coulinstr 22       Casciliangarten 2         263. ERIMIKAN, August, F M       263a. FRAME, Hanz Verner,         Ahlen/Westf       Stadthagen/Nestf         Gemmericherstr 49       Gobernstr 43 bei B         264. FERMER, Rudolf, Ing       264a. MACHH, Budolf, Bipl         c/o Fri Lehnig       Waiblingen/Witbg         Weiblingen/Witbg       Waiblingen/Witbg         Bern Bahnhofstr 44       Esca Bahnhofstr 44         265. SKIDEL, Anton, F M       265a. IESSIER, Alfred, F         266. HIEDELANDES, Max, Ing       265a. SCHEUNEMANN, Max, I         Stickenbasttel       Jaschwege         bi Grafennesiter (Pfalz       Gotostr 2         salenburger Chaussee 19       267a. ZIMAEL, Max, F M         267. SIEBIOTERECTE, Kurt, F M       267a. ZIMAEL, Max, F M         Grafennesiter/Pfalz       Eschwege, Ottostr  |              |                                       |                           |                 | Landshut                               |
| <ul> <li>c/o Heinz Guentschel</li> <li>Jens/Saale</li> <li>Katharinenstr 23</li> <li>Sahnhofstr 44</li> <li>Schurtzen 23</li> <li>Schurtzen 24</li> <li>Schurtzen 24</li> <li>Schurtzen 24</li> <li>Schurtzen 25</li> <li>Schurtzen 25</li> <li>Schurtzen 25</li> <li>Schurtzen 26</li> <li>Schurtzen 27</li> <li>Schurtzen 26</li> <li>Schurtzen 27</li> <li>Schurtzen 26</li> <li>Schurtzen 27</li> <li>Sc</li></ul>  |              |                                       |                           | - (             |  |
| c/o Heinz Guentschel       C/o Heinz Guentschel         Jens/Saale       Yablingen/Witbg         Katharinenstr 23       Sahnhofstr 44         261. MURILER, Jakob, F M       -261a. SOMMER, Redolf, Ing         c/o Prof Enstor       Ermschwerd/Witzenl         Techn Hochschule       Ermstadt         262. PALM, Ernst, Dip Ing       262a. KIENK, Wilfried, In         Lins/Donau       Berlin-Friedenau         Christian Coulinstr 22       Casciliangarten 2         263. ERIMIKAN, August, F M       263a. FRAME, Hanz Verner,         Ahlen/Westf       Stadthagen/Nestf         Gemmericherstr 49       Gobernstr 43 bei B         264. FERMER, Rudolf, Ing       264a. MACHH, Budolf, Bipl         c/o Fri Lehnig       Waiblingen/Witbg         Weiblingen/Witbg       Waiblingen/Witbg         Bern Bahnhofstr 44       Esca Bahnhofstr 44         265. SKIDEL, Anton, F M       265a. IESSIER, Alfred, F         266. HIEDELANDES, Max, Ing       265a. SCHEUNEMANN, Max, I         Stickenbasttel       Jaschwege         bi Grafennesiter (Pfalz       Gotostr 2         salenburger Chaussee 19       267a. ZIMAEL, Max, F M         267. SIEBIOTERECTE, Kurt, F M       267a. ZIMAEL, Max, F M         Grafennesiter/Pfalz       Eschwege, Ottostr  |              | 260.                                  | BORKER, F X               | 2604.           | WURBS, Herbert, F A                    |
| 261. MUELLER, Jakob, F.M.       -261a. SOMMER, Rudolf, Lag         C/o Prof Evetor       Ermschwerd/Witzen         Techn Hochschule   |              |                                       | c/o Reint Guentschel      |                 | c/o Trl Lehnig                         |
| 261. MUELLER, Jakob, F.M.       -261a. SOMMER, Rudolf, Lag         C/o Prof Evetor       Ermschwerd/Witzen         Techn Hochschule   |              |                                       | Taxa (Gasla               |                 | Waiblingen/Wttbg                       |
| 261. MUELLER, Jakob, F.M.       -261a. SOMMER, Rudolf, Lag         C/o Prof Evetor       Ermschwerd/Witzen         Techn Hochschule   |              |                                       | Schelsenete 02            |                 | Lahnhofstr 44                          |
| C/O FROI Resolution         Techn Hockschule         Darmstadt         262. PALM, Ernst, Dip Lig       262a. KLEHK, Wilfried, In,<br>Lins/Donaw         Christian Coulinstr 22       Gaeciliangarten 2         263. BRINKMAN, August, 7 M       263a. FRAME, Hans Werner,<br>Ahlen/Westf       Stadthagen/Westf         264. PERLICE, Rudolf, Ing       264a. MACH, Budolf, Dipl<br>c/o Fri Lehnig       264a. MACH, Budolf, Dipl<br>c/o Fri Lehnig         Waiblingen/Witbg       Waiblingen/Witbg       Waiblingen/Witbg         West Bahnhofstr 44       Euse Bahnhofstr 44         265. SERINEL, Anton, 7 M       265a. KERSULER, Alfred, F         265. SERINEL, Anton, 7 M       265a. KERSULER, Alfred, F         266. KLETHEAMNES, Max, Ing       266a. SCHEDMENAIN, Max, J         266. KLETHEAMNES, Max, Ing       266a. SCHEDMENAIN, Max, J         Stickenbusttel       Eschwege         bei Cunhavan       Ottostr 2         Sahlenburger Chaussee 19       267a. ZIMMAEL, Max, 7 M         267. SIEBIOTEREOTE, Kurt, 7 M       267a. ZIMMAEL, Max, 7 M         Grafenreiler/Pfalz       Eschwege, Ottost:         Buderhof 39   |              |                                       |                           |                 |  |
| C/O FRI AUSCA         Techn Bochschule         Darnstadt         262. PALM, Ernst, Dip Log       262a. KLEHK, Wilfried, In,<br>Lins/Donaw         Christian Coulinstr 22       Gaeciliangarten 2         263. BRIMEMAN, August, 7 M       263a. FRAME, Hans Werner,<br>Ahlen/Westf       Gaeciliangarten 2         264. PERLICE, Rudolf, Ing       264a. MACH, Budolf, Dipl<br>c/o Fri Lehnig       John 1000 (1000)         265. SERINEL, Anton, 7 M       265a. KERSULER, Alfred, F         265. SERINEL, Anton, 7 M       265a. KERSULER, Alfred, F         265. SERINEL, Anton, 7 M       265a. KERSULER, Alfred, F         265. SERINEL, Anton, 7 M       265a. KERSULER, Alfred, F         266. KLENELANDES, Max, Ing       266a. SCHENEMANN, Max, J         266. KLENELANDES, Max, Ing       266a. SCHENEMANN, Max, J         267. SIEBIOTENEOTH, Kurt, F M       267a. ZIMMAH, Max, F M         267. SIEBIOTENEOTH, Kurt, F M       267a. ZIMMAH, Max, F M         267. SIEBIOTENEOTH, Kurt, F M       267a. ZIMMAH, Max, F M         267. SIEBIOTENEOTH, Kurt, F M       267a. ZIMMAH, Max, F M         267. SIEBIOTENEOTH, Kurt, F M       267a. ZIMMAH, Max, F M         Grafenreiler/Pfalz       Beckwege, Ottost:         Buderhof 39       267a. ZIMMAH, Max, F M   |              | <u>661</u>                            | NETET TER JAKAN P         | -2618.          | SOMOER, Rudolf, Ing                    |
| Toth Hockschule         Techn Hockschule         Darmstadt         262.       PALM, Ernst, Dip Ing         Lins/Donau       Berlin-Friedenau         Christian Coulinstr 22       Caeciliangarten 2         263.       BERINDOLW, August, F M       263a.         263.       BERINDOLW, August, F M       263a.         263.       BERINDOLW, August, F M       263a.         264.       Stadthagen/Nestf         Gesmericherstr k9       Obernstr k3 bei B         264.       FERLICK, Rudolf, Ing       264a.         C/o Fri Lehnig       Vaiblingen/Nitbg         Waiblingen/Nitbg       Waiblingen/Nitbg         News Bahnhofstr 44       Beue Bahnhofstr 44         265.       SKIDEL, Anton, F M       265a.         266.       HERNAMES, Nax, Ing       265a.         266.       HIETHHAMMES, Nax, Ing       265a.         266.       Scheubachel 2       Matenhausen An Grabenbach 2         266.       HIETHHAMES, Nax, Ing       265a.         266.       Scheubachel 2       Sablenbu   |              | COT!                                  | A Deat Trates             |                 | Ernschverd/Witzenhausen                |
| Darmastadt       262a. KIENK, Vilfried, Im.         262. PALM, Erast, Dip Img       262a. KIENK, Vilfried, Im.         Lins/Donaw       Berlin-Friedanaw         Christian Coulinstr 22       Caeciliangarten 2         263. BETHNOLHN, August, F M       263a. FRANZ, Hans Verner,<br>Stadthagen/Nestf         263. BETHNOLHN, August, F M       263a. FRANZ, Hans Verner,<br>Stadthagen/Nestf         264. FERLICK, Rudolf, Ing       264a. HACTH, Rudolf, Dipl<br>c/o Fri Lehnig         264. FERLICK, Rudolf, Ing       264a. HACTH, Rudolf, Dipl<br>c/o Fri Lehnig         Waiblingen/Witbg       Waiblingen/Witbg         Beue Bahnhofstr 44       Beue Bahnhofstr 44         265. SEHDEL, Anton, F M       265a. KEESHLER, Alfred, F         265. SEHDEL, Anton, F M       265a. KEESHLER, Alfred, F         265. SEHDEL, Anton, F M       265a. KEESHLER, Alfred, F         266. HIETHEANDES, Max, Ing       265a. SCHEUNEMAIN, Max, I         266. KIETHEANDES, Max, Ing       265a. SCHEUNEMAIN, Max, I         266. KIETHEANDES, Max, Ing       265a. SCHEUNEMAIN, Max, I         267. SIEDOTENEOTH, Kurt, F M       267a. EDMAEL, Max, F M         267. SIEDOTENEOTH, Kurt, F M       267a. EDMAEL, Max, F M         267. SIEDOTENEOTH, Kurt, F M       267a. EDMAEL, Max, F M         267. SIEDOTENEOTH, Kurt, F M       267a. EDMAEL, Max, F M         Grafenveil   |              |                                       |                           |                 |  |
| 262. PALM, Erast, Dip Ing       262a. HINH, Wilfried, In,<br>Berlin-Friedenau         Lins/Donau       Berlin-Friedenau         Christian Coulinstr 22       Caeciliangarten 2         263. ERIMINAN, August, F M       263a. FRAME, Hans Vermer,<br>Ahlen/Westf         263. ERIMINAN, August, F M       263a. FRAME, Hans Vermer,<br>Stadthagen/Westf         264. FERLICE, Rudolf, Ing       264a. HATH, Fedolf, Dipl<br>c/o Fri Lehnig         264. FERLICE, Rudolf, Ing       264a. HATH, Fedolf, Dipl<br>c/o Fri Lehnig         265. SERIMEL, Anton, F M       265a. HEBSUER, Alfred, F         265. SERIMEL, Anton, F M       265a. HEBSUER, Alfred, F         266. KIRIMEL, Anton, F M       265a. HEBSUER, Alfred, F         266. KIRIMEL, Max, Ing       266a. SCHEUNENGAN, Max, J         266. KIRIMEANNES, Max, Ing       266a. SCHEUNENGAN, Max, J         267. SIKBIOTERROTH, Kurt, F M       267a. EIMMAH, Max, F M         267. SIKBIOTERROTH, Kurt, F M       267a. EIMMAH, Max, F M         267. SIKBIOTERROTH, Kurt, F M       267a. EIMMAH, Max, F M         267. SIKBIOTERROTH, Kurt, F M       267a. EIMMAH, Max, F M         267. SIKBIOTERROTH, Kurt, F M       267a. EIMMAH, Max, F M         39       39       39   |              |                                       |                           |                 | '                                      |
| Linz/Donau       Berlin-Friedenau         Linz/Donau       Caeciliangarten 2         Christian Coulinstr 22       Caeciliangarten 2         263. BRINKMANN, August, F M       263a. FRANZ, Hanz Verner,<br>Stadthagen/Westf         Genmericherstr 49       Obernstr 43 bei B         264. PERLICK, Rudolf, Ing       264a. HACKH, Rudolf, Dipl         c/o Fri Lehnig       Vaiblingen/Witbg         Waiblingen/Witbg       Waiblingen/Witbg         Neue Bahnhofstr 44       Berk Bei Searburg         265. SERINEL, Anton, F M       265a. KERSHLER, Alfred, F         265. SERINEL, Anton, F M       265a. KERSHLER, Alfred, F         266. KIRINELANDES, Max, Ing       266a. SCHEUNEMAIN, Max, J         Stickenbuettel       Ottostr 2         bei Curhaven       Ottostr 2         267. SIKEDIOTERROTE, Kurt, F M       267a. ZIMMAHL, Max, F M         Grafenveiler/Pfalz       Bechwege, Ottostr  |              |                                       |                           |                 |  |
| Lins/Donaw<br>Christian Coulinstr 22<br>263. BRINTMANN, August, F M<br>Ahlen/Mestf<br>Genmericherstr 49<br>264. FERLICK, Rudolf, Ing<br>c/o Frl Lehnig<br>Walblingen/Witbg<br>Heve Bahnhofstr 44<br>265. SEIDEL, Anton, F M<br>265. SEIDEL, Anton, F M<br>266. SCHEURENAMNES, Max, Ing<br>266. SCHEURENAMN, Max, I<br>266. SCHEURENAMN, Max, I<br>266. SCHEURENAMN, Max, I<br>267. SIEBIOTEREOTE, Kurt, F M<br>267. SIEBIOTEREOTER, Kurt, F M<br>267. SIEBIOTEREOTEREOTER, Kurt, F M<br>267. SIEBIOTEREOTEREOTEREOTEREOTEREOTEREOTEREOTER   |              | 262.                                  | PATH Frast, Dio Ing       | 2624.           | KIRNK, Wilfried, Ing                   |
| Christian Coulinstr 22 Casciliangarten 2 Cascili  |              | EAC.                                  |                           | `···            | Berlin-Friedenak                       |
| 263. BRININGARY, August, F M       263a. FRANZ, Hans Werner,<br>Stadthagen/Westf         Genmericherstr 49       Stadthagen/Westf         264. FERLICE, Budolf, Ing       264a. HACHE, Rudolf, Bipl         264. FERLICE, Budolf, Ing       264a. HACHE, Rudolf, Bipl         265. SELIDEL, Anton, F M       265a. HESSLER, Alfred, F         265. SELIDEL, Anton, F M       265a. HESSLER, Alfred, F         266. HIETHEAMMES, Max, Ing       265a. SCHEUNENAIN, Max, I         266. HIETHEAMMES, Max, Ing       266a. SCHEUNENAIN, Max, I         267. SIEBIOTEROTH, Kurt, F M       267a. ZIMMAHL, Max, F M         267. SIEBIOTERROTH, Kurt, F M       267a. ZIMMAHL, Max, F M         267. SIEBIOTERROTH, Kurt, F M       267a. ZIMMAHL, Max, F M         267. SIEBIOTERROTH, Kurt, F M       267a. ZIMMAHL, Max, F M         267. SIEBIOTERROTH, Kurt, F M       267a. ZIMMAHL, Max, F M  |              |                                       | Muntattan Call theth 22   |                 | Casciliangarten 26                     |
| Ahlen/Westf       Stadthagen/Westf         Gemmericherstr 49       Obernstr 43 bei E         264.       PERLICE, Rudolf, Ing       264a.         264.       PERLICE, Rudolf, Ing       264a.         265.       SERIDEL, Anton, F M       265a.         266.       SERIDEL, Anton, F M       265a.         Serk bei Saarburg       Witzenhausen         Buss/Saar       Witzenhausen         Am Grabenbach 2       Schenbusttel         bei Cuxhaven       Schenbustel         bei Cuxhaven       Ottostr 2         Sahlenburger Chaussee 19       267a.         267.       SIEBIOTEREOTH, Kurt, F M         267.       SIEBIOTEREOTH, Furt, F M         267a.       SIEDAHL; Max, T M         Buderbof 39  |              |                                       | CALISCICA CONTRACT SE     |                 |  |
| Ahlen/Westf       Stadthagen/Westf         Gemmericherstr 49       Obernstr 43 bei B         264.       PKRLICK, Rudolf, Ing       264a.         264.       PKRLICK, Rudolf, Ing       c/o Fri Lehnig         265.       SKIDINGEN/Witbg       Waiblingen/Witbg         Waiblingen/Witbg       Waiblingen/Witbg       Waiblingen/Witbg         Weib Bahnhofstr 44       Beue Bahnhofstr 44       Beue Bahnhofstr 44         265.       SKIDKL, Anton, F M       265a.       KIESSILER, Alfred, F         265.       SKIDKL, Anton, F M       265a.       C/o Tuebbecke         Buss/Saar       witzenhausen       An Grabenbach 2         266.       KIETHEANDES, Max, Ing       266a.       SCHEUNKMAN, Max, I         Stickenbuettel       Bschwege       Ottostr 2         bei Cuxhaven       Ottostr 2       Sahlenburger Chaussee 19         267.       SIEBIOTEREOTH, Kurt, F M       267a.       ZIMMAHL; Max, T M         Grafenveiler/Pfalz       Bschwege, Ottost:       Bschwege, Ottost:  |              | 062                                   | BRITINIW, Avenut, P.M.    | 2634.           | FRANZ, Hans Verner, Ing                |
| Genmericherstr 49       Obernstr 43 bei B         264.       FRELICK, Rudolf, Ing       264a.       EACKH, Rudolf, Dipl         c/o Frl Lehnig       vaiblingen/Witbg       Waiblingen/Witbg         Waiblingen/Witbg       Waiblingen/Witbg       Waiblingen/Witbg         Weue Bahnhofstr 44       Waiblingen/Witbg       Waiblingen/Witbg         265.       SERIDEL, Anton, F M       265a.       KERSULER, Alfred, F         265.       SERIDEL, Anton, F M       265a.       C/o Tuebbecke         Buss/Saar       An Grabenbach 2         266.       KLEINHARNES, Max, Ing       266a.       SCHEUNEMANN, Max, I         Stickenbuettel       Bachwege       Ottostr 2         bei Curhaven       Ottostr 2       Sahlenburger Chaussee 19         267.       SIEBIOTEREOTH, Kurt, F M       267a.       ZIMMAHL, Max, F M         Grafenveiler/Pfalz       Buderhof 39       Stickwege, Ottost  |              |                                       |                           |                 | gtadthagen/Westi                       |
| 264.       PKRLICK, Rudolf, Ing       264a.       HACKH, Rudolf, Bipl         c/o Frl Lehnig       c/o Frl Lehnig       vaiblingen/Witbg         Waiblingen/Witbg       Waiblingen/Witbg       Waiblingen/Witbg         Weiblingen/Witbg       Waiblingen/Witbg       Waiblingen/Witbg         265.       SKIDKL, Anton, 7 M       265a.       KIESSILER, Alfred, F         265.       Serk bei Saarburg       c/o Tuebbecke         Buss/Saar       Witzenhausen         Am Grabenbach 2       266a.       SCHEUNEMAIN, Max, I         Stickenbuettel       Eschwege         bei Cuxhaven       Ottostr 2         Sahlenburger Chaussee 19       267a.       ZIMMAHL, Max, F M         267.       SIKBIC/FERBOTH, Kurt, F M       267a.       ZIMMAHL, Max, F M         Buderhof 39       Stickenbertier/Pfalz       Stickwege, Ottosta  |              |                                       | Genericherstr 49          |                 | Obernstr 43 bei Badtmoeller            |
| Waiblingen/Witbg       Waiblingen/Witbg         Weiblingen/Witbg       Waiblingen/Witbg         Weiblingen/Witbg       Weiblingen/Witbg         Serk bei Saarburg       C/o Tuebbecke         Buss/Saar       Witzenhausen         Buss/Saar       Am Grabenbach 2         2666.       KLRIMHAMMES, Max, Ing       266a.         Stickenbuettel       Beschwege         bei Cuxhaven       Ottostr 2         Bahlenburger Chaussee 19       267a.       ZIMMAHL, Max, T M         267.       SIKBIGTERROTH, Kurt, T M       267a.       ZIMMAHL, Max, T M         Grafenveiler/Pfalz       Bechwege, Ottostz         Buderhof 39       Stickenbergen, Ottostz   |              | •                                     | Appresi yenes are a       |                 |  |
| Vaiblingen/Witbg       Waiblingen/Witbg         Waiblingen/Witbg       Waiblingen/Witbg         Weue Bahnhofstr 44       Eeue Bahnhofstr 44         265. SERIDEL, Anton, F M       265a. KEPSHER, Alfred, F         Serk bei Saarburg       C/o Tuebbecke         Buss/Saar       Witzenhausen         Am Grabenbach 2       Am Grabenbach 2         266. KLETHRAMMES, Max, Ing       266a. SCHEUNEMAIN, Max, I         Stickenbuettel       Bachvege         bei Cuxhaven       Ottostr 2         Sahlenburger Chaussee 19       267a. ZIMMAHL, Max, F M         267. SIEBIGTERROTH, Kurt, F M       267a. ZIMMAHL, Max, F M         Grafenveiler/Pfalz       Bechvege, Ottostu         Buderhof 39       Sticsturge, Ottostu  | - <b>-</b> - | 264.                                  | PERLICK. Rudolf. Ing      |                 | HACKH, Rudolf, Dipl Ing                |
| Neue Bahnhofstr 44       Neue Bahnhofstr 44         265. SERIDEL, Anton, 7 M       265a. KESSLER, Alfred, F         Serk bei Saarburg       c/o Tuebbecke         Buss/Saar       Witzenhausen         Buss/Saar       Am Grabenbach 2         266. KLEINHAMMES, Max, Ing       266a. SCHEUNEMAIN, Max, I         Stickenbuettel       Isschwege         bei Cuxhaven       Ottostr 2         Sahlenburger Chaussee 19       267a. ZIMMAHL, Max, F M         267. SIKBIGTERROTH, Kurt, F M       267a. ZIMMAHL, Max, F M         Grafenveiler/Pfalz       Ischwege, Ottostz         Buderhof 39       Ischwege, Ottostz   |              |                                       | c/o Trl Lehnig            |                 | c/o Frl Lehnig                         |
| Neue Bahnhofstr 44       Neue Bahnhofstr 44         265. SERIDEL, Anton, 7 M       265a. KESSLER, Alfred, F         Serk bei Saarburg       c/o Tuebbecke         Buss/Saar       Witzenhausen         Am Grabenbach 2         266. KLEINHANNES, Max, Ing       266a. SCHEUNEMAIN, Max, I         Stickenbuettel       Jsschwege         bei Cuxhaven       Ottostr 2         Sahlenburger Chaussee 19       267a. ZIMMAHL, Max, F M         267. SIKBIGTERROTH, Kurt, F M       267a. ZIMMAHL, Max, F M         Grafenveiler/Pfalz       Jsschwege, Ottostz         Buderhof 39  |              |                                       | Waihlingen Mithe          | <u></u>         | Waiblingen/Wttbg                       |
| 265. SERIDEL, Anton, 7 M       265a. KESSLER, Alfred, F         Serk bei Saarburg       c/o Tuebbecke         Buss/Saar       Witzenhausen         Am Grabenbach 2         266. KLEINHANNES, Max, Ing       266a. SCHEUNEMAIN, Max, I         Stickenbuettel       Jschwege         bei Cuxhaven       Ottostr 2         Sahlenburger Chaussee 19       267a. ZIMDAHL, Max, F M         267. SIKBIGTERROTH, Kurt, F M       267a. ZIMDAHL, Max, F M         Grafenveiler/Pfalz       Jschwege, Ottostz         Buderhof 39       J  |              |                                       | Tana Rahnhofstr 44        |                 | Jeue Bahnhoistr 44                     |
| Serk bei Saarburg<br>Buss/Saar<br>266. KLRINHANNES, Max, Ing<br>Stickenbuettel<br>bei Cuxhaven<br>Sahlenburger Chaussee 19<br>267. SIKBIOTERROTH, Kurt, F M<br>Grafenveiler/Pfalz<br>Buderhof 39  |              |                                       | -                         |                 |  |
| Serk bei Saarburg<br>Buss/Saar<br>266. KLRINHANNES, Max, Ing<br>Stickenbustel<br>bei Cuxhaven<br>Sahlenburger Chaussee 19<br>267. SIKBIOTERROTH, Kurt, F M<br>Grafenveiler/Pialz<br>Buderhof 39   |              | 265                                   | SETERL. Anton. T.X        | 2658            | KESSIER, Alfred, F M                   |
| 266.       KLEINHAMMES, Max, Ing       266a.       SCHEUNEMAIN, Max, I         Stickenbuettel       Ischvege         bei Cuxhavan       Ottostr 2         Sahlenburger Chaussee 19       267a.       ZIMDAHL, Max, F M         267.       SIKBIGTEREOTH, Kurt, F M       267a.       ZIMDAHL, Max, F M         Grafenveiler/Pfalz       Ischvege, Ottost:         Buderhof 39       Ischvege, Ottost:   |              | e                                     | Sert bet Searburg         |                 | c/o Tuebbecke                          |
| 266.       KLEINHAMMES, Max, Ing       266a.       SCHEUNEMAIN, Max, I         Stickenbuettel       Ischvege         bei Cuxhavan       Ottostr 2         Sahlenburger Chaussee 19       267a.       ZIMDAHL, Max, F M         267.       SIKBIGTEREOTH, Kurt, F M       267a.       ZIMDAHL, Max, F M         Grafenveiler/Pfalz       Ischvege, Ottost:         Buderhof 39       Ischvege, Ottost:   |              |                                       | Duas /Caaw                |                 | Witzenhausen                           |
| 266.       KLEINHAMMES, Max, Ing       266a.       SCHEUNEMAIN, Max, I         Stickenbuettel       Ischvege         bei Cuxhavan       Ottostr 2         Sahlenburger Chaussee 19       267a.       ZIMDAHL, Max, F M         267.       SIKBIGTEREOTH, Kurt, F M       267a.       ZIMDAHL, Max, F M         Grafenveiler/Pfalz       Ischvege, Ottost:         Buderhof 39       Ischvege, Ottost:   |              |                                       | BEER/SCAL                 |                 | Am Grabenbach 2                        |
| Stickenbustel     Stickenbustel       bei Cuxhaven     Ottostr 2       Sahlenburger Chaussee 19     Ottostr 2       267. SIKBIGTERROTH, Kurt, F M     267a. EIMDAHL, Max, F M       Grafenveiler/Pfalz     Eschwege, Ottostz       Buderhof 39     Statemark  |              |                                       |                           |                 |  |
| Stickenbustel     Stickenbustel       bei Cuxhaven     Ottostr 2       Sahlenburger Chaussee 19     Ottostr 2       267. SIKBIGTERROTH, Kurt, F M     267a. EIMDAHL, Max, F M       Grafenveiler/Pfalz     Eschwege, Ottostz       Buderhof 39     Statemark  |              | ~~~                                   | VT PTWANES. Nov. Tog      | 2664            | BCHEUNERAIN, MAX, Ing                  |
| bei Cuxhaven Ottostr 2<br>Sahlenburger Chaussee 19<br>267. SIKBIGTERROTH, Kurt, F X 267a. ZIMDARL, Max, F X<br>Grafenveiler/Pfalz Eschwege, Ottost:<br>Buderhof 39  |              | 200.                                  | Autorany materi           | · · · · · · · · | Zschvege                               |
| Sahlenburger_Chaussee 19<br>267. SIKBIGTERROTH, Kurt, F M 267a. ZIMDAHL, Max, F M<br>Grafenveiler/Pfalz<br>Buderhof 39  |              |                                       | Pittrennaria              |                 | Ottostr 2                              |
| 267. SIKBIGTERROTH, Kurt, F M 267a. ZIMDAHL, Max, F M<br>Grafenveiler/Pfalz Eschwege, Ottost:<br>Buderhof 39  |              |                                       | Sablanhunger Shanasaa 10  |                 |  |
| Restroi 22  |              |                                       |                           |                 | · ·                                    |
| Restroi 22  |              | 2                                     | OTENTOTENENTE THEL. P.M.  | 267a            | · ZIDDAHL, MX, F X                     |
| Restroi 22  |              | <b>20</b> [                           | DIDDIVIDARVILI ANI VI F A |                 | Eschwege, Ottostr 8                    |
| Restroi 22  |              |                                       |                           |                 |  |
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|          | c/o Einwahner-Meldeant                 | BECDEUF 124   |
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|          | Approved for Release:                  | 2022/06/22 C00010786  |
| 257.     |  | Landshut  |
|          | c/o Brinkmann<br>Ahlen/Westf           |   |
|          | Gennericherstr 49                      | <ul> <li>A second sec<br/>second second sec</li></ul> |
|          |  | APO, SPATTER BEED BY THA  |
| 258.     | THIRY, Johannes, Dipl Ing              | 258a. IRUENEER, Dr Ing<br>C Landshut oder   |
|          | Velzheim Mr Waiblingen/Wttbg           | c/o Brustzel, Musnchen-Graefelfin   |
|          | Bahnhofstr 459                         | Aribostr 42   |
|          |  | ·   |
| 259.     | BOETTCHER, Kurt, F M                   | 259a. GRUKHOW, Heinrich, F M  |
|          | Landshut                               | Landshut  |
|          | DATE D X                               | 260a. WURBS, Herbert, F N   |
| 200.     | C/o Heinz Guentschel                   | c/o Frl Lehnig  |
|          | Jens/Saale                             | Waiblingen/Wttbg  |
|          | Katharinenstr 23                       | Bahahofstr 44   |
|          |  | -261a. SONDER, Rudolf, Ing  |
| 261.     | MURILER, Jakob, F M                    | Ernschverd/Witzenhausen   |
|          | c/o Prof Nuster                        |   |
|          | Techn Hochschule<br>Dermstadt          | · · · · · · · · · · · · · · · · · · ·   |
| _        |  | ale want tribeled The   |
| 262.     | PALM, Erast, Dip Ing                   | 262a. KIRK, Wilfried, Ing<br>Berlin-Friedenak   |
|          | Lins/Donau                             | Caeciliengarten 26  |
|          | Christian Coulinstr 22                 | ,   |
| 262      | BRINKARN, August, F X                  | 263s. FRAMZ, Hanz Verner, Ing   |
| <i>ω</i> | Ablen/Vestf                            | Rtadthagen/Vesti  |
| •        | Genmericherstr 49                      | Obernstr 43 bei Badtmoeller   |
| _ 41     |  | 264a. HACKE, Rudolf, Bipl Ing   |
| 264.     | PERLICK, Rudolf, Ing                   | c/o Frl Lebnig  |
|          | c/o Frl Lehnig                         | Weiblingen/Wttbg  |
|          | Waiblingen/Witbg<br>Neue Bahnbofstr 44 | Ieue Bahnhofstr 44  |
|          | NAMA DATITION DAT IL                   | ·   |
| 265.     | SEIDEL, Anton, T.M.                    | 265e. KESSLER, Alfred, F N  |
|          | Serk bei Bearburg                      | c/o Tuebbecke   |
|          | Buss/Saar                              | Witzenhausen<br>Am Grabenbach 2   |
|          |  | Am At the set way a   |
| 266.     | KLEINHARDES, Nax, Ing                  | 266a. SCHEUNEMANN, MAX, Ing   |
| 2001     | Stickenbuettel                         | Bechvege  |
|          | bei Cuxbavan                           | Ottostr 2   |
|          | Sahlenburger Chaussee 19               |   |
|          |  |   |
| 267.     | SIEBIOTERROTH, Kurt, F N               | 267a. ZIMDAHL; Max, F M<br>Eschwege, Ottostr 8  |
|          | Grafenveiler/Pfalz                     | Packadel Athan A  |
|          | Buderbol 39                            |   |
| ~        | BUETTGEN, Erhard, F M                  | 268a. SCEAUFUSS, Dipl Ing   |
| 268.     | c/o Zeller                             | Berlin-Charlottenburg 9   |
|          | Grossauheim bei Hanau/Main             | Teidenburger Alles 35   |
|          |  | ACA TATETO PANERA P M   |
| 269.     |  | 269a. HOLZINIER, Eduard, F X<br>Landsbut  |
|          | c/o Linkohr                            | Aread V.P 24 V. V   |
|          | Stuttgart-Cannstatt                    |   |
|          | Wildungerstr 37                        |   |
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|   | 270.   | Landshut<br>J. BARTWICKI, Leonhard, F.M.<br>Berlin-Zaschborst<br>Berlin-Zaschborst<br>Berlin-Zaschborst<br>Berlin-Zaschborst<br>Ueber Hashhol, Berlin-Spandau<br>Gerzerbeissnveg Gi<br>2. PFLADDE, Willi, F.M.<br>Bolingen-Landwehr<br>Riberfelderstr 19 Oder 90<br>2. PFLADDE, Willi, F.M.<br>Belingen-Landwehr<br>Riberfelderstr 19 Oder 90<br>2. PFLADDE, Willi, F.M.<br>Berlin-Wilfwerst, Friedrich, J.<br>Berlin-Wilfwerst, J.<br>J. MUEDES, Relmet, Dipl Ing<br>Fraskfurt/Main<br>Berlin-Wilfwerst, J.<br>Gerbard, F.M.<br>C/O ErstStill, Gerbard, F.M.<br>C/O Linkbar<br>Fildungerstr 37<br>2. MILER, Otto, F.M.<br>C/O Linkbar<br>Berlingen-Landwehr<br>Bibtigger-Cannstatt<br>Fildungerstr 37<br>2. MILER, Otto, F.M.<br>C/O Linkbar<br>Fildungerstr 37<br>2. MILER, Otto, F.M.<br>Berlingen/Mitbe<br>Bibtigger-Cannstatt<br>Fildungerstr 37<br>2. MILER, Otto, F.M.<br>C/O ErstBill, Gerbard, F.M.<br>Desselderr<br>Bachstr 154<br>2. REFNIT, Otto, F.M.<br>C/Ga. REFNICH, Gerbard, Ing<br>Fraschwerd/Witzenhausen<br>To MEESE, Wilhelm, F.M.<br>C/Ga. REFNICH, Gerbard, Ing<br>Fraschwerd/Witzenhausen<br>Negdeburg-ost<br>Michthofenstr 10<br>2. MEESE, Wilhelm, F.M.<br>C/Ga. BISTAURS, Adolf, F.M.<br>C/Ga. BISTAURS, Kall, F.M.<br>C/Ga. BISTAURS, Frein, Ing<br>Fraschwerd/Witzenhausen<br>Traschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Bistrassen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Bistrassen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenhausen<br>Fraschwerd/Witzenha | c/o Linkohr  |   |
|   | 272. I<br>272. I<br>273. I<br>273. I<br>274. I<br>275.<br>276.<br>277.<br>278.<br>279.<br>280.<br>281.<br>282. | Landshut   |  | Stuttgart-Cannstatt   |
|   |  |  |  | - normant Cottoried Dr Phil   |
| S.S. , and and state at the second state of t | 271.   | Berlin-Haselborst  | 2/18.  | c/o Brast Laitzverke  |
|   |  | ueber Hashnel, Berlin-Spandau  | an an the left of the  | <ul> <li>270a. HADMANN, F M<br/>C/O Linkohr<br/>Stuttgart-Cannstatt<br/>Wildungerstr 37</li> <li>271a. ROEMMERAL, Cottiried, Dr Fail<br/>C/O Brait Laitzverke<br/>Wetzlar/Lahn</li> <li>272a. FUEE, Wolfgang, Diplet<br/>C/O Branch Laitzverke<br/>Wetzlar/Lahn</li> <li>273a. EEDMANN-JESHITZEE, Friedrich, Dr Lug<br/>Berlin-Wilnersdorf<br/>Burgunderstr 3</li> <li>274a. MILEVERI, Cerhard, F M<br/>C/O Fri Lehnig<br/>Watblingen/Witbg<br/>Wene Bahaboft 44</li> <li>275a. DOEMACF, Ervin, F M<br/>Eschwege, Ottostr 6</li> <li>276a. HETRICH, Gerhard, Ing<br/>Landshut</li> <li>277a. SEMAINER, Ervin, J M<br/>Scienchen-Heusubing<br/>Masuchen-Heusubing<br/>Brunhamstr 25</li> <li>276a. HELEMER, Archibald, F M<br/>Maschen-Heusubing<br/>Brunhamstr 25</li> <li>280a. MENERLING, Archibald, F M<br/>Kachwege, Rittergut Schwebda</li> <li>281a. LIPPMANN, Hans, F M<br/>C/O Tuebbecke<br/>Witzenhausen<br/>Am Grabach 2</li> <li>282a. HEESE, Alfred, F M<br/>Eschwege, Ottostr 6</li> </ul> |
|   |  | - 20 -<br>70. SARDYCES, Willi, Ing<br>Landabut<br>11. BASTRICKI, Leonhard, F M<br>Berlin-Hasehkorst<br>Burscheiderveg/Daumstr oder<br>ueber Sachol, Strin-Spandau<br>Gerscheiderveg/Daumstr oder<br>Ustrin-Filderstr 13 oder 30<br>271. Willis, F N<br>Selingen-Landvehr<br>Stategart-Gamstatt<br>Untilles, Otto, F N<br>C/O Stored<br>Stategart-Gamstatt<br>Willingen/Hitbs<br>Stategart-Gamstatt<br>Frachter 14<br>Frachter 14<br>275. STRIENE, Adolf, F N<br>276. Stringen/Statest<br>277. BUDDEST, Fruh, F M<br>276. STRIENE, Adolf, F M<br>276. STRIENE, Arther Stringen<br>279. SOCHMEN, Dr Ing<br>279. SOCHMEN, Dr Ing<br>279. SOCHMEN, Dr Ing<br>279. SOCHMEN, Dr Ing<br>270. STRIENE, Max, F M<br>270. STRIENE, Max, F M<br>270. STRIENE, Max, F M<br>270. STRIENE, Max, F M<br>271. STRIENE, Max, F M<br>272. STRIENE, Max, F M<br>273. STRIENE, Alf, F M<br>274. STRIENE, Max, F M<br>275. STRIENE, Max, F M<br>275. STRIENE, Max, F M<br>276. STRIENE, Max, S M<br>276. STRIENE, Max, F M<br>276. STRIENE, Max, F M<br>276. STRIENE, A             |  |   |
|   | 272.   | Selingen-Landwehr  | 2/28.  | c/o Storch  |
|   |  | 70. SAMENVOSS, Willi, Ing       270a. MATMANT, F M         1. andahut       270a. MATMANT, F M         2. Constant       Stuttgart-Cannatatt         Wildungerstr 37         71. DARTWICKI, Leonhard, F M       271a. ROCKFTRAL, Cottified, Dr Fail         Barlin-Hassiborst       Striker-Cannatatt         Burscheiderveg/Daumstr oder       Weiglar/Lahn         Burscheiderveg/Daumstr oder       Weiglar/Lahn         Berlin-Spandau       c/o Storch         Gerserbeiserveg 61       272a. FUER, Wolfgang, Mipitar         72. PFLAURE, Willi, F M       272a. FUER, Wolfgang, Mipitar         Solingen-Landwebr       c/o Storch         Elberfelderstr 19 oder 90       Landähut         73. MEBUS, Kelmut, Bipl Ing       273a. EXDMANT-JESUTIZER, Friedrich, Dr Ing         Fraakfurt/Main       Bargunderstr 3         Zergelin Ajlee 62       Bargunderstr 3         274. WINTER, Otto, F M       274a. MILKMENI, Cerhard, F M         c/o Linkohr       Veiblage/Mitbs         Bacherf       275a. DOEFMOF, Ervin, F M         Zers. STRIEME, Adolf, F M       275a. EBTRICH, Gerhard, Ing         Frascheref/Witzenhausen       Landshut         Frascheref/Mitzenhausen       Landshut         Frascheref/Mitzenhausen       Estinhofs s.d/Murr   |  |   |
|   | 273.   | MORBUS, Melmat, Dipl_Ing   | 2734.  | ERDMANN-JESNITZER, Friedrich, Dr Ing<br>Berlin-Wilmersdorf  |
|   |  |  |  | Burgunderstr 3  |
|   | 274.   | WINKLER, Otto, F M<br>c/o Linkohr  | 2744.  | c/o Trl Lehnig  |
|   |  | Stuttgart-Cannstatt  |  | Waiblingen/Wttbg<br>Wane Bahnhofstr 44  |
|   | <b>.</b>   | Wildungerstr_37  |  |   |
|   | 275.   | Duesseldorf  | 2754   | DORELOF, Ervin, F M<br>Eschwege, Ottostr 6  |
|   | 276.   | REEKLY, Otto, F-N  | - 20 -<br>1, Ing 270a. MUMANN, 7 M<br>- (o Linkohr<br>Stuttger-Committed, Dr Fail<br>- (o Krait Leitrverie<br>versin-Spandau<br>ves 61<br>, 7 M<br>272a. FUE, Wolfgang, Dipl'<br>(o Brarch<br>, PM<br>272a. FUE, Wolfgang, Dipl'<br>(o Brarch<br>, PM<br>272a. FUE, Wolfgang, Dipl'<br>(o Brarch<br>), Perlin-Spandau<br>ves 62<br>, 7 M<br>273a. EXDMANN-RESUITZE, Friedrich, Dr Ing<br>Bargingerst 3<br>(F M<br>(o Fri Lehnig<br>Bargingerst 3<br>(F M<br>(o Fri Lehnig<br>(o   |   |
|   |  | Braschwerd/Witzenhausen<br>bei Karl Ebel   |  |   |
|   | 277.   | BRUDDERT, Paul, F N  | 2774   | . SEM. DESER, Ervin, Ing  |
|   |  | Magdeburg-Ost  | · · · · · · · · · · · · · · ·  | Bieinneis a/d/Murr<br>Ueber Marbach   |
|   | 278.   | BARSE, Vilbelm, 7 X  | 278  | HOLENARD, F N   |
|   | E101   | Oschersleben/Bode  |  | Landsbut  |
|   |  | _  |  | GARGAR Atta The The   |
| ;<br>;  | . 279.   | HOSEMANN, Dr Ing   | 2798   | Maanchen-Teuaubing  |
| м<br>А.   |  |  |  |   |
| 2<br>2<br>1<br>2<br>1<br>2<br>1<br>4<br>4<br>4<br>3<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4  | 280.   | GOLLHOW, Dieter, Dr Ing  | 200  | ESCHWEGE, Rittergut Schwebda  |
|   | 281.   | ·  | 281  | LIPPMANN, Hans, F N   |
| 1 E   |  | Landshut   |  |   |
|   |  |  |  | Am Grabenbach 2   |
| •   | 282  | FERCH, Paul, F M   |  | a. HEFSE, Alfred, F X<br>Rechunge, Ottoatr 6  |
|   |  | Witzenhausen   |  |   |
|   | 080  |  | <pre>11, Ing 270s. HADMATH, F M<br/>c/o Linkohr<br/>Stutigerst.Cannatatt<br/>Wildungerstr 37<br/>Sonhard, F M<br/>271a. ROEMFINL, Outbried, Dr Fail<br/>c/o Braski Laitreerie<br/>weg/Daumitr odar<br/>weg/Daumitr odar<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weining<br/>weini</pre> |   |
|   | ອງ   | Rachardge  |  | Muanchen 25<br>Oberlaenderstr 20  |
|   |  | Luavigetr - Approved for Relea   | <u>se: 2</u> 022/06/2  | 22 C00010786  |

|              | Burscheiderveg/Daumstr oder<br>ueber Hashnel, Berland for Boloos |                                       | 00010786                                  |
|--------------|--|---------------------------------------|---|
|              | ueber Hachnel, Berla<br>Gernerbeinerveg 61                       |                                       |   |
|              |  | 212a. FUH                             | R, Wolfgang, Dipl                         |
| 2(2.         |  | C                                     | lo storch                                 |
|              | Selingen-Landvehr<br>Elberfelderstr 19 oder 90                   | L                                     | andahut                                   |
|              | RIDEFICIACIES I 29 Case /C                                       |                                       |   |
| 273.         | MUEBUS, Melmut, Dipl Ing   | 2734. KRD                             | MANN-JESHITZER, Friedrich, Dr Ing         |
| -13-         | Banah / Kala   | <b>_</b>                              | erlin-Wilmersdorf                         |
|              | Zeppelia Allee 62  |                                       | Jurgunderstr 3                            |
|              |  |                                       | WEST, Cerbard, F X                        |
| 274.         | WINKLER, Otto, F N   | 2(45, 81)                             | LEWERI, Gerhard, F X<br>c/o Fri Lehnig    |
|              | c/o Linkohr  | . 1                                   | Waiblingen/Wttbg                          |
|              | Stuttgart-Cannstatt  |                                       | Noue Bahabofstr 44                        |
|              | Wildungerstr 37  |                                       |   |
| <b>7</b> 75  | STRIEVE, Adolf, F.N  |                                       | ENEOF, Ervin, 7 K                         |
| £{7¢         | Duesseldorf  |                                       | Eschwege, Ottostr 6                       |
|              | Bachstr 154  |                                       |   |
|              | •  | -                                     |   |
| 276.         | RENKLY, Otto, F N  | - 276a. BE                            | MRICH, Gerhard, Ing                       |
| -104         | REEKLY, Otto, F M<br>Eraschwerd/Witzenhausen                     |                                       | Landshut                                  |
|              | bei Karl Ebel  |                                       |   |
|              |  |                                       |   |
| 277.         | BRUDGERT, Paul, F M  | 2774. 88                              | M.IRGER, Ervin, Ing<br>Steinheim a/d/Murr |
|              | Magdeburg-Ost  |                                       | ueber Marbach                             |
|              | Richthofenstr 10   |                                       | MC POL AND SOM                            |
|              |  | 072- T                                | LINARS, F. N.                             |
| 278.         | BARSE, Wilhelm, F M  |                                       | Landshut                                  |
|              | Oschersleben/Bode  | · · · · ·                             |   |
|              | Kirchstr 1   |                                       |   |
| <b>0</b> 710 |  | 2798. 80                              | CHORDE, Otto, Dr Ing                      |
| 217+         | HOSKMANN, Dr Ing<br>Technische Rochschule                        |                                       | Muenchen-Teuavbing                        |
|              | Stuttgart  |                                       | Brunhamstr 25                             |
|              | Darragera .  |                                       | •   |
| 280.         | GOLLHOW, Dieter, Dr Ing  |                                       | ETRERLING, Archibald, Y M                 |
| 5- <b></b>   | Landshut   |                                       | Eschwege, Rittergut Schwebds              |
|              | Carl Annual Course and an  | <b>*</b>                              |   |
| 201.         | GRUBER, Max, T.N   | 281a. L                               | IPPHANN, HANS, P N                        |
|              | Landshut   | 4                                     | c/o Tuebbecke                             |
|              |  |                                       | Witzenhausen                              |
|              |  |                                       | An Grabenbach 2                           |
|              |  |                                       |   |
| 282.         | FERCE, Paul, F M   | 202a. I                               | KESS, ALITER, FR                          |
|              | C/O TUEDDECKE  | · _ · _ · ·                           | Eschwege, Ottostr 6                       |
|              | Witzenhausen   |                                       |   |
|              | An Grabenbach 2  |                                       |   |
|              |  | <b>692-</b>                           | BIGL, Josef, F M                          |
| 283.         |  | 2058, 1                               | Manahan 05                                |
| -            | Eschröge   |                                       | Muenchen 25<br>Oberlaenderstr 20          |
|              | Ludvigstr 7  |                                       | - <b>Ardt #Batawy a "wg " p.A</b> "       |
|              | · · · · · · · · · · · · · · · · · · ·                            |                                       | BUCH, Y M                                 |
| 264.         |  | 2046. 1                               | c/o Linkohr                               |
|              | Landshut oder  | · · · · · · · · · · · · · · · · · · · | Stuttgart-Cannstatt                       |
|              | Saarbruecken<br>c/o Einvohaer-Meldeant                           |                                       | Wildungerstr 37                           |
|              | I manage Malante   |                                       | HATCHIGAT A A GI                          |

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|                     | ang na salatan -                                       | • 21 •   |
|                     | DUECE, Osvald, Ing                                     | 285a. CHRISTIANSKN, Leopold, Br Ing  |
| 207+                | Berlin-Zehlendorf                                      | Landshut oder<br>Koeditz bei Hof Mr 110  |
|                     | Thornstr 14  | Koeditz bei doi hi ind   |
| <b>^</b> &6         | GREDNER, Fritz, P X                                    | 286a. MORHRING, Hans, Ing  |
|                     | Frankfurt/Nain   | c/o Frau Anni Kroll<br>Bielefeld-Bothel  |
|                     | Thorvaldsenstr 47 bei Kaiser                           | Bieldiald-Bether   |
|                     | •  |  |
| 287.                | KNAUER, Otto, Ing                                      | 207a. REIFERT, Verner, Ing   |
|                     | Hanburg-Harburg  | Eschvege, Ottostr  |
|                     | Brehmstr 6   |  |
| 288                 | HIRSCHMANN, F M  | 268a. WEGHER, Redolf, F M  |
| 2001                | c/o Linkohr  | c/o Frl Lehnig   |
|                     | Stuttgart-Cannstatt                                    | Waiblingen, Witbg<br>Neue Babnhofstr 44  |
|                     | Wildungerstr 37  |  |
| 289.                | BARTBCEER, Y X   | 2892. ZIEGLER, Ervin, Ing  |
|                     | c/o Roland   | Schweinfurt/Main<br>Sonnenstr 20, III  |
|                     | Goettingen<br>Rotestr 37                               | · · ·  |
|                     |  |  |
| 290.                | EILDEBRAND, Siegfried, P M                             | 290a. REAL, Heinrich, F M<br>c/o Frl Lehnig                                      |
|                     | c/o Linkohr<br>Stuttgart-Cannstatt                     | Waiblingen, Wttbg<br>Neus Bahahofstr 44  |
|                     | Wildungerstr 37  | Jeus Bahahofstr 44   |
|                     |  | 291a. KONZAK, Erich, F M   |
| 291.                | VAQUE, F X<br>Berlin-Spandau                           | c/o Karl Brustzel  |
|                     | Gernersheimerweg 61                                    | Musichan-Graefelfing   |
|                     | ÷  | Aribostr 43  |
|                     | BEITVEILER, Nathies, F N                               | 292a. GROSSJUNG, Fritz, F X  |
|                     | Berk bei Saarburg oder                                 | c/o Frl Lehnig   |
|                     | Prss/Sear  | Waiblingen/Wttbg<br>Neue Bahnhofstr 44   |
|                     |  | Tens Destruction 44  |
| 293.                | BUSSIG, Karl, Dipl Ing                                 | 293s. HARDT, Heinz, Dr Ing   |
|                     | Landshut   | Dermstadt, Villenkolomie Waldfriede<br>oder c/o Prof Walther                     |
| •                   |  | Dernstedt, Fichtestr 32  |
| ер на <b>на</b><br> | -<br>-   | ·  |
| 294.                | SCHERZER, Prof Dr Ing                                  | 294a. ROBHONG, Dr Ing  |
|                     | Darmstadt .  | Landsbut oder<br>Valdbrunn 35, ueber Wuerzburg                                   |
|                     | Technische Kochschule                                  |  |
| 295                 | KAUMARN, Ernst, F X                                    | 295a. HEYRICH, Gerbard, F N  |
|                     | e/o Linkohr  | Lerdsbut   |
|                     | Stuttgart-Cannstatt                                    | ·  |
|                     | Wildungerstr 37  | · · · · · · · · · · · · · · · · · · ·  |
| 206                 | . LUTE, August, 7 X                                    | 2968. QUERENGARSSER, HUGO, Dr Lag  |
|                     | c/o Tuebbecke  | Dorf Guetingen   |
| i<br>ž              | Vitzenhausen oder                                      | 296a. QUERENGARSEER, Hugo, Dr 15g<br>Dorf Guetingen<br>bei Feuchtwangen, Haus 87 |
| 4<br>-<br>-         | Bischhausen bei Witzenhausen<br>oder Lauterbach/Ressen |  |
|                     | Goethestr 23   |  |
|                     |  | ANT. MINNET Marshin Man Tan  |
| 29                  | 7. LITH, Otto, Ing                                     | 297a. BARTH, Martin, Dipl Ing<br>ase: 2022/06/22 C00010786 usan bei Tullen       |
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| 26   | 7. 1          | KHAUER, Otto, Ing App<br>Earburg-Earburg<br>Brehmstr 6 | roved for Release: 2022/0  | 5/22 C00010786 <b>rr, Ing</b><br>Eschwege, Ottostr   |                   |
| مر   | 20            | TTREATINE Y M  | 2684-  | WEGHER, Rudolf, F M  |                   |
| 20   | ю.            | HIRSCHMANN, F M<br>c/o Liakobr                         |  | c/o Frl Lehnig   |                   |
|      |               | Stuttgart-Canastatt                                    |  | Waiblingen, Witbg  |                   |
|      |               | Wildungerstr 37  |  | Neue Bahnhofstr 44   |                   |
|      |               |  | 080a   | LIEGLER, Ervin, Ing  |                   |
| 20   | 9.            | BARTSCEER, F N   | 20741  | Schweinfurt/Main   | . ••              |
|      | ÷             | c/o Roland<br>Goettingen                               |  | Sonnenstr 20, III  |                   |
|      |               | Rotestr 37   |  | • •  |                   |
| -    |               |  |  | REGEL, Heinrich, F M   |                   |
| - 25 | ю,            | ETLDEBRAND, Siegfried, F.)                             |  | c/o Frl Lehnig   |                   |
|      |               | c/o Linkohr<br>— Stuttgart-Cannstatt                   |  | Waiblingen, Wittbg   |                   |
|      |               | Wildungerstr 37  | · · · ·  | Teus Bahahofstr 44   |                   |
|      |               | "Mangaret DI   |  |  |                   |
| ~    | ກ.            | VAQUE, F X   | 2914.  | KONZAN, Brich, F M   |                   |
|      | /~ •          | Berlin-Spandau   |  | c/o Karl Brustzel  |                   |
|      |               | Germersheimerveg 61                                    |  | Wenchen-Graefelfing  |                   |
|      |               | - · · · ·  |  | Aribostr 43  |                   |
| بم   | ~~            |  | 2028.  | GROBSJUNG, Fritz, P X  |                   |
| Z,   | 16.           | BEITVEILER, Mathies, F N<br>Sark bei Saarburg oder     |  | c/o Frl Lehnig   |                   |
|      |               |  |  | Waiblingen/Witbg   | 1.11.111          |
|      |               | Puss/Sear  |  | Teus Bahnhofstr 44   |                   |
|      |               | :  |  |  |                   |
| 2    | 93.           | BUSSIG, Karl, Dipl Ing                                 | 2934.  | HARDT, Heinz, Dr Ing   | <i>.</i>          |
|      |               | Landshut   |  | Bermstadt, Villenkolosie Haldifle  | ae                |
|      |               |  |  | oder c/o Prof Velther  |                   |
| -    |               |  |  | Dermstedt, Pichtestr 32  |                   |
|      | o):           | SCHERTER, Prof Dr Ing                                  | 2942.  | ROBHUNG, Dr Ing  |                   |
| 4    | <b>3</b> 44   | Barnstadt  |  | Landsbut oder  |                   |
|      |               | Technische Hochschule                                  | ······································   | Waldbrunn 35, ueber Wuerzburg  |                   |
|      |               |  |  | HEYRICE, Gerbard, F M  |                   |
| 2    | 95.           | MAURANN, Ernst; F M                                    | C773.  | Landshut   |                   |
|      |               | e/o Linkohr  |  |  |                   |
|      |               | Stuttgart-Canastatt                                    |  | ·····  |                   |
|      |               | Wildungerstr 37  | and a second | and the second |                   |
| _    |               | Trans August 15-14                                     |  | QUERENJAESSER, Rugo, Dr Ing  |                   |
| 2    | 5 <b>/0</b> • | LUIZ, August, F N                                      |  | Dorf Guetingen   |                   |
|      |               | c/o Tuebbecke  | in an an an ann an ann an an an an an an   | bei Feuchtwangen, Haus 87  |                   |
|      |               | Witzenhausen oder<br>Bischhausen bei Witzen!           |  |  |                   |
|      |               |  |  |  |                   |
|      |               | oder Lauterbach/Hessen<br>Goethestr 23                 |  |  |                   |
|      |               | Goergeser \$2  |  |  |                   |
|      |               |  | \$97a.   | BARTH, Martin, Dipl Ing  |                   |
| 1    | <b>ZY</b> (•  | LINK, Otto, Ing  | =>1=-  | Michelhausen bei Tullen  | · · · · · · · · · |
|      |               | Balingen/Wttbg   |  | <b>Ossterreich</b>   |                   |
|      |               | Fa Bizerba   |  |  |                   |
|      | 208.          | SCHURDER, Prof Br                                      | 2984.  | ROBINDES, Dr. Ing  |                   |
| l l  | -/~*          | Barmatadt :  | •  | Landshut/Bayern oder   |                   |
|      |               | Technische Hochschule                                  |  | Waldbaumn 35, usber Wuersburg  |                   |
|      |               |  |  |  |                   |
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299a. KLUGHAMMER, Dipl Ing \_\_\_\_\_ Landshut

nclosure

- Ludvige Maffen c/o Binvohner-Meldeant
- 300. MERRER, Heinz, Ing \_\_\_\_\_\_ 300a. HOLZINGER, Eduard, F M Rostock Richard Wagnerstr 18

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| Ludvig-I      | · · · · · · · · · · · · · · · · · · ·   |
| Ludvig II     | · · · · · · · · · · · · · · · · · · ·   |
| Mahlo         |   |
| Manteuffel    |   |
| Meischeider   |   |
| Muchlner      |   |
| Querengaesser |   |
| Raithel       |   |
| Rosenthal     | ······································  |
|               |   |
| Roth          |   |
| Scheele       |   |
| Scherzer      |   |
| Schlechter    |   |
| Schmid        |   |
| Schmidt       |   |
| Schmieden     | ·                                       |
| Schubert      | · · · ·                                 |
| Schwaigerer   |   |
| Schvede       | · · · · · · · · · · · · · · · · · · ·   |
| Seebach       | · · · · · · · · · · · · · · · · · · ·   |
| Speer         | • |
| Steehli       |   |
| Stein         |   |
| Timmerboff    |   |
|               |   |
| Truemper      |   |
| Yoeppel       |   |
| Walther       |   |
| Wintergerst   |   |
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| Zimmermann    |   |
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| 738<br>1418 | Bachnain  | 110          | Lange          | ·····                                   |
| 628         |   | 1458         | Lohmann        |   |
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| 368         | Bernāt de la companya | 52           | MAGE           |   |
| 123         | Bernst  | 147          | Meuta          | · · · ·                                 |
| 1224        | Blue  | 2(3          | Notebus        | ана на |
| 24          | Broetzel estatute and a second  | LOUL         | TAIMABR        |   |
| 293         | Bussig  |              | 786 <b>)st</b> |   |
| 204         | Caninenbe Approved for Release. 2022/   | 00/22 000010 |                |   |

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#### VICTORIA MORNELLAN AA

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| 119          | Aug'N Kampe                           | 93 <b>a</b> | Loehberg      |
| 122          | Bacher                                | 85a         | Ludvig I      |
| 128          | Beckmaan                              | 189         | Ludvig II     |
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| 2738         | Erdmann-Jesnitzer                     | 68a         | Scheels       |
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| 207          | fiedler                               | 36          | Schlechter    |
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| 208a         | <b>Fischer</b>                        |             | Schmidt       |
|              | Genschow                              | 298         | Schnieden     |
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| 2218         |                                       | 2798        | Schvede       |
| 1            | Taeusermann                           | 2514        | Seebach       |
| 293a         | Bardt                                 | 121         | Speer         |
| 130          | HATTANS                               | 2278        | Stachli       |
| 166 <b>a</b> | HASS                                  | 2464        | Stein         |
| 251          | Harel                                 | 202         | Timerboll     |
| 119a         | Hochndorf                             | 2581        | Тгисирег      |
| 54a          | Hornung (See 294 and 298a)            | 197         | Yoeppel       |
| 279          | Yosebann                              | ±71         | Valther       |
| 87           | Jenaisson                             | 2494        | Wintergerst   |
| 246          | Kappus                                |             | Wittig        |
| 113          | Kloeppel                              | 2234        | Zimpernann    |
| 5a.          | Kox                                   | 171         |               |
| 85           | Lichte                                | 94a -       | Zumbusch      |

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| 2978 | Bartb                      | 219a      |
| 368  | Berndt                     | - 52      |
| 123  | Bernst                     | 147       |
| 122a | Bluca                      | 273       |
| 24   | Bruetzel                   | 1804      |
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| 102  | Dollhoff                   | 262       |
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| 909. | Endress                    | 108       |
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| Lohnann              |
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| Madee                |
| Neuth                |
| Moebus               |
| Nosch                |
| Teumann              |
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| Otto                 |
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| Pieler               |
| Pitschmann (See 163) |
| Poetzschke           |
| Rentsch              |



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| 95 <b>a</b>       | Fleck             | 234           | Roland        |
| 93                | Pock              | 221           | Sacher        |
| 56 <b>a</b>       | Fuhr (See 272a)   | 50            | Ballvey       |
|                   | Goerner           | 268           | Scheufuss     |
| 223               | Gorges            | 179           | Scheer        |
| 90                | Guenthner         |               | Schelich      |
| 1614              | Guenther          | 354           | Bchenne       |
| 230               | Hackh (See 264a)  | 105           | Schendel      |
| 16 <b>a</b>       | Eandel            | 67            | Schvedes      |
| 149               | Kannevald         | 177a *        | Beufert       |
| 2454              | Hauser            |               |               |
| 178               | Himstedt          | 113a<br>160   | 8ielaff       |
| 151               | Kaefer            |               | <b>Stagge</b> |
| la                | Kagerer           | 231           | Sture         |
| 3a.               | Kaiser            | 254           | Tantzen       |
| 39                | Kirbaur           | 1258          | Tasche        |
| 299a              | Klughamer         | 258           | Thiry         |
| 41                | Y                 | 2534          | Thua          |
| 201               | Knothe (See 121a) | 219           | Urtel         |
| 149a              | Koechel           | 1104          | Wahren        |
| 16                | Koellner          | 142           | Weigand       |
| 10                | Braemer, Franz    | 181           | Vieser        |
| 32<br>38 <b>a</b> | Kraemer, Fritz    | <b>158a</b> i | Vilhelm       |
| 30a<br>81         | Krazar            | 10            | Wingensiefen  |
|                   | <b>D</b> roh      | 43a!          | Zettl         |
| 53                | Kuehne            | 67.           | Zilha         |
| 20                | Kuerschner        |               |               |
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## Technicians

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|   | Anders                        | 53ª Layes (See 143)             |  |
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|   | Andrich                       | 21 Lindenberg                   |  |
|   | Apel                          | 10a Link (See 297)              |  |
|   | Baetz                         | 25a Linke                       |  |
|   | Baeuerle                      | 72ª Loh                         |  |
|   | Bartels                       | 102a Ludevig                    |  |
|   | Baumgartel                    | 47a Marerhoefer                 |  |
|   | Behrens                       |                                 |  |
|   | Benedix (See 218a)            |                                 |  |
|   | Beyrich                       |                                 |  |
| • | Bluethner                     |                                 |  |
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|   | Bolske                        | 47 Noths                        |  |
|   | Braselman                     | 69 Muenz                        |  |
|   | Brinkmeier                    | 77a Neil                        |  |
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|   | Buerger                       | 4 Osthoff                       |  |
|   | Bunte                         | 193a Palm                       |  |
|   | Dehi                          | 58 Partenfelder                 |  |
|   | Dippart                       | 160a Pauli (See 229)            |  |
|   | Dueck                         | 210 Pehle                       |  |
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|   | Tellmann                      |                                 |  |
|   | Fick (See 137)                | 242 Prasthofer                  |  |
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|   | Fischer                       | 224 Reinel                      |  |
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|   | Frank                         |                                 |  |
|   | Franz (See Approved for Relea | se: 2022/06/22 C00010/86        |  |

| 16a          | Handel                 | 67                    |   |
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| 149          |                        | 67                    | Schwedes  |
| 245a         | Hauser Approved for Re | lease: 2022/06/22 C00 |   |
| 178          | Aimstedt               | 113a<br>160           | Sielaff   |
| 151          | Kaefer                 |                       | Stagge  |
| 14           | Kagerer                | 231<br>05h            |   |
| 34           | Kaiser                 | 254                   | Tentzen   |
|              | Kirmaur.               | 125a                  | Tasche  |
| 299a         | Ilughamer              | 258<br>253 <b>a</b>   | Thiry   |
| 41           | Knothe (See 121a)      | 2538                  | Thus and a second se |
| 201          | Koechel                | 219                   | Urtel   |
| 149a         | Koellner               | 110a                  | Wahren  |
| 16           | Kraemer, Franz         | 142<br>181            | Weigand   |
| 32           | Kraemer, Fritz         |                       | Wieser  |
| 38a          | Krazer                 | 158a                  |   |
| 81           | Troh                   |                       | Wingensiefen  |
| 53 IS        | Kuchna                 | 434                   | Zett1   |
| 20           | Kuerschner             | 67 <b>a</b>           | Zilka   |
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| 73           | Anders                 | 534                   | Layes (See 143)   |
| 2064         |                        | 21                    | Lindenberg  |
| 216a         | Apel                   | 106                   | Link (See 297)  |
| 127a         | Baetz                  | 258                   | Linke   |
| 117          | Baeverle               |                       | Loh   |
| 55 <b>e</b>  | Bartels                |                       | Ludevig   |
| 141          | Baungartel             |                       | Newskasten  |
| <b>99</b>    | Behrens                |                       | Marerboefer   |
| 314          | Benedix (See 218a)     | 1                     | Mearettich  |
| 276 <b>a</b> | Bevrich                | 20                    | Merkelbach  |
| 212a         | Bluethner              |                       | Milenz  |
| 2544         | Boebse                 | 2864                  | Mochring  |
| 117 <b>a</b> | Boettcher              | 47                    | Koths   |
| 200          | Bolske                 | 69                    | - Nienz   |
| 63           | Braselmann             | 778                   | Neil  |
| 101          | Brinkmeier             |                       |   |
| 159à         | Buckesfeld             | <b>2</b> 3            | Oese  |
| 1064         | Buerger                | -                     | Osthoff   |
| 15a          | Bunte !                | 1734                  | Palm  |
| 56           | Dahi                   | 58                    | Partenfelder  |
| 50a          | Dippart                | 160a                  | Pauli (8ee 229)   |
| 285          |                        | 210                   | Pehle   |
| 194          | Dueck :                | 1044                  | Perlick (See 200a and 264)  |
|              | Eberl Rdlam            | 136a                  | Pleifer   |
| 95<br>30     | Bdler :                | 33                    | Pferdtmenges  |
|              | Tellmann               | <b>18a</b>            | Philipss  |
| 51a<br>65a   | Fick (Bee 137)         | 242                   | Prasthofer  |
| 65a          | Firmrohr               | - 34                  | Reilmann  |
| 22           | Fischer                | 224                   | Reinel  |
| 129          | Flandorfer             | 287a                  | Reipert   |
| 162          | Frank                  | 82                    | Rotha   |
| 27a          | Franz (See 263a)       | 404                   | Rust (See 132)  |
| 78 <b>e</b>  | Frey                   | 228                   | Ruttenstock   |
| 34a          | Gebrken                | 193                   | Saelzler  |
| 99           | Geiling                | 22a                   | Sameck  |
| 214          | Genssle (See 107)      | 984                   | Sandvoss (See 240a and 270)   |
| 19a          | Gerbards (See 103)     | 2664                  | Cabaumana (Des 2408 REd 2(0)  |
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| 177                 | Gerbardt                                       | 63.      | Schift       |
| 185                 | Goerth   | 1204     | Schlo.       |
| 51                  | Goldazzer                                      | - 60     | Schmi        |
| 18                  | Gropp  | 80       | Schmi        |
| 100                 | Guentschel                                     | 494      | Schne        |
| 218                 | KABSE  | 162      | Schne        |
| 64a                 | Haefner  | 205      | Schue        |
| 54                  |  | 29       | Schue        |
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| 175 <b>a</b><br>106 | Hartmann<br>Earzbecher                         | 175      | Schul        |
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| 1871                | HASS   | 46a      | Schva        |
| 75                  | WAAR AND STRUCTURE STRUCTURES IN STRUCTURES IN | 134      | Seiff        |
| 19                  | Heck   |          | Seile        |
| 294                 | Heeger   |          |              |
| 80a                 | Neesè  | 277•     | Semli        |
| 8 <b>a</b>          | Reinisch                                       | 1164     | Sima         |
| 72                  | Hennecke                                       | 261.     | Some         |
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| 204                 | Hermann, Emil                                  | 2014     | - Steir      |
| 8                   | Herold   | 217      | Ster         |
| 13                  | Heselmann                                      | 226a 🗄   | Stup         |
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| 31                  | Hilten   | 57       | Thom         |
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| 133a                | Hoffman  | 166      | Toeni        |
| 1294                | Holske   | 2108     | Treti        |
| 2424                | Horn   | 127      | Tach         |
| 594                 | Hufep (See 148)                                | 78       | Tuebl        |
| 1484                | Joehren  | 178      | Tutz         |
| 252                 | Kachler  | 754      | Utpa         |
| 159                 | Klar   | 1574     | Yon          |
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| 23<br>266           | Fleinhannes                                    | 15       | Vebe         |
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| 26a                 |  |          | Vern         |
| 98                  | Koegel   |          |              |
| 100a                | Koenig, Kurt                                   |          | Wern<br>Wild |
| 7                   | Koenig, Rūdi                                   | 1944     |              |
| 136                 | Koesters                                       | 2024     | Vink.        |
| 118a                | Koheutek                                       | 26       | Wint         |
| 237                 | Kollert  | 17       | Voeg         |
| 44a                 | Krafft (See 135)                               | 217      | Wohl         |
| 133                 | Trauss   | ·        | Wues.        |
| 27                  | Kroeger  |          | Wutt         |
| 77                  | Kuberg   | 49       | Wutz         |
| 234                 | Lang (See 69a)                                 | 289a     | Zieg         |
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| Schiffmann (See 181a | and 240)                              |
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| Allaurgen            |                                       |
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| Wohl                 |                                       |
| Vuesten              |                                       |
| Wutthe               |                                       |
| Wutz                 | · · · · · · · · · · · · · · · · · · · |
| Ziegler              |                                       |
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# Fine Mechanics (F M)

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|                                       | 1118  | Aderbolt                       | 291.8               | Konzak                 |
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| 106         | Karzbecher Approved for Release |              |                         |
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Report on Tenth Informal S and T Coordination Meeting Held in Frankfurt, 15 June 1951

Present: Col. H. H. Rogers, ID/EUCOM Maj. J. M. Hustead, ID/EUCOM Dr. S. H. Williams, Eq/USFA LCDR S. F. Tyler, ONI Lt. Col. L. D. Ely, ATIO, USAFE Nr. F. D. Bradley, OI/HICOG Dr. K. H. Weber, OI/HICOG

(b) Recent developments in the implementation of Project 63 were discussed. Since certain methods now used do not appear satisfactory to all theater agencies. it was agreed that the Director of Intelligence. HICO3 should be asked to call together representatives of the agencies concerned with this project to discuss the problem and devise a coordinated method of implementation.

Approved for Release Date MUL 1985

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INTRODUCTION

The following is a composite report of the sources' observations and evaluations of scientific research in Berlin and the Western Zones of Germany including:

a. A general report consisting of brief articles on the present status of German scientific research including a comparison of research in the Western and Eastern Zones.

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b. Institute reports which include information on the buildings, equipment, personnel and individual research projects for each of the institutions visited.

To aid the reader, the following have been compiled and appear at the beginning of this report:

a. A table of contents which includes a list of the institutions on which the sources report.

b. A name index of all scientists mentioned in the report.

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#### GENERAL REPORT

#### 1. THE INSTITUTE SYSTEM

There are a few general comments regarding the differences between research laboratories and the conditions under which scientific research is done in the US and in Germany.

In the first place an institute of physics in a German university is very different from a department of physics in a US university, although both fulfill almost identical functions. The US department, in a large university, has several full professors (in Chicago, there are 12 in the department of physics; 14 in chemistry of which eight are physical chemists) and an approximately equal or greater number of associate professors, assistant professors and instructors. In addition, there are usually some, but few, research assistants whose duties are to aid particular professors in their research. The German institute is usually the property of one full professor, who has several assistants assigned to him, and may include one or two "planmaessige" associate professor (auserordentlich). The usual complement of institutes in a German university includes one institute each of physics, chemistry, and, sometimes, applied physics, theoretical physics, inorganic chemistry and organic chemistry separately. Therefore, the total staff of full professors in the physical sciences is very much smaller than the equivalent staff of one of the great US universities.

With the present tendency to decrease the number of assistants in the German departments, the teaching load on the full professor is quite incredible on the standards of the better US universities. Against this, there is one relieving feature in the German teaching method. Course examinations and tests are not usual in Germany. The amount of personal contact between teacher and student is a minimum in the courses. The rather large amount of advising, test correcting, and making out of grades, that goes with the usual US lecture course is absent. In spite of this relieving feature, it is difficult for an American to understand how the German professor ever manages to find time to direct research, except during the holidays. Indeed, many professors remarked that they had no time for research except during the holidays.

#### 2. PUBLIC ESTEEM OF SCIENCE

There is a second difference between the conditions of research in the US and Germany. Presumably before World War I, and to our knowledge in the period 1920-33, the public esteem of scientific and theoretical work was high in Germany. In this period, the US professor rather envied the social and financial position of his German colleague. During the ensuing period, the US scientific scholar has gained enormously in public esteem, particularly due to the phenomenal importance of scientific research in the war. The financial support of scientific work in the US is adequate and essentially unquestioned. The US scientist is now used to a certain degree of public regard and esteem, and, as a group, scientists are consulted in matters of public policy.

Due, probably, to the consistent propaganda of defamation against all things academic by the Nazi Government, and perhaps also to the comparative failure of German science to contribute to the German war effort in World War II, the public esteem of science, and particularly theoretical science, has decreased in Germany. The result is that the US scientist, well acquainted with both countries before 1933, is now surprised at the complete lack of support for scientific work in Germany compared to the US. This lack of support is not only the result of the financial poverty of the German States. Professors appear to have little or no influence on their Kultur Ministerium" in the various states. The "Kultur Minister" appears to be frequently incompetent and arrogant. Certainly in Hesse this condition is particularly flagrant.

#### 3. THE SUCCESSFUL DIRECTOR

A third general comment concerns a situation which is a direct consequence of the general financial difficu Approved for Release: 2022/06/22 C00010786actors:

from a department of physics in a US university. although both fulfill almost identical functions. The US departmeApproved for Release: 2022/06/22 C00010786 full professors (in Chicago, there are 12 in the department of physics; 14 in chemistry of which eight are physical chemists) and an approximately equal or greater number of associate professors, assistant professors and instructors. In addition, there are usually some, but few, research assistants whose duties are to aid particular professors in their research. The German institute is usually the property of one full professor, who has several assistants assigned to him, and may include one or two "planmaessige" associate professor (auserordentlich). The usual complement of institutes in a German university includes one institute each of physics, chemistry, and, sometimes, applied physics, theoretical physics, inorganic chemistry and organic chemistry separately. Therefore, the total staff of full professors in the physical sciences is very much smaller than the equivalent staff of one of the great US universities.

With the present tendency to decrease the number of assistants in the German departments, the teaching load on the full professor is quite incredible on the standards of the better US universities. Against this, there is one relieving feature in the German teaching method. Course examinations and tests are not usual in Germany. The amount of personal contact between teacher and student is a minimum in the courses. The rather large amount of advising, test correcting, and making out of grades, that goes with the usual US lecture course is absent. In spite of this relieving feature, it is difficult for an American to understand how the German professor ever manages to find time to direct research, except during the holidays.

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#### 3. THE SUCCESSFUL DIRECTOR

A certain amount of aggressive ambition and energy in overcoming difficulties is a necessary attribute of the successful scientist under the most favorable conditions. However, the difficulties which the US scientist must combat are those imposed by the nature of his science, and are not primarily those of financial lack of equipment, nor of the man-made stupidities of bureaucracy.

The average German institute has suffered severely during the war by destruction of buildings, loss of apparatus, lack of budget, and by the additional imposition of a lack of public support, either from industry or from the state governments. The result is that the success of an institute in producing scientific work since the war is frequently dependent on accidental factors of destruction suffered, and on the personal abilities and aggressiveness of the director in obtaining financial support and combating the heavy hand of the German State bureaucracy. The abilities which in the US would be considered a criterion for success are frequently not sufficient to produce results under German conditions.

4. PHYSICAL CHEMISTRY AND PHYSICS

In the US there is a strong tendency for physical chemical laboratories to expand their field of research to include fields formerly called physics. Most young US spectroscopists are now employed as physical chemists, whereas this field was formerly physics. Most low temperature laboratories in the US belong to physical chemical departments rather than physics. In Germany this trend is less noticeable.

In view of the difficulty of defining a field of research as belonging to one or the other scientific discipline, it is difficult to compare the relative status of the actual sciences in the two countries. However, it is easy to compare the relative status of the institutes calling themselves physics to those calling themselves physical chemistry in Germany, with the similar status in the US.

By such a comparison it is clear that physical chemistry compared to physics is far weaker in Germany than in the US. This is not a new development, but probably dates from the baleful effect of Nernst's heavy hand on physical chemistry in Germany in the first quarter of the twentieth century.

The ratio, three institutes of experimental, and one of theoretical physics in Goettingen, to one institute of physical chemistry, at present without a director, is not far from typical in Germany. In Heidelberg, there are three physics "Ordinaria" and one in physical chemistry. In Bonn, physical chemistry was an "Abteilung" of chemistry until recently. In Werzburg, there is no physical chemistry.

In the US, chemistry departments were, before World War II, usually double the size of the physics departments, and the chemistry departments were about half physical chemistry. Since the war, physics departments in the US have probably expanded more than chemistry. The ratio of 12 full professors in physics at Chicago to eight in physical chemistry is probably typical of US universities. It is probably fair to say that the ratio is 3 to 1 in Germany rath or than 3 to 2 in the US.

The ratio of the number of institutes in Germany is not even as marked as the general ratio in equipment and excellence of the institutes. Goettingen, Frankfurt, Muenchen (University), Darmstadt, do not have occupants for the chair of physical chemistry. Except for the Institute of University and the institute in Stuttgart, none of a lack of public support. either from industry or from the state governments. The result is that the Approved for Release: 2022/06/22 C00010786ientific work since the war is frequently dependent on accidental factors of destruction suffered, and on the personal abilities and aggressiveness of the director in obtaining financial support and combating the heavy hand of the German State bureaucracy. The abilities which in the US would be considered a criterion for success are frequently not sufficient to produce results under German conditions.

#### 4. PHYSICAL CHEMISTRY AND PHYSICS

It is an old story that a physicist is a man employed by a physics laboratory and a physical chemist one employed in a physical chemistry laboratory. The division between the two fields has become so fine that no other definition is generally applicable. Work done in one physical laboratory may be almost identical in character to work done elsewhere in a physical chemical laboratory.

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This sad weakness of the institutes of physical chemistry in Germany is, however, largely compensated by a tendency for the physicists to undertake problems in fields which would be handled by physical chemists in the US.

#### 5. THE UNIVERSITY LABORATORIES

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The university laboratories, with few exceptions, work under very difficult conditions. Some have good reconstructed buildings, others work in cellars of ruins. The budget of all of them is completely inadequate. The usual sum for purchase of equipment and all running expenses excluding salaries, heat, gas and building repairs is 10,000 DM per year. This, in most places, amounts to \$75.00 per year or less for each research worker, not counting expenses for demonstration and beginners' laboratories! It seems that the universities have stood still since about 1905. Salaries may have had to be raised, the number of scientists and mechanics has remained roughly the same, and the budgets have also not been changed. In the meantime, prices have risen and more complicated equipment is required.

The more aggressive ones among the laboratory directors evidently manage to get some outside support. One seldom can find out how or where this comes from. Evidently, this money does not go through regular university channels, in which case it would be divided among several institutes. One professor claimed that this outside money was kept in cash in a drawer at the laboratory to be used as needed. It is not quite obvious that this is legal, hence the reluctance to discuss it. Actually, the industries supply very little money. Leitz is the one industry which has had a very definite effect on one university, Giessen, by endowing a chair for theoretical physics.

Altogether, however, this outside support does not seem to amount to too much. We would guess that, in the average, it does not more than double the income, which is still too little. Besides, this support is bitterly bought by using the laboratory directors time. ERP money has been a real help.

On this background of working conditions and lack of understanding by the government, one cannot but admire the physicists and chemists who keep up a high standard of careful research. It is surprising that so many scientists have kept their scientific enthusiasm in such adverse circumstances.

The soul of every German laboratory is the workshop. These are usually well equipped and contain, per scientific worker, a considerably greater number of skilled mechanics than is usual in the US. Consequently, a very large number of things which we buy are here constructed in the workshops. Such objects range from mass spectrometers to vacuum tubes. It is clear that this system is basically inefficient, but it is the only means by which research can be continued.

In almost all university laboratories, the work done impressed us well. It is careful, accurate and systematic. Clearly there are differences. The smaller laboratories usually specialize on one particular problem which they try to solve as completely as possible. Almost all physical chemistry departments do this. A typical example is the laboratory of Macke, physical chemistry, in Freiburg.

Frofessor Hilsch has an excellent laboratory, entirely devoted to work on superconductivity, an interesting subject. Professor Kulenkampf, physics, Wuerzburg, limits himself to X-rays. The work of such laboratories is not always of great interest, but it is research that should be done. Other laboratories intentionally put their interest on a very broad basis. This, of course, is much better for the student. The physics institute of Karlsruhe, run by Gehrtsen, is an example.

The best university laboratories which we have seen are, from the standpoint of amount and interest of work performed, and scientific spirit, in order: the physics institute of Kopfermann in Goettingen; that of Walcher-in Marburg; those of Haxel and Bothe in Heidelberg. The laboratory of Harteck in Hamburg, which we only scanned under the guidance of a theoretical physicist, may be in this class. Only two of the KWI's rank with these best university laboratories: the one for physical chemistry in Berlin and the one at Mains, which is not wat complete but shows great promise. Tt should be kent in min<sup>Approved</sup> for Release: 2022/06/22 C00010786 ted by our own special beginners' laboratories! It seems that the universities have stood still since about 1905. Salaries mayApproved for Release: 2022/06/22 C00010786cientists and mechanics has remained roughly the same, and the budgets have also not been changed. In the meantime, prices have risen and more complicated equipment is required.

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The laboratories should not only be evaluated by the work that is done, but also by the work which is not done because it is too expensive, although negligibly cheap by US standards. Many times did we discuss the scientific problems of some laboratory and suggested extensions or modifications of procedure. The answer is: "We have thought of that, /and they had, in all details/ but we simply cannot afford it." There are some pathetic cases. A student in Darmstadt was doing a very promising research problem, which he had to break off, since the laboratory could not afford the electric current to heat a Tammann oven - price: 300 DM per month. This illustrates the fact that even small improvements in financial conditions will pay off in amount of research produced.

In view of the enormous difference, probably by a factor as large as ten, of the means available per scientific worker in Germany and the US, one may well ask if the German work is of any value at all. If the answer is yes, as it is, one may then wonder if the US laboratories are merely wasting money. The answer is complicated.

Certain scientific questions cannot be answered by the use of inexpensive equipment. Other questions can be so answered. Although most research in the US is not wasteful, there is a tendency, due to the ease with which support can be obtained, to pick those problems which require expensive equipment. Probably, in many cases, not enough effort has been expended to think how the job could have been done more cheaply.

The German scientists consciously pick those problems that require equipment within their means. These problems are numerous, and most of the work is good and of real value. Unfortunately, the consequences of a problem cannot always be foreseen. In many cases, the German is cut off from pursuing a line opened up by his own research because of the cost of the necessary equipment.

#### 6. THE FUTURE OF THE UNIVERSITIES

This picture of the status of the university laboratories is not a static one. Great changes are occurring, and even if the support of the universities does not increase, the general situation will look different and better in a year or two. This is less true for physical-chemistry than for physics.

At the present moment, very few laboratories are in full swing and producing publishable work. Most of them were more or less destroyed, or at least short of equipment, in 1946. A considerable number have been taken over, since 1945, by new, younger and more energetic directors. As yet, the reconstruction of none of these is complete. Some have, by now, adequate buildings. Prebably almost all of them will have reached that stage in a couple of years. There remains a considerable shortage of equipment, which is steadily being built up. At the places where the equipment is new, it is sometimes so new that it has not yet yielded scientific results.

In the physics departments, major changes are on the way, since a considerable number of laboratories are constructing major pieces of equipment. For instance, Hamburg, Freiburg and Mainz are building pressure van der Graafs for 4-6 m.e.v. Kopfermann in Goettingen has contracted for a large Betatron, any number of laboratories for small ones. In a year or two, all these things will be working and yielding results. By that time, the German laboratories may give the impression of modest, but up-to-date institutions, by US standards. ERP money has been a great help and is largely responsible for Release: 2022/06/22 C00010786 tions will pay off in amount of research produced. Approved for Release: 2022/06/22 C00010786

Many of the laboratories are behind US developments and know it. We heard the frequent remark: "First, we have to catch up with you in the US." This applies mostly to the fields of ferromagnetism and semiconductors. Other laboratories are fully up-todate and contribute to the knowledge in the US. Queerly enough, this is also the case in the field of nuclear physics.

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#### 7. THE MAX PLANCK INSTITUTES

The situation at the Kaiser-Wilhelm Institutes (KWI) or Max Planck Institutes, is entirely different from that of the universities. There is no lack of space and no real lack of money. Any reasonable request for apparatus can be fulfilled. These institutes are well equipped according to US standards. This statement has to be modified with respect to nuclear physics. Whereas a large number of US institutions have "atomsmashing" machines giving more than 100 m.e.v., none such exist in Germany. A single cyclotron for 3 m.e.v. exists at Heidelberg.

It is very important that in a country where most institutions are poor, there exist some well equipped laboratories as a model to which one should aspire. It is to be hoped that at some time the university laboratories will reach the standard of the KWI's.

Needless to say, the existence of rich laboratories in a country of poor ones creates problems and envy. Formerly, the few positions of Directors of KWI institutes were particular positions awarded only to the very best scientists in the land: Einstein, von Laue, Max Planck, Hahn, were such people. This highest standard of scholarship is no longer strictly adhered to. Butenant and Bonhoeffer, the men with by far the greatest reputations in their respective fields, are obvious and correct choices for receiving KWI positions. Bothe deserves one, although he has it in name only, since the building is still occupied by US forces.

It is not obviously clear that Heisenberg, a theoretician, should be the director of an experimental institute; in his war work on piles he has not proved to be a good leader of experimentalists.

The Berlin KWI for physical chemistry has, for lack of directorship, fallen apart into a number of semi-independent small institutes. Very good work is done. The men in it, for instance Ueberreiter and Stranski are very good, but no better than some university physicists or chemists. Yet they have entirely different conditions of work, much better possibilities to publish and make their names known. The scientists at the universities see this very clearly and are thoroughly disturbed.

Altogether, we were not too impressed by the research of the KWI's. The work is no better than at the good universities, which live in perpetual struggle for money. At Goettingen, for instance, the university physics laboratorium of Kopfermann (2, Physikalisches Institut), with a budget of 10,000 DM, has much more interesting research than the KWI, yet the working conditions are shockingly different.

If science in Germany is to be helped, this is not done by further improving the lot of the Max Planck Institutes. The most important task would be to support the university laboratories and bring them up to the standard of equipment of the Max Planck Institutes.

#### 8. NUCLEAR RESEARCH IN GERMANY

Nuclear research in Germany is undertaken in only a few laboratories, and is, in many respects, far behind the developments in the US. For one thing, there is a lack of the high energy machines, cyclotrons, large van der Graafs, etc, which are encountered in many laboratories in the US. The construction of such machines is forbidden\_by\_\_\_\_\_\_ law. Actually, this makes little difference since the money for such constructions would not be available.

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The few laboratories which are actively working on nuclear research (at present only Mainz, Heidelberg, Marburg and Goettingen) are not greatly hindered by these laws. There are a number of laboratories which shy away from this field. We were often teld that nuclear physics is "forbidden" which is patently not true. But some scientists object to having to ask permission, and say they don't want any favors.



The lack of interest in nuclear physics makes itself felt in adjacent fields. The situation is a clear example of what scientists in the US have claimed would happen if one licenses nuclear physics: nuclear physics would perhaps continue, but the adjacent fields would suffer. In the US, a great deal of physical chemistry measurements are made with radioactive tracer techniques. The same bolds for medical research. Completely new fields are opened by these methods. We have not seen a single physical chemistry laboratory in Germany in which tracer methods were used. Radioactive tracers are available in Germany through Harwell (I do not know at what prices). No isotopes, separated stable, or radioactive can be obtained from the US. We tried to check on tracer work in medicine by discussing the question with a US research associate who is visiting medical laboratories\_under the auspices of the MSB. He had not seen any such research (see 00-B-29099/.

#### 9. THE STUDENTS

In all laboratories, it is very noticeable that a generation is missing. There are exceedingly few men who are not far beyond their Ph Dr degree. Formerly, a good laboratory would contain roughly one Ph Dr to two students. These Ph Dr's were kept on as assistants or on fellewships. At present, a laboratory, on the average, comprises one or two post Ph Dr assistants for about 15 students working towards their doctorate. After the war, a very\_vigorous selection of students was undertaken. At present, only one out of ten applicants is admitted to physics or chemistry. The result is that a crop of students is finishing up at present. The opinion of most laboratories is that the present crop is excellent. The men have mostly been in the war and are more mature than the normal student. It is well worth watching how these men will develop in the future. One exception in this pattern is Mainz. There was no selection made here at admittance, and the students were reported to be rather poor.

Our personal impression of the students was that they were stiff and formal. They stood at attention when the chief entered, and, upon being asked to tell what they were doing, recited details of their apparatus in an unenthusiastic manner. In many of the laboratories the director would not choose to introduce any student, and would speak about the research himself. Of course, there were exceptions to this. In many laboratories, few students were around during the vacation.

By and large, however, we gained the impression that the chasm between professor and student is very, very much wider in Germany than in the US. This is an unhealthy situation. The lack of an intermediate generation enhances this. There are a number of professors who are conscious of this fact, consider it dengerous and act definitely to change it. But it will require many years to bring about cordial relations on an equal footing between professors and students. Since no student was ever invited with us by any of the professors, and since the students seemed to be somewhat on the defensive, we did not manage to establish any contact with them except at one occasion, namely at Wuerzburg. Here the director, Kuhlenkampf, was away, and two assistants took us around in a very informal way and introduced us to everybody in the laboratory. The students were not stiff and scared, talked well and to the point. They made definitely a good impression. We were then asked to go to the library to talk to the students and tell them about universities in the US. The students were obviously extremely interested, so we spent two hours discussing our systems and their troubles. It was intimated that the visit would have been very different had Kuhlenkampf been there.

The living conditions of the students and the younger assistants are hard. Some students live in the laboratories. One finds cots on which they sleep and an electric plate on which they cook. Some assistants with a family of two children, live in a single room in a laboratory. No isotopes, separated stable on redicative can be obtained from the US. We tried to check on tracer work Approved for Release: 2022/06/22 C00010786 with a US research associate who is visiting medical laboratories\_under the auspices of the MBB. He had not seen any such research [see 00-B-29099].

#### 9. THE STUDENTS

In all laboratories, it is very noticeable that a generation is missing. There are exceedingly few men who are not far beyond their Ph Dr degree. Formerly, a good laboratory would contain roughly one Ph Dr to two students. These Ph Dr's were kept on as assistants or on fellowships. At present, a laboratory, on the average, comprises one or two post Ph Dr assistants for about 15 students working towards their doctorate. After the war, a very vigorous selection of students was undertaken. At present, only one out of ten applicants is admitted to physics or chemistry. The result is that a crop of students is finishing up at present. The opinion of most laboratories is that the present crop is excellent. The men have mostly been in the war and are more mature than the normal student. It is well worth watching how these men will develop in the future. One exception in this pattern is Mainz. There was no selection made here at admittance, and the students were reported to be rather poor.

Our personal impression of the students was that they were stiff and formal. They stood at attention when the chief entered, and, upen being asked to tell what they were doing, recited details of their apparatus in an unenthusiastic manner. In many of the laboratories the director would not choose to introduce any student, and would speak about the research himself. Of course, there were exceptions to this. In many laboratories, few students were around during the vacation.

By and large, however, we gained the impression that the chasm between professor and student is very, very much wider in Germany than in the US. This is an unhealthy \_\_\_\_\_ situation. The lack of an intermediate generation enhances this. There are a number of professors who are conscious of this fact, consider it dengerous and act definitely to change it. But it will require many years to bring about cordial relations on an equal footing between professors and students. Since no student was ever invited with us by any of the professors, and since the students seemed \_\_\_\_\_ to be somewhat on the defensive, we did not manage to establish any contact with them except at one occasion, namely at Wuerzburg. Here the director, Kuhlenkampf, was away, and two assistants took us around in a very informal way and introduced us to everybody in the laboratory. The students were not stiff and scared, talked well and to the point. They made definitely a good impression. We were then asked to go to the library to talk to the students and tell them about universities in the US. The students were obviously extremely interested, so we spent two hours discussing our systems and their troubles. It was intimated that the visit would have been very different had Kuhlenkampf been there.

The living conditions of the students and the younger assistants are hard. Some students live in the laboratories. One finds cots on which they sleep and an electric plate on which they cook. Some assistants with a family of two children, live in a single room in a laboratory.

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We encountered another curious case. The daughter of the ophthalmologist, Professor Wessaly, in Muenchen, is a student of chemistry, has passed her diploma examination and is working for her doctorate. Since the chemistry department at the university is thoroughly destroyed, she has fixed up her own laboratory in the laundry of her parents' home. It is quite well equipped with a thermostat, ample glassware and chemicals.

The future of the present students and young assistants looks very dark. It is simple calculation that, if each institute turns out two Ph Dr's per year (probably much too low a figure), and the turnover of full professors is 20 years, about one out of 400 students will ever obtain the coveted position of "Ordinarius". Perhaps more than twice this number will remain all their life in research organizations, either at KWI's, or as what one used to call "ewiger Frivatdozent"; this means that they will end up as something called "planmaessiger" or "ausserplannaessiger Extraordinarius", attached to some laboratory on a very poor salary. Vogt and Hueckel at Heidelberg, Houtermanns at Goettingen seem to be slated for this fate. Some of these men are just as good scientists as those at the top, but lack the administrative or lecturing ability so that they have never made the race. Between the wars and before the Nazis, it was this group of people who constituted the immigration of scientists into the US. Most have succeeded very well there.

The rest of the students, that is, the vast majority, have to look to industry for employment. The industries, at present, however, do not take many scientists. They have their own troubles of rebuilding and getting known processes running. At this time, most of them are not contemplating the development of new lines for which they would need scientists.

A healthy development of industry may change that in a few years. Otherwise, emigration to the Eastern Zone (section 10) will present a real danger.

10. REPORTS FROM THE EASTERN ZONE

The reports from the Eastern Zone\_sound\_very disquieting. Most eastern scientists showed a reluctance to talk about conditions. But Professor Kienle, who has left Potsdam, and Frofessor\_Heubner, who is now at the Freie Universitaet Berlin, were quite frank.

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The working conditions in the Eastern Zone are, or are rapidly becoming, much better than in the Western Zone. The usual budget of a physics department in the west is 10,000 DM per year, even for as large a laboratory as that in Gosttingen; In comtrast, Greifswald, traditionally a small and unimportant place, has a budget of 120 thousand marks. These are East marks, but in buying power in the Eastern Zone, they are not much less than DM in the West Kone. Kienle's budget in Heidelberg is by factors of 10 less than what it was in Potsdam. A new pharmacological laboratory is built at the Humboldt University for Heubner's successor, much larger than Heubner's at the Freie Universitaet.

Kienle said that, on a top scientist, no pressure is exerted towards active participation with the government. All that is required is that one keeps one's mouth shut. If a student or assistant disappears, one must not ask questions. However, this demand was too much for Kienle.

The Soviets put no obstacle of any kind in Kienle's way when he left for the Western Zune. Those scientists who are afraid of, and hostile to, the USSR consider this a very clever move. At present, there is a constant migration from east to west. But many people foresee a backswing, since conditions for science in the west are bad, positions for young people rare, industry in trouble. Many believe that soon scientists and technicians will begin to turn to the Eastern Zone if they believe that they will be able t Approved for Release: 2022/06/22 C00010786 much too low a figure), and the turnover of full professors is 20 years, about one out of 400 students will eApproved for Release: 2022/06/22 CO0010786inarius". Perhaps more than twice this number will remain all their life in research organizations, either at KWI's, or as what one used to call "ewiger Frivatdozent"; this means that they will end up as something called "planmaessiger" or "ausserplannaessiger Extraordinarius", attached to some laboratory on a very poor salary. Vogt and Hueckel at Heidelberg, Houtermanns at Goettingen seem to be slated for this fate. Some of these men are just as good scientists as those at the top, but lack the administrative or lecturing ability so that they have never made the race. Between the wars and before the Nazis, it was this group of people who constituted the immigration of scientists into the US. Most have succeeded very well there,

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The only remedy would be to improve the conditions for science in the West.

### 11. "DEUTSCHE PHYSIK"

The scientific workers in one laboratory always know better, and regard more highly, the work done by others in their own laboratory thanthat done elsewhere. Similarly, the science of any country always takes undue weight in the eyes of the scientists of that country. The slight difficulty of reading a foreign language adds to this tendency when a language difference exists. US physicists and physical chemists are probably less aware of recent German work than they should be.

This tendency towards nationalism in science is less marked in the regard with which work of ten or twenty years ago is held. Most Americans, in reporting the work of the first half of the twentieth century, would show comparatively little national bias in evaluating the work done, say, previous to 1935.

It was clear, in visiting some of the German laboratories, that the scientists were not sufficiently aware of recent work similar to their own done in the US. This defect may be readily explained by the isolation during the war, and the comparative difficulty, even now in some laboratories, of getting US publications.

No such explanation can be used in the case of the speeches of Heisenberg and of Harteck at the meeting of Naturforscher und Aerzte in Munich on the 22nd of October. Heisenberg spoke on the subject "Fifty years of Quantum Theory" and Harteck on "Quantum Theory in Chemistry". Both speeches should better have had the prefix "German" before Quantum.

Heisenberg succeeded in speaking for an hour on the development of quantum theory without mentioning the names of de Broglie, Fermi, or Brillouin, and referring to Dirac only once. In discussing recent developments of nuclear physics only one US name was mentioned, that of Schwinger. Since the contributions of the German physicists was discussed at length the omissions were quite remarkable. His reference to the discovery of electron spin by Uhlenbeck, rather than by Goudsmit and Uhlenbeck was presumably due to the Alsos book by the former.

Harteck's speech was a curious hodge-podge of discussion of various German investigations, some of which were neither physical chemistry nor quantum mechanics. The widespread application of quantum mechanics to the chemistry of complicated molecules, which is largely an English and US development, was summarized in one sentence saying that in the Anglo-Saxon countries books which are understandable to chemists have been written on quantum mechanics.

The strong tendency of the older German physicists to ignore foreign work is \_\_\_\_\_\_ also demonstrated by one incident frequently related to us by one or other of those who were taken to the British encampment at the close of the war. At the time the atomic bomb exploded over Hiroshima the German atomic scientists in that group \_\_\_\_\_\_\_ did not understand President Truman's reference to the "New element, Plutonium". Since US publications of 1939, 1940 and 1941, which were certainly available to the Germans had they wished to get them, had always referred to element 93 as \_\_\_\_\_\_\_ Neptunium and 94 as Plutonium, this incident merely demonstrates that the US \_\_\_\_\_\_\_\_ work had never been looked at carefully.

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The curious nationalism of these two speeches was not at all noticeable in the speeches on the following day by two astronomers, Heckmann and Kienle.

The strong tendency of the older German physicists to ignore foreign work is also demonstrated by one incident frequently related to us by one or other of those who were taken to the British encampment at the close of the war. At the time the atomic bomb exploded over Hiroshima the German atomic scientists in that group did not understand President Truman's reference to the "New element, Plutonium". Since US publications of 1939, 1940 and 1941, which were certainly available to the Germans had they wished to get them, had always referred to element 93 as Neptunium and 94 as Plutonium, this incident merely demonstrates that the US work had never been looked at carefully.

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This nationalism of viewpoint is not universal among the German physicists, and seems to be rather lacking in the younger generation who occasionally ask, rather pathetically, whether we find any science of any value done in the German laboratories. However, although the younger men show more inferiority complex than conceit, there is still extremely little acquaintance shown with foreign work.

12. THE DIFFERENT LAENDER

The support of the universities in the different German laender is entirely different.

In the US Zone, the institutes in Wuerttemberg-Baden were all either completely repaired and rebuilt or rapidly approaching completion. No general complaints were uttered about the handling of the universities by the "Kultur Ministerium" in this land. Research budgets were not large, or even remotely adequate by US standards, but the institutes seemed to be improving and building up their equipment.

On the other hand, both Hesse and Bavaria seem to be attempting\_to\_destroy what is left of their universities.

The Kultur Minister in Hesse appears to be held in universal contempt by all the professors. The building program is extraordinarily slow, inefficient and inadequate Even comparatively small repair jobs which are greatly needed, and where lack of attention is causing added deterioration, are not undertaken. An example of this is the lecture hall of Czerny's institute in Frankfurt.

Even the disposal of ERP money in this case seems to be done poorly. Gerlach, Rector of Muenchen University, did not know that money was available, nor did Kuhlenkampf at Wuerzburg until after they had heard that money for an electron microscope had been granted to Regensburg. In view of the fact that the name of the scientist who receives this plum is not even known outside of Regensburg, the case seems fantastic.

In contrast to Hesse and Bavaria, the conditions in South Baden and South Wuerttemberg (French Zone), although not good, are quite tolerable. Hamburg appears to go to some effort to support the University. In Nord-Rhein Westphalen the conditions are said to be fair. Hannover is certainly not too good, but far better than Hesse or Bavaria. It is claimed that a general rule exists; wherever the government is socialist, the support of the universities is poor.

It is usually said\_that\_the German Laender are too poor to support their universities. It is a real question whether these Laender can afford to neglect their institutes\_\_\_\_\_\_\_ of scientific research as they do. Unless more money, and very considerably\_more money, is poured into research in Germany, the industries of Germany are bound to fall far behind those of other countries. It is not clear to us how this lesson, which Germany\_taught the world in the late nineteenth and early twentieth\_\_\_\_\_\_\_ century, of the importance of good universities and first class scientific research in attaining modern industrial supremacy, can be so soon forgotten.

In writing this report there is not time nor a convenient library to obtain accurate comparative figures, but a rough comparison with a US state may be made. California, still predominantly agricultural, and less dependent on industry than Western Germany, has four great research institutions, those at Berkeley, Stanford, Los Angeles and Pasadena. These four institutions must together have at least 40 full professorships in physics and perhaps 25 in physical chemistry.

The population of California was 6.9 millions in 1940 which is just that of millions and less than 75% of that of Bavaria.

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Niedersachsen has Goettingen, and the Technische Hochschule at Hannover and Braunschweig, with about eight professors of physics and at most three of physical chemistry, all with research budgets some tenfold less per man than the California budgets.

Bavaria, with Muenchen University and T.H., Erlangen, and Wuerzburg has also about ten full professorships in physics and only two in physical chemistry. The Bamberg and Regensburg institutions are far outclassed by the very numerous, and by no means all bad, smaller colleges and universities of California.

#### 13. REACTIONS TO THE LAWS

The laws 22 and 23, limiting research and industrial production of research instruments in fields considered to be of military importance were not mentioned, at least directly, by the majority of scientists. With a few scientists, however, we heldlong discussions on this subject.

In general, one may say that law 22, limiting research, is only mildly annoying to some, but not severely limiting to legitimate scientific research. Those who were actually engaged in nuclear research found it quite possible to do whatever they needed to do without coming in conflict with its provisions. Stranski expressed some slight annoyance with the fact that his reports from the Technische Hochschule were returned by the English authorities asking for more details. He said that the US authorities accepted the reports he turned in without question. Haxel, in Goettingen, said that the German authorities, to whom the reports were given directly, often made trouble by requiring more detail than was necessary.

The effect of this law in discouraging those whose main field of interest is not nucleonics, but who could use nuclear techniques, from making this use, is also discussed in section 8. This is always an undesirable effect of any law like this one. The use of tracer isotopes is a very useful tool. Difficulty and expense in obtaining isotopes, lack of experience in the technique, and general inertia, always tend to discourage the research worker from using this tool unless it becomes absolutely necessary for the successful pursuit of his problem. If one adds a restriction due to the necessity of obtaining a legal permission, one further increases the inhibition.

It is not clear that fundamental scientific research in nuclear physics should be restricted in Germany. It is so very far from atom bomb construction that one may well question its necessity. On the other hand, the damaging effect of this law is again so slight that it scarcely seems to be an important question, one way or another.

The law 23 limiting the production, use, and possession of certain research instruments is more serious. We have frequently heard criticism of this law. The most frequent form of criticism is that of a few of its rather ridiculous and trivial provisions. Czerny is said to have measured the electrical resistance of a broomstick as a lecture demonstration, and to have pointed out to his class that since its resistance exceeded one megohm its ownership by the laboratory should be formally reported. Geiger counters are made one day, and become scrap metal the next. To report all counters is literally impossible in some laboratories.

This form of criticism was stated most succinctly by Haxel: "We are tired, from Nazi times, of laws that we can't keep. We are willing to accept strict laws, and we want to obey them, but we dislike to be dishonest to our friends in the Scientific Research Division, who have really helped us, by pretending to comply with a law which we cannot comply with".

This character of law 23 can probably be changed without fundamental modification by careful rewriting.

A more fundamental criticism, applying to industry, was voiced several times, and especially by Houtermann and Haxel. This referred to the effect of the law in driving the industrial production of scientific equipment into the Eastern Zone.

It was said that, for one thing, the industries will undertake the construction of, say, betatrons, only if they can construct four or five. Normally, with two orders they would construct this number, expecting to sell-them later. They get permission, one at a time, to construct when they have orders from users only. The result is that they move this part of their industry, with its skilled-technicians, into the Eastern Zone.

A similar case of a small industry which was offered a small order for counters for Turkey was mentioned. The red tape and secretaries necessary to obtain the permission was said to exceed in cost the value of the order. The order went to the Eastern Zone.

We asked Haxel and Houtermann if they had any constructive suggestion for a change. Their proposal was that, in any industry, one makes one man responsible for the fact that no instruments helpful to the Soviets go beyond the Iron Curtain. In a laboratory, visitors on regular inspections will know far more about the war potential than a sheet of apparatus can tell.

# INSTITUTE REPORTS

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| 14. | Institute                             | •           | KAISER WILRELM INSTITUTE FUE<br>DER MAX PLANCK GESELLSCHAFT.  | R PHYSIKALISCHE CHEMIE, (BERLIN)  |
|-----|---------------------------------------|-------------|---|---|
|     | Place                                 |             | Berlin  |   |
|     | Director                              | :           | PROFESSOR DR KARL BONHOEFFER  | <b>(</b> · · · · · ·  |
|     | Date                                  | 1           | Saturday, 26 Aug 50 and Thur  | sday, 28 Sep 50   |
|     | Visit conducted                       |             |   |   |
|     | <b>Ъу</b>                             | :           | Professor STRANSKI on Saturd<br>on Thursday, 28 Sep 50.   | lay, 26 Aug and Prof UEBEKREITER  |
|     | Other Research<br>Workers             |             |   |   |
|     | Encountered                           | f           | PROFESSOR DR ERWIN MUELLER  | (Field Electron Microscope)   |
|     |                                       |             | DR G KANIG  | (Macromolecules)  |
|     |                                       |             | DR H OR'THMANN  | (Viscosity of Polymers)   |
|     |                                       |             | DIPL ING EVELY OTTO   | (Temperature Conductivity of  |
|     |                                       |             |   | Polymers)   |
|     |                                       | -           | PROFESSOR DR MOLIERE  | (Theory and Surface Reactions)  |
|     |                                       |             | DR PLIETH   | (X-ray structure and valence<br>angles)   |
|     | •                                     |             | DR_ING_I_BROSER   | (CdS crystal counter)   |
| •   |                                       |             | dr ing r warmunsky  | (CdS crystal-counter)   |
|     | Equipment                             | •           | entirely reconditioned. It<br>large by US as well as Germa<br>excellent condition and well<br>US laboratories are superior<br>stocked with the recent lite                                    |   |
|     | nderbeer o                            | ě           | apparently adequate august  | of equipment. In addition to an   |
|     |                                       |             | optical instruments there is  | a large Siemens electron micro-   |
|     |                                       |             | scrope which appears to be a  | n excellent and extremely con-  |
|     |                                       |             | venient_instrument  | Micacolicito and exvienciy converses and and  |
|     | General impressio                     | on          |   |   |
|     | and remarks                           |             | consists of a large number of<br>to operate independently but<br>of a large US department. If<br>the impression that the vari<br>scientifically_interested in<br>Were it not for the politica | s seldom here, the institute really<br>of smaller sections which appear<br>cooperatively in much the manner<br>the staff appears to be excellent, and<br>ous sections cooperate and are<br>each others work was obtained.<br>I situation in Berlin one would<br>d be one of the most advantageous |
|     |                                       |             | places_in_the_world for_adva  | nced research in physical chemistry.  |
|     |                                       | •<br>•<br>• | cordial and glad to show us<br>and depressed by the Soviet<br>come to the US. This would<br>who speaks hardly any Englis<br>to the German way of life (h<br>is surprising for a Bulgaria      | PROFESSOR UEBERREITER were extremely<br>around. Both of them are worried<br>threat, and both would like to<br>be difficult for PROFESSOR STRANSKI,<br>h, and who is very much accustomed<br>e is quite a German Nationalist, which<br>m). PROFESSOR UEBERREITER, however,                         |
|     | · · · · · · · · · · · · · · · · · · · |             | speaks English, enjoys teach  | ing, and is young and unmarried.  |

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He would presumably make the necessary adjustments easily. Both men would be very valuable additions to US science.

PROFESSOR STRANSKI would be in great danger if he should fall into the hands of the Soviets. He was asked in 1945 to go to the USSR and stalled about acceptance until the Americans arrived. PROFESSOR UEBERREITER was originally at the Humboldt University, but felt that it was impossible to work under the Soviets.

Individual research projects

# a. PROFESSOR STRANSKI, Crystal Growth and Morphology.

Both urotropine (tetramethyline-tetra amine) and tungsten, which are both body centered cubic, behave similarly. Urotropine grows with the 110 faces alone present, annealing brings out the 100 and 112 faces but not the 111 face. Tungsten (see Mueller, under, for experimental method) similarly never shows 111 face but 110, 100 and 112 faces grow on annealing. (110 face has nearest neighbor interaction, 100 only second nearest, whereas 111 and 112 only third nearest neighbor interaction, however 112 can give second nearest interaction by a shift of surface molecules only). Also the normally occurring (smooth) faces are not wet by the melt at melting point, whereas those with "steps" are, indicating premelting on these faces.

Especially interesting were some experiments with AS<sub>2</sub>O<sub>3</sub>, which crystalizes in two forms, "Arsenite", consisting of a molecular lattice of AS<sub>4</sub>O<sub>6</sub> molecules, and "Clauderite" which has a plane lattice of AS and O atoms. Modification A is stable at low temperatures and C at higher. However, C vaporizes by a factor 600 fold slower, even at the low temperatures where it is the less stable. The transitions between the two forms are very slow. If A is heated so that a vapor of AS<sub>4</sub>O<sub>6</sub> forms and a glowing wire heated in the vapor then a glass-like partial modification of C-forms, which revaporizes when the glowing vire is cooled.

b. ERWIN MUHILER, Field Electron Microscope.

This is probably the most originally new item of research that we saw, and is probably a very valuable and important tool for future research. The principle, and the apparatus, are both almost ridiculously simple.

The sharpened and etched point of a tungsten wire, having a radius of about 10-<sup>9</sup> cm, is placed about 1 cm in front of a wire ring, about 1 cm radius, and all of this in front of a fluorescent screen approximately 5 cm away. The whole is evacuated, and the ring charged to some 10,000 volts positive. The cold electron emission from the wire point, induced by the field, is thus projected on the screen with a magnification of some 10<sup>0</sup> fold. The field at the point is 10<sup>7</sup> volts/cm.

The most obvious effect, first observed, is the difference of emission of the different crystal faces of the needle point. The pointed wire is arranged so that it can be heated. If ann Approved for Release: 2022/06/22 C00010786 ien the faces come at the Humboldt University, but felt that it was impossible

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The most obvious effect, first observed, is the difference of emission of the different crystal faces of the needle point. The pointed wire is arranged so that it can be heated. If annealed, the faces grow, and the edges, when the faces come together, emit strongly, since they are acted upon by a greater electric gradient. Molecules vaporized onto the needle point stand out from the surface and due to the greater gradient at the protrusion, give greater electron emission. The resolution on the screen is about 2 mm or 20 AU at the surface of the point.

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Single Barium atoms are sufficiently large to be seen.

Pthallocyanin molecules give the characteristic pattern of their four leaf clover shape. Heminchloride molecules can be seen, and the center is bright or dark depending on whether the Cl- is above or below.

The whole range of effects was demonstrated to us in some 20 minutes.

This instrument opens up the possibilities of a wide range of application, some of which may, indeed, not turn out well, but at least some of which will certainly be important.

c. UEBERREITER, High Polymer Investigations.

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(1) The polymerization induced by visible light, which is rapid and homogeneous through the solution. This may be of considerable technical importance. The complete kinetics of this\_\_\_\_\_\_ effect is under investigation.\_\_\_\_\_

(2) Viscosity of Polymers (with DR H QRTHMANN). The viscosity is measured over a very long temperature range by three methods, flow, plastic lengthening and plastic twisting. The points by the different methods overlap. In plastic lengthening and twisting the significant value is the steady value obtained after several days or weeks when very high strains have occurred, for instance, lengthening by 800 percent.

(3) <u>Temperature conductivity</u> (with EVELY OTTO). A cylinder of plastic, with a thermocouple in the center, having a constant temperature throughout, is dipped suddenly in a thermostat of another temperature (5<sup>°</sup>C different). The time change of temperature is observed. The coefficient itself shows second order changes if plotted against temperature.

Although this section of the Institute is modest in comparison with the more well known institute of Staudinger in Freiburg, it gave the impression of a more modern and imaginative approach than that current at Freiburg. Ueberreiter has capabilities of becoming one of the most productive workers in this important field.

d. <u>Electron Microscope</u>. The use of the Siemens electron microscope was demonstrated. The instrument was very impressive and convenient to use.

e. <u>BROSER and WARMINSKY</u>. The luminescence and simultaneous conductivity of CdS crystals induced by radioactive emissions (d-rays) was being studied. Decay times of about 10<sup>-0</sup> seconds occur. The effects are similar to those observed in organic crystals (naphthalene etc) and which are used in crystal counters. Inorganic crystals may have certain advantages over organic crystals for certain purposes.

f. <u>PLIETH</u> (with <u>STRANSKI</u>) studied the X-ray structure of Arsenites, <u>Clauderites (see item 1)</u>, and the valence angle changes of certain <u>diphenyls, such as (C6H5)2CH2</u>, (C6H5)20, (C6H5)2S, etc.

g. MOLIERE is interested in theoretical questions in quantum mechanics and statistical mechanics. He also has under investigation the kiApproved for Release:  $2022/06/22 C00010786 Cl_h$  on heated surfaces

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 $(1000^{\circ})$ . The deposition of Sn or Ti is measured by the increase in diameter of the wire, which can be followed either by the change of resistance, or optically. Whereas the reaction is complete with every collision for SnCl4 and TiCl4 it appears that TiCl3, which forms also, does not decompose on the surface. The molecule TiCl2 is also found to be produced and decomposes readily on the surface.

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| 15. Institute                  | • | PHYSIKALISCHES INSTITUT DER FREIEN UNIVERSITAET.  |
|--------------------------------|---|---|
| Place                          |   | Berlin  |
| Director                       | : | Director of the theoretical division is Professor GUENTHER<br>LUDWIG.   |
| Date                           | : | Thursday, 28 Sep 50.  |
| Visit Conducted<br>by          | : | We visited Professor_LUDWIG in his office accompanied by Dr<br>MOLIERE of the Kaiser Wilhelm Institut.  |
| Building and<br>apparatus      |   | No report.  |
| General impress<br>and remarks |   | Professor LUDWIG is a young man who showed a rather broad interest<br>in <u>questions of statistical mechanics and in quantum electro-</u><br><u>dynamics</u> . He gave the impression of being intelligent and<br>capable. The discussion centered around recent advances, and<br>did not go extensively into Professor LUDWIG's own researches. |

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|                            |                              |           |  |
|                            | Institute                    | 1         | PHYSIKALISCHES INSTITUT DER TECHNISCHE UNIVERSITAET  |
|                            | Place                        |           | Berlin   |
|                            | Director                     | :         | Professor RAMSAUER   |
|                            | Date                         | ;         | Friday, 29 Sep 50.   |
|                            | Visit Conducted              |           |  |
|                            | ру                           | :         | Dr KRAEMER, Prof GOBRECHT.   |
|                            | Other Research<br>Workers    |           |  |
|                            | Encountered                  | :         | Dr KLUGE, assistant.   |
|                            | Building                     |           | The institute is in an enormous building with wide halls, large<br>rooms. The large lecture hall holds more than one thousand.<br>The building had been seriously damaged, and part of it completely<br>destroyed, by bombs. It was still in the process of rebuilding<br>and repair. When repair and reconditioning is finished it will<br>be an excellent building for an institute.   |
| 194                        | Equipment                    | •         | Very little apparatus was available for scientific work. There<br>was one good prism spectrograph, several ovens and the usual<br>small equipment for vacuum lines and simple electrical measure-<br>ments.  |
|                            |                              | -         | The apparatus for lecture demonstrations and for the "Praktikum"<br>appeared to be excellent. Most of the laboratory experiments<br>for the Praktikum were set up in ten identical sets, one next<br>to the other, in the large laboratory rooms. In spite of the<br>large number (200) of students taking the praktikum at the same<br>time, it appeared that there was adequate space and equipment to<br>give excellent instruction. The shop was large and spacious.   |
| :<br>-<br>-<br>-<br>-<br>- |                              | :<br>:    | We were told that the total budget for replacement of apparatus,<br>and purchase of new equipment was 150 DM per month. This figure<br>is so ridiculously low that it must put severe limitations, not only<br>on research, but also on the routine instruction.   |
|                            | General Impressi             | مە        |  |
|                            | and Remarks                  |           | We were received courteously, but somewhat frostily by Prof<br>Ramsauer. After showing us the lecture room and some really<br>amusing lecture demonstrations he turned us over to his assistant,<br>Dr Kraemer, and even thawed out enough to shake hands. The<br>laboratory appears to be several years behind in reconstruction<br>and rebuilding. The main job is, at present, to get the institute<br>in shape as a place of instruction for students. This is no minor<br>job, since this laboratory has the largest number of students of any<br>institute we have seen. In the course of our visit we met Professor<br>Gobrecht, who was very cordial and showed us the research which<br>was in progress. This research seems to be only under Dr Gobrecht's<br>direction. There was quite a lot of it for one man, but very<br>little for a building of that size. Professor Gobrecht made a<br>very good impression. He is interested and interesting. |
| -                          | Individual Resea<br>Projects | arch<br>; | a. Dr KLUGE, a bright and enthusiastic young physicist, was mainly   |

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b. Professor GOBRECHT'S main interest lies in the spectra of the rare earth salt. Before the introduction of D-Marks, he managed to buy a good spectrograph. The interest is largely in the infrared. The laboratory is too poor to buy apparatus for the detection of infra-red radiation, and therefore construct the equipment themselves.

(1) Thermocouples as detectors of infra-red radiation are being developed and constructed.

(2) Another\_detection apparatus consists of a collodion film, which is blackened on one side, and covered with vaseline on the other. If an infra-red spectral-line hits the blackened surface, the vaseline evaporates and thereby leaves a trace. This apparatus promises to work well.

c. The effect which Haxel in Goettingen called "Schnirgel effect" is here found in a different form. Metal films are produced by evaporation of the metal in vacuum onto glass plates. These films blacken a photographic plate, even if a thin sheet of collodion is interspersed.

d. <u>Single crystals of KCl of dimensions of several inches, were</u> grown by a Diplom candidate. They are going to be used in the production of a monochromator.

e. If potassium sulphate is reduced, the resultant salt is fluorescent. This is presumably due to some potassium sulphide which is formed. GOBRECHT is going to investigate this radiation.

f. The so-called "Benedix effect" in the thermal conductivity of metals was investigated and found to be non-existent, or at least under the capabilities of simple detection.

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| 17.   | Institute                                | •                                     | CHEMISCHES INSTITUT UND PHYSIKALISCH-CHEMISCHES INSTITUT   |
|---|--|---------------------------------------|--|
|   | Place                                    | · · · · · · · · · · · · · · · · · · · | Bonn   |
|   | Director                                 | :                                     | Professor HELFERICH, organic chemistry; Professor CROTH, physical chemistry, coming only this fall.  |
|   | Date                                     | :                                     | Thursday, 31 Aug 50.   |
|   | Visit Conducted<br>by                    | •                                     | Professor HELFERICH and W HANS   |
|   | Other Research<br>Workers<br>Encountered | :                                     | Professor ANTWEILER and STOMMEL  |
|   | Building                                 | :                                     | The building was badly destroyed, but has been to some extent re-<br>constructed. Up to now, physical chemistry was just an "Abteilung".<br>With the arrival of Professor GROTH from Hamburg it will become<br>an institute of its own and be located in a new building.   |
| 1. T  | Equipment                                | :                                     | The usual physical chemical equipment was in evidence in the<br>physical section. In addition there were several excellent<br>polarographs. The organic section was visited hastily and appeared<br>to have no special equipment other than that normally expected.  |
|   |  |                                       | We were told that Occupation troops had removed most of the apparatus,<br>and that practically everything had to be purchased new since the<br>war.  |
|   | General Impress<br>and Remarks           | sion<br>:                             | Professor Helferich was a kind and courteous gentleman of the old<br>school. After politely receiving us and showing us hastily through<br>a few laboratories of the organic section, he turned us over to<br>Dr W Hans, a young assistant in the physical chemical section.   |
|   |  |                                       | Hans was very young (probably under thirty), intelligent and<br>enthusiastic. The present laboratory is very small but seemed<br>to function well; the rather pleasant rooms and adequate equip-<br>ment made a good impression. The work undertaken appeared to be<br>interesting but mostly in the limited field of polarigraphy.                        |
|   |  |                                       | There-is apparently a considerable building underway.  |
| n en lan av e general anna an annan a mar   |  |                                       | One reaction of Dr Hans was interesting and probably typical of<br>his generation. He was 12 when the Nazi's came to power, and was<br>brought up in the Hitler Jugend. After a short period of study<br>he was in the Army during the war. He had evidently been<br>thoroughly indoctrinated in party theory and had accepted the<br>doctrine completely. |
| ter and the second s |  |                                       | The revelation of the Nazi atrocities was completely amazing to<br>him. He was thoroughly shocked and apparently left without any<br>resilience of political rehabilitation. He wants nothing to do<br>with politics now.  |
|   | Individual Rea                           | search                                |  |
|   | Projects                                 |                                       | Frofessor ANIWEILER is apparently largely a technician interested in<br>the construction of polarographs, and their technical applications.  |

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Investigations on the origin of the maximum in current observed with some ions at potentials just above the half wave value were being made. This maximum is accompanied by a flow of the solution around the drop electrode. The origin of this is believed to be known (see also Heidelberg - Dr Ender).

STOMMEL was preparing hydrates of the noble gases, and investigating their crystal structure. Xe<sub>6</sub>H<sub>2</sub>O is quite stable.

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| 18. | Institute :                              | PHYSIKALISCHES INSTITUT DER UNIVERSITAET  |
|-----|--|---|
|     | Place                                    | Freiburg at a second as a second or the second second second  |
|     | Director :                               | Professor GENINER   |
|     | Date                                     | Friday, 15 Sep 50.  |
|     | Visit Conducted by                       | Professor GENTNER and Peter JENSEN.   |
|     | Other Research<br>Workers<br>Encountered | MAIER, FESSLER, SMITZ, DEUTSCHMAN.  |
|     | Building                                 | The original physics laboratory with its equipment, was completely<br>destroyed by bombing. The physics institute is now in a building<br>which was constructed for some other purpose and only partially<br>destroyed. It is not very well suited for physics, and it is<br>crowded.   |
|     | Equipment                                | : The equipment is definitely poor. However, some nuclear machine<br>for the institute is, at present, under construction.  |
|     | General Impression                       |   |
|     | and Remarks                              | : Professor Gentner is certainly a very good physicist. he received<br>us very cordially. Gentner chose to go to Freiburg because it<br>is in the French occupation zone. He knows many French physicists<br>and hoped to have more contact with them in this way. This hope<br>does not seem to have materialized to a great extent. Peter<br>Jensen is a young physicist whom I knew as a child and whose<br>work is promising. |
|     |  | That not much work of great interest is being done in this<br>laboratory is due to its size and lack of equipment. This latter<br>situation will improve with the completion of the pressure van<br>der Graaf machine.  |
|     | Individual Resear<br>Projects            | ch<br>: a. GENTNER and JENSEN are mainly busy planning for the new<br>instrument. Jensen is doing some theoretical work with his<br>namesake at Heidelberg.   |
|     | •  | b. GENTNER, with the assistance of SMITL, is determining the age<br>of some beds of potassium chloride by the content of argon. This<br>is careful and meticulous work. The crucial ratio of the decay<br>of potassium into calcium to that into argon is also under<br>investigation.  |
| • ) |  | c. MAIER studies liquid crystals with Raman effect and super sound.   |
|     | -  | d. FESSLER studies X-rays.  |
|     |  | e. DEUTSCHMAN works with a Wilson cloud chamber, mainly on cosmic<br>rays. Constant recordings are going on on top of the building as<br>well as on a mountain above Freiburg to determine the relation of<br>cosmic ray intensity with solar activity.   |
|     | <br>                                     |   |

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| 19.     | Institute :                          | CHEMISCHES INSTITUT DER UNIVERSITAET.   |
|---------|--------------------------------------|---|
| · · ·   | Place :                              | Freiburg  |
|         | Director :                           | Professor STAUDINGER  |
|         | Date :                               | Friday, 15 Sep 50.  |
|         | Visit Conducted                      |   |
|         |                                      | Dr BATZER   |
|         | Other Research<br>Workers            |   |
|         | Encountered :                        | Professor STAUDINGER  |
| <u></u> | Building :                           | This rather large institute was almost completely destroyed by<br>bombing and has been rebuilt, largely by the students. There<br>was a display of pictures showing the course of reconstruction<br>in Professor Staudinger's office. The institute is obviously<br>proud of the role played by its members in the rebuilding.<br>The building appears to be adequate in size and admirably con-  |
| 지금이     |                                      | structed for a chemical laboratory, although not modern in  |
|         | Apparatus :                          | All apparatus appears to be post war, apparently little or none<br>survived the war. The impression obtained was of a sufficient<br>supply to enable the work to go on without severe limitation,<br>in contrast to the impression given by many university laboratories.<br>We visited only the high polymer part of the laboratory, and most<br>of the usual equipment for working with macromolecules seemed to<br>be present.   |
|         | General Impression                   |   |
|         | and Remarks :                        | This is undoubtedly one of the best macromolecule institutes in<br>the world, although there was some slight impression that the<br>recent very rapid advances in the US had not been followed<br>sufficiently. For instance, we were told that the Journal<br>of Chemical Physics was not available in Freiburg. Since much<br>of the recent US advance is published in this Journal, this<br>appeared to be a severe lack. Actually, MECKE, in the physical<br>chemistry institute, had the post war Journal of Chemical Physics<br>as we later found.  |
|         |                                      | Professor STAUDINGER is of retirement age, and it was clear that<br>he had not followed or understood much of the newer US concepts.  |
|         | -<br>-<br>-<br>-<br>-<br>-<br>-<br>- | There was complaint of inadequate budget, although this was less<br>evident in the laboratory than in some others. It is surprising<br>that just in this field, which has such enormous immediate<br>technical possibilities, the German industry is not willing to<br>support research in this institute. The general impression, which<br>may be hastily formed, was that the fame and reputation of the<br>institute and its director was still attracting good men and<br>enabling good work to be done in spite of a slight tendency to<br>fall behind the times due to the age of the director. |
|         | Individual Research                  |   |
|         | Projects :                           | So much work was under way that only a few special items of physical chemical nature might be singled out. Most of the work is of more organic interest.  |

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a. Light scattering experiments were being set up for the measurement of molecular weights. There was interest in the details of how the US results had been obtained. The method to be used involved a variation of wave length rather than of angle of scattering.

b. Osmotic pressure measurements, to investigate molecular weights, and deviations from perfect solution laws were conducted. Again, there were questions about the meaning of new US theories and viewpoints.

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| £V4 | Institute                 | INSTITUTE FURR PHYSIKALISCHE CHEMIE DER UNIVERSITÄRT, FREIBURG  |
|-----|---------------------------|---|
|     | Place                     | Freiburg  |
|     | Director :                | Professor R NECKE   |
|     | Dete con a constant       | Saturday, 16 Sep 50.  |
|     | Visit Conducted           |   |
|     | рд :                      | Professor R MECKE   |
|     | Other Research<br>Workers |   |
|     |                           | NACK, Private Dosant  |
|     | Building :                | The building had been almost completely destroyed by bombing and<br>had been rebuilt, largely by the students. The building was clean,<br>airy, not too crowded and adequate for the institute. |
|     | Equipment :               | Although the equipment and apparatus was far from luxurious,  |
|     |                           | where appeared to be sufficient for the work undertaken when  |
|     |                           | apparatus could be used to advantage, but it was not annawant   |
| 3   |                           | that the research was crippled by its lack.   |
|     |                           | Absorption spectrophotometers in visible, ultra-violet and infra-   |
|     |                           | red, dielectric constant measuring set was and the machane  |
|     |                           | equipment for measuring vapor pressures and simple thermodynamic properties of solutions were available.  |
|     | General Impression        |   |
|     | and Remarks :             |   |
|     |                           | A PLANDARY MICHOURA DOSSIDIY & IITTIG UDIBEDITAL DYAPASSAN MAADA  |
|     |                           | has concentrated the complete research into one, not very broad<br>field, which he is investigating carefully and thoroughly, and   |
|     |                           | 44 VA ALL BARLED, TOIS IIRIG IS THA INTAWARTIANS AF WALAAWIA.   |
|     |                           | containing on groups, which is due primarily to what is called  |
|     |                           | ayarogen conding. Spectral measurements, dielectric constant  |
|     |                           | APARALCECIUS. EDG LDETEGGYRERIA AANIIKhwia awa waaruwas ju  |
|     |                           | solutions of phenols and alcohols in solvents containing inert  |
|     |                           | groups only such as hydrocarbons, CCl, etc, and in solution with<br>each other. The work of the laboratory appears to be strictly   |
|     |                           | under the direction of Professor Necke.   |
|     | Individual Research       |   |
|     | Projects :                | The work of this laboratory is so closely coordinated that the  |
|     |                           | description of individual projects is pointlass aveant in compact   |
|     |                           | tion with the whole. A few items might be mentioned.  |
|     |                           | The shift in the OH band of solutions of phenol at different  |
|     | •                         | Concentrations and different temperatures in different solvents   |
|     |                           | Dielectric constants under the same conditions were measured.   |
|     |                           | The shift in the OH band due to the "self association" of OH<br>in mitro phenol was measured.   |
|     |                           | AN MANA PUCHOI WES REASIDED.  |

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| 21.                                   | Institute                                | : INSTITUT PUER EXPERIMENTAL THERAPIE  |
|---------------------------------------|--|--|
| · · · · · · · · · · · · · · · · · · · | Place                                    | : Freiburg   |
|                                       | Director                                 | : Dr Peter MARQUARDT   |
|                                       | Date                                     | : Monday, 18 Sep 50.   |
| ', , , , , , , , , , , , , , ,        | Visit Conducted<br>by                    | : Dr KARQUARDT   |
|                                       | Other Research<br>Vorkers<br>Encountered | : Dr PHILLIPS.   |
|                                       | Building                                 | : The institute consists mainly of one large double room in the clinic and the director's office.  |
|                                       | Equipment ·                              | : Apparatus for recording amplitude and frequency of frog<br>heart beats in vitro, operating tables for small animals, etc.<br>The equipment appeared to be adequate for the work of this small<br>institute.  |
|                                       | General Impressi                         |  |
|                                       | and Remarks                              | : The visit to this institute was occasioned largely by personal<br>friendship with the director, but also because of its work with<br>digitalis. Radioactive digitalis is now available from the<br>Argonne National Laboratory in Chicago, and would be extremely<br>useful to the work of this institute. |
|                                       |  | The institute gives the impression of consisting of a small group of cooperative and enthusiastic workers.   |
|                                       | Individual Resea                         |  |
|                                       | Projects                                 | : a. A new method of standardizing digitalis preparations.   |

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| 22,           | Institute                                | :               | INSTITUT FUR PHYSIKALISCHE CHEMIE DER TECHNISCHE BOCESCHULE,<br>STUTTMART.   |
|---------------|--|-----------------|--|
| <br>t         | Place                                    | :               | Stuttgart  |
|               | Director                                 | :               | Professor GRUBE  |
| 1             | Date                                     | :               | Tuesday, 19 Sep 50   |
|               | Visit Conducted<br>by                    | :               | Dr FLAD  |
|               | Other Research<br>Workers<br>Encountered | _               |  |
|               | BICOUNTERED                              | :               | Doctors OEERINGER, SCHMID, HOERNLE.  |
|               | Building                                 | :               | The building had been damaged but had been completely repaired<br>and rebuilt. It was adequate in size and well suited for research.   |
| 117 - 1<br>1  | Equipment                                | :               | The budget was poor, and there was mention of the restriction<br>of research due to this. One problem was stopped because the<br>budget could not stand the 300 DM per month cost for the electricity<br>to keep a Tauman oven going for the research. However, there<br>seemed to be the usual material necessary for physical chemical<br>work, including quite a bit of special equipment for high  |
|               | General Impressi<br>and Remarks          | <u></u> מס<br>: | The high temperature thermodynamic work in this laboratory seemed<br>to be good. There was apparently a thorough understanding of the<br>thermodynamics involved, and a good sense of how to carry out<br>experiments. The work in other fields was not so impressive.<br>This was possibly merely an impression due to the special interests<br>of our guide, Dr Flad. The high temperature work was in the field<br>of equilibrium pressures of oxides, phase diagrams, melting points<br>and wapor pressures. |
|               | Individual Resear                        | rch             |  |
|               | Projects                                 | 1               | a. HOFRNLE prepared SiO in an oven containing Si and SiO <sub>2</sub> ,<br>measuring the weight effused through a known opening.   |
|               |  |                 | b. FLAD measured the dissociation pressure of $Cr_2O_3$ in an $Al_2O_3$ tube at 1000° to 1400°C by observing the partial pressure of H <sub>2</sub> passed through the tube, which is necessary to prevent reduction.  |
| <b>4</b><br>• |  | ,               | c. OEHRINGER and SCHOID had an impressive ultrasonic apparatus,<br>but a less impressive problem.  |
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| 23.          | Institute                         | •       | MAX FLANCK INSTITUT FUER METALKUENDE   |   |
|--------------|-----------------------------------|---------|--|---|
| ·····        | Place                             | 1       | Stuttgart  |   |
|              | Director                          | :       | Professor MP GEBHARD   |   |
|              | Date                              | :       | Tuesday, 19 Sep 50.  |   |
|              | Visit Conducted<br>by             | :       | Professor GEBEARD.   |   |
|              | Building                          | :       | New, clean, roomy, and apparently well suited for the work.  | ÷ |
|              | Equipment                         | :       | Apparently everything that was wanted was available.<br>The ovens and smelting rooms, which seemed to be planned<br>on a rather lavish_scale, were not yet completely set up.  |   |
| - 12<br>- 12 | General Impression<br>and Remarks | n<br>:  | Professor Gebhard was courteous and willing to show everything,<br>but very stiff. All laboratories were exhibited and the work<br>described, but no other workers were introduced. Although the<br>experiments were described, the scientific reason for carrying<br>out the work was not mentioned. It was not clear whether the<br>experiments were performed with random aim, or whether there<br>actually was a clear program behind them. One had the impression<br>that the technical execution of the experiments was probably<br>excellent. |   |
|              | Individual Resear<br>Problems     | ch<br>: |  |   |
|              |                                   |         |  |   |

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| 24. | Institute :         | PHYSIKALISCHES INSTITUT DER TECHNISCHEN HOCHSCHULE   |
|-----|---------------------|--|
|     | Place :             | Stuttgart  |
|     | Director :          | Professor REGENER  |
|     | Date :              | Wednesday, 20 Sep 50.  |
|     | Visit Conducted     |  |
|     |                     | Professor GLASER and Dipl phys MAGUN.  |
|     | Building :          | The building had suffered some destruction, but rebuilding is complete.  |
|     | Equipment :         | Modest, shop-built_equipment seemed adequate, but difficulties in purchase of new items were mentioned.  |
|     | General Impressions |  |
|     | -                   | This laboratory has an offshoot near the Bodensee for cosmic<br>ray observation, and also connections with Hechingen. Evidently<br>the main interest lies out of town. To some degree, the Stuttgart<br>institute seems to be a service laboratory for the institute<br>near the Bodensee.   |
| •   |                     |  |
|     |                     | The research work is still very much in the stage of reconstruc-<br>tion. Most problems were begun, with no results available yet.<br>The building was very crowded. Eighty students are present in<br>the advanced praktikum with adequate room for about 20.   |
|     |                     | and second beaming and bear and the source of the source o |
|     | Individual Research |  |
|     | Problems :          | a. Investigation of the behavior of photographic plates; the fading<br>of particle tracks, etc. Tracks of protons in plates were obtained<br>by neutron irradiation.   |
|     |                     | b. Construction_of_reliable_counting circuits for_constant   |
|     |                     | investigation of cosmic rays. The purpose is to further  |
|     |                     | investigate the connection between cosmic ray activity and<br>sun spots.   |
|     |                     | c. Construction of a counter for the neutron component of cosmic   |
|     |                     | radiation.   |
|     |                     | d. In more detail, the work of GLASER on measurement of the  |
|     |                     | behavior of a high energy spark. The temperature goes to about   |
|     |                     | 30,000°. Current versus time, as well as luminescence versus   |
|     |                     | time, are measured. Times of 10 <sup>-8</sup> seconds can be resolved.   |
|     |                     | In the beginning, the spectrum is continuous. In the later   |
|     | •                   | stages, the Argon lines appear. The spectrum in the beginning<br>is due to free-free transitions.  |
|     |                     | e. Study of electrets. Question: Are the surface layers impurities, or sprayed charges, or dipoles?  |
|     |                     | ambor vares) or shrater end Rest of arborest   |
|     |                     |  |
|     |                     |  |
|     |                     |  |
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| Institute                                | : INSTITUT FUER ANGEWANDTE UND THEORETISCHE PHYSIK.   |
|--|---|
| Place                                    | : Stuttgart.  |
| Director                                 | : Professor DEHLINGER and Professor FUES.   |
| Date                                     | : Wednesday, 20 Sep_50.   |
| Visit Conducted<br>by                    | : Professors DEHLINGER and KOCHENDOERFER.   |
| Other Research<br>Workers<br>Encountered | : Doctors ROEHM, JAUCEMANN. We met Professor FUES in Bad Nauheim.   |
| Building                                 | : The institute is in a comparatively few rooms, which are<br>pleasant and well suited for research. The rooms are slightly<br>crowded, but not objectionably so.   |
| Equipment                                | : While not lavish, there appears to be enough for the type of experimental work undertaken.  |
| General Impress<br>and Remarks           | ion<br>: This is an institute entirely directed toward the theoretical<br>study of metals. The theoretical work appears to be excellent.<br>The relatively small amount of experimental work is purely an<br>outgrowth of the theoretical investigations. The experiments are<br>well thought out, clean cut and neat, and although technically<br>simple, are all directed to give a clear answer to a direct<br>question. The institute is excellent. |
| Individual Rese                          | arch  |
| Projects                                 | : a. DEHLINGER, ROEHM, KOCHENDOERFER are interested in the<br>plasticity of metals, dislocations, and their role in slip.<br>By clean experimentation, the slip hardening of aluminum and<br>other_single crystals was found to be linear in the strain.<br>Good theoretical work somewhat salted with experiments.   |
|  | b. Semi-conductors. This is the work of FUES. We saw JAUCHMANN.<br>Hall effects, etc, are being measured. We did not hear too much<br>about this part since Fues, the soul of the work, was out of  |
|  | Director<br>Date<br>Visit Conducted<br>by<br>Other Research<br>Workers<br>Encountered<br>Building<br>Equipment<br>General Impress<br>and Remarks  |

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| 26. II      | nstitute                | : KAISER WILHELM INSTITUT FUER ROENTGEN FORSCHUNG,   |
|-------------|-------------------------|--|
| P]          | lace                    | : Stuttgart.   |
| - <b>Di</b> | rector                  | : Professor GLOCKER,   |
|             | te                      | : Wednesday, 20 Sep_50.  |
| 2 <b>V1</b> | sit Conducted           | · · · · · ·  |
|             | by a s                  | : Professor DEHLINGER.   |
| Ot1         | her Research<br>forkers |  |
|             | Incountered             | Professor RICHTER.   |
| Bui         | lđing                   | The building is either new or completely rebuilt and is very satisfactory for the purpose.   |
| Equ         | ipment :                |  |
| Gene        | ral Impression          | strength of materials.   |
| and         | i Remarks :             | The institute was just dolled up to be "shown" since a 30-year<br>celebration was in progress. This gave the impression, which was<br>probably superficial, that the institute consisted exclusively<br>of highly polished apparatus which was never used. The collec-<br>importance obtained with the equipment. The exception to this<br>impression is the work of Professor RICHTER on electron<br>diffraction of thin films, which was excellent pure science. |
| India       | idual Research          | excertent pure science.  |
| Pro         | blems :                 | RICHTER: The amorphous films of some metals, As, Sb, Ge, studied<br>by electron diffraction show the close range order of the crystal,<br>not the liquid. The more distant maxima in the F <sub>2</sub> (R) curves<br>correspond to those of disordered_tetrahedra.  |

| 27.       | Institute                                | : INSTITUT FUER PHYSIKALISCHE CHEMIE DER UNIVERSITAET, TUEBINGEN.   |
|-----------|--|---|
|           | Place                                    | : Tuebingen.  |
|           | Director                                 | : Professor KORTUEM.  |
| · · · · · | Date                                     | : Thursday, 21 Sep 50.  |
| -<br>     | Visit Conducted by                       | : Professor KORTUEM and Mrs KORTUEN, who is also a physical chemist.  |
|           | Other Research<br>Workers<br>Encountered |   |
|           | ··· ··· ··· ··· ·· · · · · · · · · · ·   | : Dr BINECK, LUCK, DREESEN.   |
|           | Building                                 | : The building was not destroyed during the war, but is old, and<br>has not been remodelled or redecorated. It is exceedingly dark,<br>dingy and small. The institute is cramped into a few basement<br>rooms. It is hard to see how there can be enough room for<br>students during the semester. However, every corner is well<br>utilized for experimental work. |
| 지를        | Equipment                                | : Occupation troops had removed most of the old equipment. Knough<br>spectrographic and general physical chemical apparatus was avail-<br>able for the work undertaken, but the equipment is far from lavish.   |
|           | General Impression                       |   |
| •         | and Remarks                              | : The dinginess of the building was in marked contrast to the<br>enthusiastic warmth of our reception by the Kortuens. Both are<br>obviously capable and interested scientists. They utilize the<br>limited facilities of the institute to the utmost, and appear<br>to do excellent and interesting work in spite of very unfavorable<br>conditions.               |
|           | ·  | This laboratory deserves much better support. The contrast with<br>the luxury of Butenant's KWI institute is appalling. Both<br>Kortuens impressed us highly by their scientific ability and<br>political reliability. Their work is chiefly in the absorption<br>spectra of solutions.   |
|           | Individual Researc                       | ۵.  |
|           | Projects                                 | : a Dr-BINECK,  |
|           | •.                                       | Spectrum, conductivity, and dielectric constant of solutions<br>of metalo-organic compounds in ether are measured. Examples<br>are Na_C (C <sub>6</sub> H <sub>5</sub> ) and Li C <sub>6</sub> H <sub>5</sub> . One of the chief problems is<br>that of synthesis of the pure compound.   |
|           |  | b. Professor KORTUEM.   |
|           |  | Some organic compounds develop new lower energy absorption<br>bands upon rise in temperature. They associate these with a<br>low lying excited triplet state, and intend to investigate this,<br>among other ways, by measuring the magnetic susceptibility.  |
|           |  | C. KORTUEM.   |
|           |  | The absorption spectra of crystals can be obtained by observing<br>the spectrum found in the reflection of continuous light from a<br>powder of crystals. The reflected spectrum is independent of<br>crystal size below a certain fineness of powder. The method<br>appears to work, and is the only satisfactory method when large<br>crystals cannot be grown.   |
|           |  |   |

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a. LUCK.

The dependence of the absorption of monochromatic light by I<sub>2</sub> vapor on tube length and pressure is determined. The monochromatic light has sufficient spectral breadth to cover many I<sub>2</sub> rotation lines. The results are interpretable in terms of pressure broadening. The effect of foreign gases will be studied.

e. DREESEN.

Certain thermochemical quantities, including vapor pressures of solutions were studied.

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| 28,          | Institute                       | :    | KWI FOR BIOCHEMISTRY.   |
|--------------|---------------------------------|------|---|
|              | Place                           | :    | Tuebingen.  |
|              | Director                        | :    | Professor BUTENANT.   |
|              | Date                            | :    | Thursday, 21 Sep 50.  |
|              | Visit Conducted<br>by           | :    | Professor KORTUEM and Dr SCHRAMM.   |
|              | Building                        | :    | The building is brand new, not very large, but exceedingly pleasant and well suited.  |
|              | Equipment                       | :    | Everything that is needed seems to be present. There is an excellent ultra centrifuge with optical equipment, and a diffusion cell.   |
| 1.14<br>1.14 | General Impressi<br>and Remarks | on : | The work of this laboratory is somewhat out of our line, but<br>Professor Kortuem wanted us to see the showplace of Tuebingen.<br>The laboratory is a beautiful building, built to the specifications<br>of the laboratory staff. The contrast with the university<br>laboratories is striking, and one cannot help feeling that it is<br>unsound.  |
|              |                                 |      | This laboratory was originally in Berlin. Most of the<br>equipment was removed to Tuebingen before bombs got the<br>building in Berlin. Later, a good deal of equipment was<br>moved to a village. From there it was stolen by some French<br>trucks, but some of it was later mysteriously retrieved. Equip-<br>ment left in Tuebingen was removed by the French. However,<br>there has been ample replacement.<br>Professor Butenant was away. Most of the history of the laboratory<br>came from his wife, who is a school friend of mine. Butenant was<br>an early member of the Nazi Party. He is said to hav. a leftish<br>leaning and a great deal of resentment against the denazification<br>procedures. |

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| 29. Institute :                            | PHYSIKALISCHES INSTITUT DER UNIVERSITAET.  |
| Place :                                    | Tuebingen.   |
| Director :                                 | Professor KOSSEL.  |
| markan waarm Date maa mar maara ;          | Thursday, 21 Sep 50.   |
| Visit Conducted<br>by                      | Professor BRAUNBECK (theoretical physics) and Dr MENZEL.   |
| Other Research<br>Workers<br>Encountered : | Miss ANKFR, a US PhD_student.  |
|  |  |
| Building :                                 | The building was old, and had not been destroyed by bombing.<br>It had also not been remodeled. Although adequate in space,<br>and not a rubble pile, it was dark and dingy, and not very<br>satisfactory. Some painting is now being done.  |
| Equipment ;                                | Much of the equipment had been lost, largely by removal by<br>the French in the early part of the occupation. Considerable<br>replacement has been made. There exists a small van der<br>Graaf machine. Various X-ray and electron beam set-ups<br>vere shown.   |
| General Impression                         |  |
| and Remarks :                              | The general impression obtained of the institute was definitely<br>poor. The problems attacked seemed to be basically rather un-<br>interesting, and to lack any general aim. The range of interest<br>was fairly narrow. It is conceivable that this impression may<br>be subjective and due to the type of guidance. An objective<br>fact, however, stood out. The laboratory has a great deal of<br>empty space. There are more, and better, empty rooms in the<br>cellar than Professor Kortuem has for the whole department<br>of Physical Chemistry in which excellent work is done. |
| •••  | We heard later from Haxel that the laboratory was entirely<br>different when Geiger had it. The "praktikum" was then in the<br>basement, and the entire remaining space was filled with research<br>work. At present, the "praktikum" is spread over most of the<br>laboratory, and research curtailed. Professor KOSSEL is over 60<br>years of age and probably not very active.  |
| Individual Research                        |  |
| Projects :                                 | a. Various instruments for electron defraction. The main<br>pride was an apparatus which puts the sample (mica) into the focus<br>of a convergent electron beam. The patterns obtained depend on<br>the thickness of the sample.   |
| х<br>                                      | b. An X-ray apparatus used for measuring, with great accuracy,<br>the lattice dimensions of crystals. Some refinement of align-<br>ment are present compared to previous similar machines. Only a<br>small range of temperature is contemplated, (PhD thesis, Miss<br>ANNER, US national.)   |
|  | c. Mainly the work of MENZEL and a PhD student - The study of single crystals of metals. The single crystals are worked into spheres. For copper, this can be done with a lathe on a single  |

spheres. For copper, this can be done with a lathe on a single crystal of Release: 2022/06/22 C00010786 crystal structure,

TAIP CONGACTES Ъγ

Other Research Workers Encountered

Building

: The building was old, and had not been destroyed by bombing. It had also not been remodeled. Although adequate in space, and not a rubble pile, it was dark and dingy, and not very satisfactory. Some painting is now being done.

Approved for Release: 2022/06/22 C00010786 Dr MENZEL.

: Professor BRAINBECK (theoretical

: Miss ANKER, a US PhD student.

Equipment

: Much of the equipment had been lost, largely by removal by the French in the early part of the occupation. Considerable replacement has been made. There exists a small van der Graaf machine. Various X-ray and electron beam set-ups were shown.

### General Impression and Remarks

The general impression obtained of the institute was definitely poor. The problems attacked seemed to be basically rather uninteresting, and to lack any general aim. The range of interest was fairly narrow. It is conceivable that this impression may be subjective and due to the type of guidance. An objective fact, however, stood out. The laboratory has a great deal of empty space. There are more, and better, empty rooms in the cellar than Professor Kortuem has for the whole department of Physical Chemistry in which excellent work is done,

We heard later from Haxel that the laboratory was entirely different when Geiger had it. The "praktikum" was then in the basement, and the entire remaining space was filled with research\_ work.—At-present, the "praktikum" is spread over most of the laboratory, and research curtailed. Professor KOSSEL is over 60 years of age and probably not very active.

### Individual Research

Projects

a. Various instruments for electron defraction. The main pride was an apparatus which puts the sample (mica) into the focus of a convergent electron beam. The patterns obtained depend on the thickness of the sample.

b. An X-ray apparatus used for measuring, with great accuracy, the lattice dimensions of crystals. Some refinement of alignment are present compared to previous similar machines. Only a small range of temperature is contemplated. (PhD thesis, Miss ANKER, US national.)

c. Mainly the work of MENZEL and a PhD student - The study of single crystals of metals. The single crystals are worked into spheres. For copper, this can be done with a lathe on a single crystal. For zinc, such work destroys the crystal structure, and the crystals must be grown directly in a spherical vessel. Chemical etching produces a microscopic structure showing plateaus, or the tendency to form a surface of definite crystal planes. Evaporation in vacuum shows the same tendency.

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30. Institute INSTITUT FUER PHYSIKALISCHE CHEMIE DER TECHNISCHE HOCESCHULE, : KARLSRUHE. Place : Karlsruhe. Director : Professor GUENTHER. Date : Friday, 22 Sep 50. Visit Conducted by : Dr Hans SIEMONSEN. Other Research Workers Encountered : Dr GEBERT, Assistant - ultrasonics. Building : The building is satisfactorily large. It suffered severe damage during the war and rebuilding is still not quite complete. In rebuilding, some basement rooms in a court with overhead lighting make excellent praktikum laboratories. The rooms of the building are generally pleasant, light and as yet not completely occupied. Equipment : Most apparatus was lost during the war. Replacements seem to\_ be adequate for the work, but as usual it appears that the budget is such that the problems which can be worked on are somewhat limited by the necessity of avoiding expensive equipment. The usual electrochemical equipment, calorimetric equipment, and a few set ups for producing ultrasonic\_waves were available. Some spectroscopic equipment was there. General Impression. and Remarks : . The institute gave a somewhat empty impression. This was probably occasioned more by the fact that it has but recently become habitable, rather than because of lack of ideas for problems or lack of students. On the other hand, with the exception of Dr SIEMONSEN's own problem it was not quite evident that problems of real scientific importance were being attacked with a clear end in view. The problems shown to us were diversified. Possibly\_\_\_\_\_ this impression was only due to some lack of interest of our guide, Dr SIEMONSEN, rather than an inherent lack of interest of the problem. Individual Research : a. The spectrum of the chemiluminescence of the Grignard reagent Projects under oxidation by gaseous oxygen was under investigation. b. The oxidation or decomposition of certain organic molecules induced by ultrasonic waves in water solution. The value of this. problem was not clear. The decomposition is caused by  $H_2O_2$  formed by cavitation of dissolved gas in the water. (Gebert). c. Overvoltage of hydrogen on iron. d. SIEMONSEN's work was the experimental direct calorimetric measurement of the heat of reaction of chlorine with metals. An iron bomb calorimeter was used. This work was tied up with the available entropy data from US sources and used for the computation of chemical equilibria. SIEMONSEN impressed me

as able, and as knowing what he was doing and why.

|       |                                       |                                      | •        | - 40 -  |
|-------|---------------------------------------|--------------------------------------|----------|---|
|       | 31. Ins                               | titute                               | :        | PHYSIKALISCHES INSTITUT DER TECHNISCHES HOCHSCHULE.   |
| -<br> | Pla                                   | ce                                   | :        | Karlsruhe.  |
|       | Dir                                   | ector                                | :        | Professor GERTESEN.   |
|       | Dat                                   | e                                    | :        | Friday, 22 Sep 50.  |
|       |                                       | it Conducted<br>y                    | :        | Professor GERTESEN.   |
| -     | ¥                                     | er Research<br>orkers<br>incountered | :        | M POLLERMAN.  |
|       | Bui                                   | lding                                | :        | The old physics building is practically completely demolished   |
| ÷     | Equ                                   | ipment :                             | •        | On German university_standards, the equipment is very good.<br>Professor GERTHSEN was allotted a fairly generous sum of<br>money to start the laboratory. However, his annual budget in<br>the future is not so adequate.   |
|       | Ger                                   | eral Impressi                        |          |   |
| •     | 8                                     | and Remarks                          | <b>.</b> | It is amazing that so much research can be started in one year.<br>Thirty-five different pieces of work are now being done. A<br>conscientious attempt is made to vary the lines of research.<br>Professor GERTHSEN seems to be an excellent laboratory director.<br>Evidently, he used to be a nuclear physicist. He said, "We have<br>now changed our line of work". When we pointed out that work in<br>nuclear physics was, after all, not forbidden, he remarked that<br>he hated to disk favors. Professor GERTHSEN is a student and<br>ardent admirer of the late Professor Geiger. He feels very bitter |
|       |                                       | •<br>•<br>•<br>•                     |          | about the vay in which Professor Geiger perished in Berlin. Mrs<br>Geiger lives in extreme poverty. He feels that some assistance<br>should be given to the wife of a man to whom nuclear physics<br>owes so much. Professor GERTHSEN made an excellent guide. With<br>each project, he discussed first the purpose and ultimate end of<br>the experiment. In each room, there was on the wall a careful<br>drawing of the experimental set up.   |
|       | Ind                                   | lividual Resea                       | rch -    |   |
|       | ]<br>:                                | Projects                             | :        | a. The laboratory studies many problems involving <u>cathode ray</u><br><u>tubes</u> . There was one amusing method of increasing the voltage of<br>positive rays by a factor three; it depends on the fact that, with<br>residual gas in the tube, H ions may regain, and later lose, an<br>electron. While neutral, they can pass a gap in which a charged<br>ion would lose its energy.  |
|       |                                       | :                                    |          | b. The laboratory contains a van der Graaf machine, analogous<br>to the one in Tuebingen.   |
|       | · · · · · · · · · · · · · · · · · · · |                                      |          | c. <u>Measurements of adsorption of oxygen and hydrogen on nickel</u> ,<br>at varying temperatures, are studied.  |
| -     | · · · · · · · · · · · · · · · · · · · |                                      |          |   |

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d. The behavior of quartz fiber manometers is studied in detail. A thin plate of mica is attached to the quartz fiber, and the vibrations parallel to and at right angles to the plate investigated. The net result is that the colliding gas particles do not get into translational equilibrium with the plate at normal incidence but do in parallel incidence (for thermal equilibrium, the accommodation coefficient is smaller than 1). These investigations make possible the construction of a quartz fiber manometer as an absolute instrument.

e. The process in the Wilson chamber is studied by h. POLLERMAN. A burst of cathode rays enters the chamber. An electric field induces migration of the columns of positive and negative ions. The velocity of motion is measured, the increase in ionic radius found. For the negative columns, the formation of visible droplets occurs at one definite supersaturation, or extent of expansion of the chamber. The positive column seems to consist of two different ion types. These ions have the same mobility, but form droplets at different degrees of supersaturation. The reason for the effect is as yet unexplained.

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| 32. Institute                          | : PHYSIKALISCH-CHEMISCHES INSTITUT DER UNIVERSITAET HEIDELBERG.  |
|--|--|
| Place                                  | : Reidelberg.  |
| Director                               | : Professor Klaus SCHAEFFER.   |
| Date                                   | : Saturday, 23 Sep 50.   |
| Visit Conducted                        |  |
| <b>L</b>                               | Professor SCHAFFFER.   |
| Other Research<br>Workers              |  |
| Encountered                            | Dr Fritz ENDER, Assistant (Polarigraphy).  |
|  | Mr_Rudolf NITSCHE, student (Accommodation Coefficients).   |
| Building                               | The institute is housed in the former residence of Bunsen. It<br>is modestly small, not too well suited to scientific work, but has<br>been kept in moderately good condition. When students are en-<br>rolled in the "Praktikum", the institute must be severely crowded.<br>Lighting is poor, but not impossible.  |
| Apparatus :                            | As usual, the apparatus is somewhat inadequate, and the choice<br>of problems appears to be somewhat influenced by the modest<br>budget. What was there was well used. The apparatus consisted<br>chiefly of glass vacuum set ups, precise electrical measuring<br>devices for direct current or low frequency alternating current,<br>and polarigraphs.   |
| General Impression                     |  |
| and Remarks :                          | is probably an unusually good teacher. He vas_cordial and anxious<br>to show his work, and explained its significance vell. The work<br>in the laboratory appeared to be excellent and reasonably vell<br>chosen, although possibly not highly inspired.   |
|  | Professor_SCHAEFFER's main interest is in the accommodation  |
|  | coefficient of gaseous molecules on metal surfaces. The  |
|  | necessary data seem to be carefully compiled, and one has the impression of considerable experimental ingenuity in devising methods of obtaining quantities differentiated and the set of t |
| •                                      | difficult to measure directly.   |
|  | On my request to meet the best students, he introduced Mr Rudolf   |
|  | Nitsche, who impressed me as thoroughly capable and probably an unusual doctorant. He will take his degree shortly.  |
|  | Professor SCHAEPFER's Assistant Im Prite Date  |
|  | crippled, but impressed me as unusually intelligent. His main<br>interest seemed to be in the field of polarigraphy but he shows   |
|  | a rather wide understanding. This man is probably a very capable   |
| Individual Research                    | · · ·  |
| Projects :                             | 8. Direct messurement of an and  |
| •                                      | accommodation coefficient.   |
| ······································ | A vire, temperature determined by electrical resistance, is heated<br>in the axial center of a concentric thermostated glass cylinder.<br>The gas pressure is $10^{-3}$ to $10^{-2}$ mm Hg. Temperature difference is<br>about $20^{\circ}$ C, and temperatures is $10^{-3}$ to $10^{-2}$ mm Hg.   |
|  | THE WEY AND A VERICAL CONTRACTOR AND TANKED AND ALL LALL ANALY   |
|  | The Approved for Release: 2022/06/22 C00010786uum is then compared   |

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Visit Conducted by

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Other Research Workers Encountered

: Dr Fritz ENDER, Assistant (Polarigraphy).

Mr Rudolf NITSCHE, student (Accommodation Coefficients).

Building

The institute is housed in the former residence of Bunsen. It is modestly small, not too well suited to scientific work, but has been kept in moderately good condition. When students are enrolled in the "Praktikum", the institute must be severely crowded. Lighting is poor, but not impossible.

Apparatus

: As usual, the apparatus is somewhat inadequate, and the choice of problems appears to be somewhat influenced by the modest budget. What was there was well used. The apparatus consisted chiefly of glass vacuum set ups, precise electrical measuring devices for direct current or low frequency alternating current, and polarigraphs.

## General Impression and Remarks

Professor SCHAEFFER appears to be intelligent and capable. He is probably an unusually good teacher. He was cordial and anxious to show his work, and explained its significance well. The work in the laboratory appeared to be excellent and reasonably well chosen, although possibly not highly inspired.

Professor SCHARFFER's main interest is in the accommodation coefficient of gaseous molecules on metal surfaces. The necessary data seem to be carefully compiled, and one has the impression of considerable experimental ingenuity in devising methods of obtaining quantities difficult to measure directly.

On my request to meet the best students, he introduced Mr Rudolf <u>Nitsche, who impressed me as thoroughly capable and probably an</u> unusual doctorant. He will take his degree shortly.

Professor SCHAEFFIR's assistant, Dr Fritz Ender, was severely crippled, but impressed me as unusually intelligent. His main interest seemed to be in the field of polarigraphy but he shows a rather wide understanding. This man is probably a very capable scientist.

## Individual Research

Projects

: a. Direct measurement of accommodation coefficient.

A wire, temperature determined by electrical resistance, is heated in the axial center of a concentric thermostated glass cylinder. The gas pressure is 10<sup>-3</sup> to 10<sup>-2</sup> nm Hg. Temperature difference is about 20<sup>o</sup>C. and temperatures vary from liquid air to plus 300<sup>o</sup>C. The energy loss of the wire in gas and vacuum is then compared.

The heat loss due to the gas can be written as  $Q = kpx (C_V + 3R/2)$ where k is a calculable constant, x the accommodation coefficient. This is a standard method.

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#### b. Comparative method determining X.

By adjusting  $P_a$  and  $P_o$  for gases a and b the Q can be made identical for two gases. By then measuring the heat transferred from a heated strip to a second wire, which is proportional to  $x^2$ , the individual ratio of x's in the two gases can be determined. From this the heat capacity can be determined if it is unknown for one gas.

# c. Determination of the time of adsorption.

The course of pressure with time when gas flows into an evacuated space through a long straight capillary is determined. The same measurement is made with a wire in the capillary. From the difference the average time spent on the capillary surface can be computed.

d. Polarigraph.

Dr ENDER is investigating the overvoltage obtained at the end of the rirst rise. This is known to be connected with currents in the electrolyte surrounding the forming mercury droplet. Ender is convinced that the effect is primarily due to the inhomogeneity in the electric field at the drop produced by the anode. He apparently has very satisfactory experimental confirmation of this.

EMPER has also investigated the difference in resonance energies in various aromatic acids by observing the difference in half wave potentials.

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S. S. A. STICK COMMENT

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|---------------------------------------|--------------------------------------|---|---|
| 33.                                   | Institute                            | 1 and 2. PHYSIKALISCHES INSTITUT.   | -Burnson Ortfold  |
|                                       | Place                                | Heidelberg.   | and set of the set of |
| · · · · · · · · · · · · · · · · · · · | Directors :                          | Professor W BOTHE and Professor HAXEL.  |   |
|                                       | Date                                 | Saturday, 23 Sep 50.  |   |
|                                       | Visit Conducted                      |   |   |
|                                       | рд ;                                 | Professor BOTHE, HAXEL and MAIER-LEIBNITZ.  |   |
|                                       | Other Research<br>Workers            |   |   |
|                                       | Encountered :                        | One assistant of Professor JENSEN - JENSEN (theoretical physics)<br>was absent. He was later seen in Hamburg.   |   |
|                                       | Building :                           | The building, which is large and spacious and was not_bombed, is,<br>at_present, undergoing a thorough reconstruction, since Professor<br>Haxel has_just_arrived, and space for a second institute is being<br>arranged for him. Consequently, not very much could be seen.   |   |
| · · · ·                               | Equipment :                          | The equipment of this laboratory is quite satisfactory for the<br>standards of a German university. This is probably due to its<br>close alliance with the Kaiser Wilhelm Institut for medical<br>research. (See below.)  | -   |
| -                                     | General Impressions<br>and Remarks : | We were most cordially received by Professor BOTHE, HAXEL, and<br>MALER-LEIBNITZ. We had already encountered Haxel and Maier-<br>Leibnitz is an old acquaintance. One received the impression<br>of a lively, well conducted laboratory, with excellent cooperation<br>of the members. Professor Bothe is an outstanding personality,<br>and Haxel & younger man of great promise. The combination of these<br>two men with the theoretician Jensen gives promise for excellent<br>progress.<br>This institute, with the KWI in Heidelberg, is almost the only<br>place in Germany where nuclear physics is extensively pursued,<br>and where relatively big machines are available. Much good work<br>on this subject has come out of this laboratory in the past. |   |
|                                       | Individual Research                  |   |   |
|                                       | Projects :                           | <ul> <li>a. <u>MAIRR-LEIBNITZ</u> works with a cloud chamber in a magnetic field<br/>and <u>investigates the scattering of positrons on electrons.</u> Some<br/>very beautiful photographs were obtained. One shows multiple<br/>scattering of the scattered electron. Due to the magnetic field,<br/>one can distinguish between the positron and the electron. One<br/>plate showed the annihilation of a positron.</li> <li>b. Professor BOTHE investigates the scattering of electrons on<br/>nuclei. This was first done with a simple apparatus in the physics<br/>laboratory, and is now continued with the wan der Graaf apparatus</li> </ul>   |   |
|                                       |                                      | <ul> <li>at the ANI. It appears that the scattering formula by Mott is not in agreement with the careful experiments.</li> <li>c. <u>Professor BOTHE's cosmic ray work is exceedingly interesting</u>. In the laboratory in the cellar of the building, showers are</li> </ul>  |   |
|                                       |                                      | intensity versus thickness of lead has three maxima, at 3, 16 and<br>25 cm of lead  | -   |
| ······                                | ·····                                | Both Approved for Release: 2022/06/22 C00010786ably of only 2 particles.  |   |

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Ъy : Professor BOWER TAYLT OF Approved for Release: 2022/06/22 C00010786 Other Research Workers Encountered : One assistant of Professor JENSEN - JENSEN (theoretical physics) was absent. He was later seen in Hamburg. Building : The building, which is large and spacious and was not bombed, is, at present, undergoing a thorough reconstruction, since Professor Haxel has just arrived, and space for a second institute is being arranged for him. Consequently, not very much could be seen. : The equipment of this laboratory is quite satisfactory for the Equipment standards of a German university. This is probably due to its close alliance with the Kaiser Wilhelm Institut for medical research. (See below.) General Impressions and Remarks : We were most cordially received by Professor BOTHE, HAXEL, and MALER-LEIBNITZ. We had already encountered Haxel and Maier-Leibnitz is an old acquaintance. One received the impression of a lively, well conducted laboratory, with excellent cooperation of the members. Professor Bothe is an outstanding personality, and Haxel a younger man of great promise. The combination of these two men with the theoretician Jensen gives promise for excellent progress. This institute, with the KWI in Heidelberg, is almost the only place in Germany where nuclear physics is extensively pursued, and where relatively big machines are available. Much good work on this subject has come out of this laboratory in the past. Individual Research Projects : a. MAIER-LEIBNITZ works with a cloud chamber in a magnetic field and investigates the scattering of positrons on electrons. Some very beautiful photographs were obtained. One shows multiple scattering of the scattered electron. Due to the magnetic field, one can distinguish between the positron and the electron. One plate showed the annihilation of a positron. b. Professor BOTHE investigates the scattering of electrons on nuclei. This was first done with a simple apparatus in the physics laboratory, and is now continued with the van der Graaf apparatus at the KWI. It appears that the scattering formula by Mott is not in agreement with the careful experiments. c. Professor BOTHE's cosmic ray work is exceedingly interesting. In the laboratory in the cellar of the building, showers are produced in various thicknesses of lead. It appears that the shower intensity versus thickness of lead has three maxima, at 3, 16 and 25 cm of lead. The showers at 16 and 25 cm were investigated further. Both are exceedingly narrow and consist probably of only 2 particles. From their penetration, the shower particles seem to be mesons. The shower producing particles for the shower at 3 cm of lead comes from showers in the walls only. Those for the showers at 25 cm of lead are neutral. This is puzzling. 834021-1821

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|   | Place                 | : Heidelberg.  |
|---|-----------------------|--|
|   | Director              | : Professor W BOTHE.   |
|   | Date                  | : Monday, 25 Sep 50.   |
|   | Visit Conducted<br>by | : Dr MAIER-LEIBNITZ.   |
|   | Other Research        |  |
|   | Encountered           | : Professor BOTHE.   |
|   | Building              | : The building was constructed about 1930, and is very elegant and<br>spacious - but it is almost wholly occupied by the US 4th Medical<br>Laboratory! In addition to the cyclotron room and the Van der<br>Graaf room, only two laboratories are available to the physicists.<br>This is exceedingly regrettable, since it makes efficient work<br>with the two machines, which are unique in Germany, almost impossible.   |
|   | Equipment             | : A 13 M.E.V. cyclotron, the only one in Germany; it is mostly used<br>to irradiate samples for medical research. A Van der Graaf, the<br>largest I have so far seen in Germany, but small compared to US<br>standards.  |
| ÷ | General Impressio     | ns   |
|   | and Remarks           | : The place is almost too crowded to work. The research workers we met are mostly the same as in the Physics Laboratory (see above).   |
|   | Individual Resear     |  |
| • | <b>Projects</b>       | <ul> <li>a. MAIER-LEIBNITZ is investigating a somewhat puzzling effect<br/>found in the annihilation of positrons, The coincidence rate<br/>at angles of 180° depends on the material in which the annihila-<br/>tion takes place.</li> <li>b. MAIER-LEIBNITZ also attempts to get an accurate K capture<br/>to positron ratio for various elements.</li> <li>c. The Van der Graaf machine is, at present, used to accelerate<br/>electrons, and Professor BOTHE's work on scattering of electrons<br/>on nuclei is extended.</li> </ul> |

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A Section of Concession

| 35.                                     | Institute :                | KAISER-WILHELM INSTITUT FUER CHEMIE,  |
|---|----------------------------|---|
| · _ · · · · · · · · · · · · · · · · · · | -Place                     | Mainz.  |
|   | Director :                 | Professor STRASSMANN.   |
| 1.<br>_ 12.2 - 1. 1. 1. 1. 1.<br>_      | Date man in :              | Tuesday, 3 Oct 50.  |
| -<br>                                   | Visit Conducted<br>by :    | Professor STRASSMANN.   |
|   | Other Research             |   |
| -<br>-<br>-<br>-<br>-<br>-<br>-         | Workers :<br>Encountered : | Dr FLAMMERSFELD.<br>Dr LUDWIG WALDMANN.<br>Dr ALFRED KLFMM.   |
|   | Building :                 | The institute is housed in two buildings, one, which houses the<br>high energy machines is absolutely new, the other, in which most<br>of the offices and laboratories are to be located, is being<br>remodeled from a former large machine shop.   |
|   |                            | The new building for the high voltage equipment seems to be<br>excellently_designed for the purpose.  |
| 2<br>-<br>-<br>-<br>-                   |                            | The other building is by no means completely finished. The<br>rooms and laboratories which have been completed are pleasant,<br>large, and apparently very suitable for laboratories.   |
|   | Equipment :                | The outstanding piece of equipment is a high voltage linear<br>accelerator, capable of producing an ion beam of 0.8 milli<br>ampere at 1.3 million electron volts energy. A Van der Graaf<br>machine in a pressure tank capable of withstanding 20 atmospheres<br>pressure, and expected to produce an ion beam of three to four<br>million electron volts is being assembled. Both machines were<br>constructed during the var, and have been moved from Berlin. |
|   | :                          | One very fine precision mass spectrograph, with probably the<br>highest resolution of any instrument in the world, is set up<br>and operating. Other mass spectrographs are expected to be<br>installed.  |
| - •<br>3<br>3<br>2                      | :                          | In addition, there are numerous counters and scalers for<br>measuring radioactive materials and an apparently adequate supply<br>of all ordinary electrical equipment, vacuum pumps, and similar<br>apparatus used in nuclear research.   |
| 5a                                      | General Impressions        |   |
|   | and Remarks :              | This laboratory is the direct descendent, with the same name,<br>of the institute of Hahn and Meitner, in which nuclear fission<br>was discovered. It had been hoped that Hahn would continue as<br>director, but as he did not, his collaborator, Strassman now has<br>the direction. The physicist, <u>Mattauch</u> , who succeeded Meitner,<br>has spent two years in Bern, waiting for the completion of the<br>building. He will-return soon.                |
|   |                            | The laboratory gives the impression of a new, growing institute,<br>staffed with an enthusiastic competent staff, who were producing<br>good scientific results while at the same time devoting a con-<br>siderable portion of their time to the construction of new<br>equipment.  |
|   |                            |   |

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The staff were all comparatively young. They remarked, in discussing various pieces of apparatus and methods, that their techniques had not yet caught up with recent US advances in the field, but they seemed to be well aware of these improvements, and fully capable of making use of them.

This is a laboratory which should be expected to produce many useful results in the near future.

#### Individual Research Projects ;

: A considerable portion of the staff effort is spent in constructing and rebuilding of the large machines.

a. Dr FLAMMERSFELD had discovered an isomeric state of 3-minute half life and about 100 keV energy in Sel?. This is in the theoretically expected region, but the life is shorter than that predicted theoretically.

b. Dr WALDMANN has developed an apparatus by which diffusion coefficients of gases can be obtained by a stationary method. The apparatus consists essentially in a cylindrical tube through which the two gases flow, separated from each other by a membrane parallel to the tube. Where the membrane stops, diffusion starts. Every position down the tube corresponds to a time interval after the start of diffusion.

(1) In the apparatus described above, a temperature difference between the two gases occurs in the diffusion region. This predictable effect has been measured for the first time.

(2) Dr WALDMANN has interested himself in the kinetic theory of such effects as that above, and in the theory of exchange reactions.

c. Dr KLEMM has been investigating a method for the separation of isotopes, using molten salts, which is in principle at least, similar to the electrophonetic method of separating protein fractions. If an electric current passes vertically through molten ZnCl<sub>2</sub> floating on molten PbCl<sub>2</sub>, the Cl<sup>-</sup> ions move in one direction and the positive Pb<sup>++</sup> and Zn<sup>++</sup> in the opposite. The molten PbCl<sub>2</sub> has a higher conductivity than ZnCl<sub>2</sub> so the boundary stays sharp if the current is passed in such a direction that the Zn<sup>++</sup> ions follow the Pb<sup>++</sup> (positive current flowing downward).

By a simple device of constraining the current to pass through a relatively thin tube connecting two large reservoirs the actual position of the two fluid boundary remains almost stationary.

An isotope separation should occur in the ZnCl2 near the boundary.

Analyses have not yet been made on the zinc samples.

Sweden is contemplating attempting to use the method for the separation of uranium isotopes. This might conceivably be of interest to the Atomic Energy Commission.

In order to prevent convective mixing, the tube in which the current flows is filled with glass splinters. The packing of these is poor. Consequently, glass beads of some 0.1 mm diameter or less are produced by dropping the glass powder through a Tamman oven heated to 2000°C. An Al<sub>2</sub>O<sub>3</sub> tube is used to protect the glass fromApproved for Release: 2022/06/22 C00010786; eads, seen through the Individual Research Projects :

: A consiApproved for Release: 2022/06/22 C00010786 spent in constructing and rebuilding of the large machines.

a. Dr FLAMMERSFELD had discovered an isomeric state of 3-minute half life and about 100° keV energy in Se<sup>19</sup>. This is in the theoretically expected region, but the life is shorter than that predicted theoretically.

b. Dr WALDMANN has developed an apparatus by which diffusion coefficients of gases can be obtained by a stationary method. The apparatus consists essentially in a cylindrical tube through which the two gases flow, separated from each other by a membrane parallel to the tube. Where the membrane stops, diffusion starts. Every position down the tube corresponds to a time interval after the start of diffusion.

(1) In the apparatus described above, a temperature difference between the two gases occurs in the diffusion region. This predictable effect has been measured for the first time.

(2) Dr WALDMANN has interested himself in the kinetic theory of such effects as that above, and in the theory of exchange reactions.

c. Dr KLEMM has been investigating a method for the separation of isotopes, using molten salts, which is in principle at least, similar to the electrophonetic method of separating protein fractions. If an electric current passes vertically through molten ZnCl<sub>2</sub> floating on molten PbCl<sub>2</sub>, the Cl<sup>-</sup> ions move in one direction and the positive Pb<sup>++</sup> and Zn<sup>++</sup> in the opposite. The molten PbCl<sub>2</sub> has a higher conductivity than ZnCl<sub>2</sub> so the boundary stays sharp if the current is passed in such a direction that the Zn<sup>++</sup> ions follow the Pb<sup>++</sup> (positive current flowing downward).

By a simple device of constraining the current to pass through a relatively thin tube connecting two large reservoirs the actual position of the two fluid boundary remains almost stationary.

An isotope separation should occur in the ZnCl2-near the boundary.

Analyses have not yet been made on the zinc samples.

Sweden is contemplating attempting to use the method for the separation of uranium isotopes. This might conceivably be of interest to the Atomic Energy Commission.

In order to prevent convective mixing, the tube in which the current flows is filled with glass splinters. The packing of these is poor. Consequently, glass beads of some 0.1 mm diameter or less are produced by dropping the glass powder through a Tamman oven heated to 2000°C. An Al<sub>2</sub>O<sub>3</sub> tube is used to protect the glass from the graphite walls of the oven. The beads, seen through the microscope, look perfectly spherical.

d. The precision mass spectrometer is used for the precise determination of isotope masses, particularly of light elements. Dr EWALD, in charge of the work, was not present.

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| 36. | Institute                 | PHYSIKALISCHES CHEMISCHES INSTITUT DER UNIVERSITAET MAINZ.  |                             |
|-----|---------------------------|---|-----------------------------|
|     | Place                     | : Mainz.  |                             |
|     | Director                  | Frofessor SCHULZ.   |                             |
|     | Date                      | 3 Oct 50.   |                             |
|     | Visit Conducted -         |   |                             |
|     | by                        | DT CANYOW.  |                             |
|     | Other Research<br>Workers |   |                             |
|     | Encountered               | Dr MEYERHOFF  |                             |
|     |                           | Fr1. Dr MARX  | -                           |
|     | Building                  | The building is a remodeled one-story garage, without cellar.   |                             |
|     |                           | Although reasonably satisfactory, it does not make ideal laboratory space.  |                             |
|     |                           | The whole university is housed in a former Flak post, the general   | - 1                         |
|     |                           | studies and humanities occupying the former barracks, and the   | 7                           |
|     |                           | physics and chemistry occupying garage space and repair shop  |                             |
|     |                           | quarters. New additions, in particular, two large lecture rooms<br>are to be built as additions to the chemistry and physics institutes.  | ····                        |
|     | Equipment                 | A good ultracentrifuge, comometers, a few small spectrographs,  |                             |
|     |                           | and the usual physical chemical apparatus are available. The  | 4                           |
|     |                           | equipment appeared to be adequate, but, except for the ultra-<br>centrifuge, not exceptional.   |                             |
|     |                           | The ultracentrifuge was an air driven; vacuum contained rotor type,<br>with the usual index of refraction camera for detecting the<br>sedimentation boundary. Beside it, and arranged to use the same | •                           |
|     |                           | camera, was an apparatus for measuring diffusion coefficients.  |                             |
|     | General Impression        |   |                             |
|     | and Remarks               | The director, Professor SCHULZ, was away on vacation. The assistant,<br>Dr CANTOW, who took us around, was young and enthusiastic. Possibly   |                             |
|     |                           | the influence of his guidance is responsible for the impression   |                             |
|     |                           | of a fresh_enthusiasm, but_slight lack of background, in the work of the laboratory.  |                             |
|     |                           | The whole institute works in the field of large molecules. Most   |                             |
|     |                           | of the work is centered about artificial polymers, particularly   | 277 (122-1)<br>1997 (122-1) |
|     |                           | polystyrene. Some work is done with cellulose, and cellulose derivatives, and it is intended to include work on proteins.   |                             |
|     | Individual Researc        |   |                             |
|     | Projects                  | a. Dr CANTOW was constructing a light scattering apparatus,   |                             |
|     |                           | arranged to measure the scattering as a function of wave length   |                             |
|     |                           | and angle. He was intending to use centrifugation to optically<br>purify the solution.  |                             |
|     |                           | b. Dr <u>MEYERHOFF</u> had charge of the ultracentrifuge. The molecular weight of polystyrenes were being measured.   |                             |
|     |                           | c. H DOLL was in the laboratory of Dr Helfritz, who was not there.  |                             |
|     |                           | Osmotic pressure measurements seemed to be the chief occupation of<br>this room. Doll exhibited a new type commeter, developed by<br>HelfApproved for Release: 2022/06/22 C00010786 bours, instead of |                             |
|     |                           | WINE IN DUCE. INSTEAD OF  |                             |

|  | ъу                              | :                                     | Dr CANTOW.   |
|--|---------------------------------|---------------------------------------|--|
|  | Other Research<br>Workers       |                                       | Approved for Release: 2022/06/22 C00010786   |
|  | Encountered                     | :                                     | Dr MEYERHOFF<br>Frl. Dr MARX<br>H DOLL   |
| ·  | Building                        |                                       | The building is a remodeled one-story garage, without cellar.<br>Although reasonably satisfactory, it does not make ideal laboratory<br>space.   |
|  |                                 | · · · · · · · · · · · · · · · · · · · | The whole university is housed in a former Flak post, the general<br>studies and humanities occupying the former barracks, and the<br>physics and chemistry occupying garage space and repair shop<br>quarters. New additions, in particular, two large lecture rooms<br>are to be built as additions to the chemistry and physics institutes. |
| 1  | Equipment                       | *<br>*<br>*                           | A good ultracentrifuge, osmometers, a few small spectrographs,<br>and the usual physical_chemical_apparatus are_available. The<br>equipment appeared to be adequate, but, except for the_ultra-<br>centrifuge, not exceptional.  |
| 2<br>•<br>•  |                                 |                                       | The ultracentrifuge was an air driven, vacuum contained rotor type,<br>with the usual index of refraction camera for detecting the<br>sedimentation boundaryBeside_it, and arranged to use the same<br>camera, was an apparatus for measuring diffusion coefficients.  |
|  | General Impress:<br>and Remarks | ions<br>;                             | The director, Professor SCHULZ, was away on vacation. The assistant,<br>Dr CANTOW, who took us around, was young and enthusiastic. Possibly<br>the influence of his guidance is responsible for the impression<br>of a fresh enthusiasm, but slight lack of background, in the work<br>of the laboratory.                                      |
|  |                                 | -                                     | The whole institute works in the field of large molecules. Most<br>of the work is centered about artificial polymers, particularly<br>polystyrene. Some work is done with cellulose, and cellulose<br>derivatives, and it is intended to include work on proteins.   |
| and a second contract of the second | Individual Resea<br>Projects    | arch<br>:                             | a. Dr CANTOW was constructing a light scattering apparatus,<br>arranged to measure the scattering as a function of wave length<br>and angle. He was intending to use centrifugation to optically<br>purify the solution.   |
|  |                                 |                                       | b. Dr <u>MEYERHOFF</u> had charge of the ultracentrifuge. The molecular weight of polystyrenes were being measured.  |
|  |                                 | ••••                                  | c. E DOLL was in the laboratory of Dr Helfritz, who was not there.<br>Osmotic pressure measurements seemed to be the chief occupation of<br>this room. Doll exhibited a new type osmometer, developed by<br>Helfritz, which came to equilibrium in a few hours, instead of<br>several days.  |
|  |                                 | :                                     | d. Frl. Dr MARX was engaged in reinvestigating the hydrolysis of cellulose about which there is disagreement in the literature.  |
| n<br>  |                                 | ÷.,                                   | 834021-/83/  |
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| 37. | Institute                 | ŧ    | PHYSIKALISCHES INSTITUT DER UNIVERSITAET, MAINZ.   |
|     | Place                     | 1    | Mainz.   |
|     | Director                  | :    | Professor KLUMB.   |
|     | Date                      | :    | Tuesday, 3-Oct 50.   |
|     | Visit Conducted<br>by     | :    | Professor KLUMB.   |
| •   | Other Research<br>Workers |      |  |
|     | Encountered               | :    | Dr KLAGES<br>Dr DAENZER  |
|     | Building                  | :    | The building, like that of the chemical and physical chemical<br>laboratory, was a remodeled one story garage, reasonably satis-<br>factory, but not ideal, for laboratory purposes. A foundation<br>for a new lecture room has been laid, but construction is not<br>going on at present. |
| •   |                           |      | The equipment is modest. There is, however, a good shop, and<br>very considerable space and machines for training mechanic<br>apprentices, as well as for the technical training of students<br>in machine shop methods.   |
|     | General Impress           | ion  |  |
|     | and Remarks               | :    | Professor KLUMB appeared to be scmewhat more interested in the<br>teaching and pedagogical responsibilities of the institute than<br>in the research projects. Research is largely left to the<br>more fortunate colleagues at the KWI. Not an inspiring<br>laboratory.                    |
|     | Individual Rese           | arch |  |
|     | Projects                  | ;    | a. Professor KLUMB is mainly interested in vacuum techniques.<br>Quartz fiber manometers were used, as in Karlsruhe.   |
|     | ·<br>·                    |      | b. Dr DAENZER is said to be interested in nuclear physics. It<br>seems that his main occupation consists in supervising Diplom<br>candidates. One of them constructed a rather cute miniature  |
|     | :                         |      | model cyclotron, for the acceleration of electrons.  |
|     |                           |      |  |
|     |                           |      |  |
|     | :                         |      |  |

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| 38.         | Institute                                | :            | INSTITUT FUER PHYSIKALISCHE CHEMIE DER TECHNISCHE HOCESCHULE,<br>DARMSTADT.  |
|-------------|--|--------------|--|
|             | Place                                    | :            | Darmstadt.   |
|             | Director                                 | :            | No actual director at present; the temporary director is Professor<br>WITTE.   |
|             | Date                                     | :            | Wednesday, 4 Oct 50.   |
|             | Visit Conducted                          |              |  |
|             | рХ                                       | •            | Professor WITTE.   |
|             | Other Research<br>Workers<br>Encountered | <br><b>:</b> | Several students and assistants.   |
|             | Building                                 | •            | The large Zintel Institut had been partially destroyed by bombs.<br>Only one of three wings is completely reconditioned, but some re-<br>building seems to be going on in the other parts of the building.<br>The rooms which were being used are pleasant and well suited for<br>laboratories. Compared with other Hessian institutes, this one<br>is in fair condition and almost adequate in size at the present<br>stage.                          |
|             | Equipment                                | :            | The prevar apparatus was mostly gone, partially due to bombing<br>and partly due to previous occupancy of the institute by Allied<br>troops, which never seens to be good for scientific instruments.<br>Several modern X-ray cameras were available. In view of the<br>later remarked general lack of support from Hesse, one would suppose<br>that some help from industry had been forthcoming.   |
|             | General Impress<br>and Remarks           | ion<br>:     | Professor WITTE is interested in metal structure, and the relation<br>between chemical structure and the physical properties due to<br>filling the Brillouin zones. Professor WITTE impressed us as<br>able and intelligent. He was formerly a mineralogist, doctored<br>under Goldschmidt in Goettingen, and collaborated with Laves, now<br>in Chicago. The work of the institute is now limited to physical<br>chemical problems related to metals. |
|             |  |              | One story told here deserves repetition. WITTE had wanted an<br>FP-54 radio tube from General Electric to use in an amplifier.<br>After receiving no response to two letters addressed to the<br>Schenectady offices, he inquired at the GE "Filial" in Frankfurt<br>and was told that the Atomic Energy Commission forbade its export<br>from the US.   |
| · · · · · · | •  |              | The FP-54 is a simple pentode of price about US\$5.00, having an<br>unusually high plate to filament resistance, and manufactured<br>since 1935 or earlier. It is incredible to us that the AEC can,<br>or wishes to, forbid its export. I presume the Frankfurt agency<br>only wished to find a simple excuse to avoid handling a small   |
|             |  |              | but troublesome order. This type of experience is not good propaganda for the US.  |
|             | ······································   | _            |  |
|             | Individual Rese<br>Problems              | arch:        | Crystal structures of alloys, in connection with other measurements<br>on the same alloys, were determined using X-ray methods.  |
|             |  |              | The magnetic susceptibilities of alloys, as a function of varying<br>composition, and hence varying filling of the Brillouin zones,<br>were determined.<br>Approved for Release: 2022/06/22 C00010786  |

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The solubility of hydrogen in alloys, also as a function of Brillouin zone filling, was determined. Solubility decreases markedly as the zone is filled.

Catalytic effect for hydrogenation reactions for the same alloys were being studied.

Among the alloys under investigation were sets MgZn<sub>2</sub> to MgCu<sub>2</sub> and MgZn<sub>2</sub> to MgNi<sub>2</sub>.

|              | · · ·                                    | - 52 -  |
|--------------|--|---|
| 30 -         | Institute                                | : INSTITUT FUER PRAKTISCHE MATHEMATIK.  |
| 33.          | Place                                    | : Dermstait.  |
|              | Director                                 | : Professor A WALTHER.  |
|              | Date                                     | : Wednesday, 4 Oct 50.  |
|              | and a second                             | · remoting, + out you   |
|              | Visit Conducted<br>by                    | : Dr DREYER.  |
|              | Other Research<br>Workers<br>Encountered | : None,   |
|              | Building                                 | : The institute is in a few rooms on the third floor of a wing of<br>an otherwise uninhabitable building, which is undergoing re-<br>construction. The few rooms were pleasant.   |
|              | Equipment                                | : Several units of a machine similar to the <u>Bush analyzer vere</u><br>in operation. The machine integrates partial differential<br>equations up to the second order.   |
| - 19<br>- 19 |  | An electronic digital computor is contemplated. At the time of<br>our visit the question of decimal versus binary system was under<br>consideration.  |
|              | General Impress<br>and Remarks           | <ul> <li>The director, Professor WALTHER, was in the US at the time of our visit. The men in the institute seemed to be intelligent, capable, and interested in their work.</li> <li>A refreshing desire was noticed to make their computor simple to use, rather than "logical" in construction. This was pleasant to us, since we feel that some of the US machines under construction may be capable of handling prodigious problems, but that a PhD in calculating machines will be a requirement before a problem can be placed on them. This group seemed to be conscious and appreciative of this difficulty.</li> <li>The operating analyzer was made to do a problem for US.</li> <li>One unit reads a curve drawn with India ink on paper, and follows the line to 0.1 mm. The paper is about one meter on edge giving a precision of about one part in 10°.</li> <li>The final units, two in number, draw the integrated result and its derivative to the same accuracy. The numerical results can also be printed.</li> <li>Between these two units are a multiplier and an integrator.</li> <li>The units are electrically coupled.</li> </ul> |
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| 40.                                   | Institute                                |          | PEYSIKALISCHES INSTITUT DER TECHNISCHEN HOCESCHULE.   |
|                                       | ··Place                                  | :        | Darmstadt.  |
| · · · · · · · · · · · · · · · · · · · | Director                                 |          | Professor RAU (actually retired).   |
|                                       | Date                                     | :        | Wednesday, 4 Oct 50.  |
|                                       | Visit Conducted                          |          |   |
|                                       | ру                                       | :        | Professor Rudolf GEBAUER.   |
|                                       | Other Research<br>Workers<br>Encountered | •        | Dipl Phys UIM.  |
|                                       |  |          |   |
|                                       | Building                                 | :        | This laboratory functions literally in the cellar of a ruin.<br>From the outside, one has the impression of a totally destroyed<br>and uninhabitable place. The few basement rooms are dirty and<br>crowded. Just now some rebuilding has been undertaken, and a<br>number of light and pleasant rooms will soon be available for<br>research.  |
| - 2. ₽<br>- 2.₽₽<br>- 1.₽₽            | Equipment                                | :        | There exists a good "Werkstatt". Otherwise, we saw only two<br>good Steinheil 3-prism spectrographs, each with the necessary<br>equipment to produce canal rays of hydrogen, and to observe the<br>Stark effect, or the linesplitting in strong electric fields.  |
|                                       | General Impressio<br>and Remarks         | <b>.</b> | The working conditions in this laboratory are the poorest so far<br>encountered. We were received very cordially by Professor<br>GEBAUER, who seemed to enjoy having a chance to discuss his work.<br>He was very enthusiastic and kept us way over the lunch hour.<br>Professor GEBAUER's main interest is in the study of the Stark<br>effect, which by now has become rather old-fashioned; but his<br>work is good and accurate. Besides, there is some work on<br>centimeter waves.<br>Mr ULM was one of the few examples of students who talked freely<br>and did not just stand at attention while the professor was present.  |
| ·                                     | Individual Resear<br>Problems            |          | <ul> <li>a. Very nice spectra of the Stark effect in hydrogen were shown, up to field strengths of 14MeV per cm.</li> <li>b. The Stark effect in calcium is observed by bombarding a piece of calcium with the hydrogen canal rays.</li> <li>c. Hydrogen canal rays are also observed when the electric field is first parallel, then anti-parallel to the direction of the beam, or vice versa. There are puzzling changes in intensity.</li> <li>d. If the electric field is at right angles to the beam, but not uniform, the spectra taken simultaneously by two spectrographs from the side of strong and weak fields differ in relative intensity of the Stark components. This is puzzling, and Dr GEBAUER is now intending to study the absorption of the light from one canal ray by another, at slightly different fields.</li> </ul> |
| ···                                   | · · · · · · · · · · · · · · · · · · ·    | -        | e. Calculations on Klystrons are normally made by assuming that   |
| · · · · · · · · · · · · · · · · · · · |  |          | the positions where the field changes are infinitely thin, GEBAUER has Approved for Release: 2022/06/22 C000107860 account the fact   |

|                            | Visit Conducted                          |                  |  |
|----------------------------|--|------------------|--|
|                            | by                                       |                  | Prof Approved for Release: 2022/06/22 C00010786  |
|                            | Other Research<br>Workers<br>Encountered |                  | Dipl Phys UIM.   |
|                            | Building                                 |                  | Mide Jahawahama Amaddana 144 mallar da dha anllan an a suut  |
|                            |  | •<br>•<br>•<br>• | This laboratory functions literally in the cellar of a ruin.<br>From the outside, one has the impression of a totally destroyed<br>and uninhabitable place. The few basement rooms are dirty and<br>crowded. Just now some rebuilding has been undertaken, and a<br>number of light and pleasant rooms will soon be available for<br>research.   |
| • • • 2<br>• • • • • • • • | Equipment                                |                  | There exists a good "Werkstatt". Otherwise, we saw only two<br>good Steinheil 3-prism spectrographs, each with the necessary<br>equipment to produce canal rays of hydrogen, and to observe the<br>Stark effect, or the linesplitting in strong electric fields.   |
|                            | General Impress<br>and Remarks           |                  | The working conditions in this laboratory are the poorest so far<br>encountered. We were received very cordially by Professor<br>GERAUER, who seemed to enjoy having a chance to discuss his work.<br>He was very enthusiastic and kept us way over the lunch hour.<br>Professor GEBAUER's main interest is in the study of the Stark<br>effect, which by now has become rather old-fashioned; but his<br>work is good and accurate. Besides, there is some work on<br>centimeter waves.<br>Mr ULM was one of the few examples of students who talked freely<br>and did not just stand at attention while the professor was present. |
|                            | Individual Resea                         | arch             |  |
|                            | Problems                                 |                  | a. Very nice spectra of the Stark effect in hydrogen were shown,<br>up to field strengths of 14MeV per cm.   |
|                            |  | <b></b>          | b. The Stark effect in calcium is observed by bombarding a piece<br>of calcium with the hydrogen canal rays.   |
|                            |  |                  | c. <u>Hydrogen canal rays are also observed when the electric</u><br>field is first parallel, then anti-parallel to the direction of<br>the beam, or vice versa. There are puzzling changes in intensity.  |
|                            |  | •                | d. If the electric field is at right angles to the beam, but<br>not uniform, the spectra taken simultaneously by two spectro-<br>graphs from the side of strong and weak fields differ in relative<br>intensity of the Stark components. This is puzzling, and Dr<br>GEBAUER is now intending to study the absorption of the light<br>from one canal ray by another, at slightly different fields.   |
|                            |  |                  | e. <u>Calculations on Klystrons are normally made by assuming that</u><br>the positions where the field changes are infinitely thin. GEBAUER<br>has made calculations in which he takes into account the fact<br>that the field is zero over a finite distance between the two<br>chambers. The numerical integrations made show that the results<br>are quite different from the simple case, and new conditions of<br>optimum efficiency are obtained.   |
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| 41.  | Institute :                         | PHYSIKALISCHES INSTITUT DER UNIVERSITAET, FRANKFURT.  |
| -  | Place :                             | Frankfurt.  |
| ·<br>·   | Director :                          | Professor Marianus CZERNY.  |
| •  | Date :                              | Thursday, 5 Oct 50.   |
|  | Visit Conducted<br>by:              | Professor CZERNY, Dr HONERJAEGER and Dr MUESER.   |
| - Constant of the second of th | Building :                          | The laboratories consist of about six rooms that have been re-<br>built in that portion of the building which was most severely<br>turnt out. The rest of the building is a ruin with a few barely<br>habitable rooms, in one of which the director's office is located.<br>The lecture room is still a ruin of which the steel supporting<br>members of the roof alone have been repaired. The roof still<br>has gaping holes. Repair and rebuilding of the institute is<br>in progress, but apparently slowly and with little intent of<br>completion in calculable time. The few completed rooms were<br>satisfactorily suited for research. |
|  | Equipment :                         | Through the use of the shop of the institute, and the construc-<br>tion in the laboratory of pieces of apparatus normally purchased,<br>there is adequate equipment for infrared investigations (CZERNY),<br>high frequency (1 cm to 8 meters) research (HONYRJAEGER), and semi-<br>conductor work (MJESER). There was a Royland 3-meter concave<br>grating. The library was not destroyed, and is quite adequate.  |
| :<br>:   | General Impression<br>and Remarks : | At first, Dr CZERNY gave the impression of being tired and dis-<br>couraged with the constant rebuilding and redestruction (during  |
|  | -                                   | The shop, slthough still badly housed, appears to be good,  |
|  |                                     | After this somewhat discouraging display he called Doctors<br>EONERJAEGER and MUESER and with them guided us through the<br>research rooms.   |
|  |                                     | Although the institute is obviously handicapped by lack of money<br>there is an enormous energy expended in getting what appears to<br>be very good and first-class work started. Dr HONERJAEGER con-<br>structs his own magnetrons, for instance. The spectrographic<br>equipment for infrared work appears to be excellent, although<br>lacking entirely the large automatic recording instruments common<br>in the US.   |
| ,  | Individual Research                 |   |
|  | Projects :                          | a. MUESER. The Hall effect in Cu <sub>2</sub> O as function of the temperature<br>and oxygen pressure is being investigated. The oxygen pressure<br>(which is extremely small) is adjusted by passing almost completely<br>pure N <sub>2</sub> over a mixture of Cu and Cu <sub>2</sub> O at a definite temperature.<br>When the Cu <sub>2</sub> O has an excess of oxygen and the normal Hall effect<br>is expected, and with a deficiency of oxygen the anomalous effect<br>is expected. There are conflicting results in the literature,<br>made without careful control of the O <sub>2</sub> pressure.                                     |
|  |                                     | b. MIRSER. The (very high) photo sensitivity of the Cds<br>conductivity is investigated in single crystals.   |

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c. HONERJAEGER. The dispersion of K Cl crystals in the region of centimeter waves is being measured. It is intended to determine whether this is due to the 60 mm absorption band alone, or whether there is a lower frequency absorption.

d. HONERJAEGER. Absorption by gases in the centimeter wave length region is measured.

e. HONERJAEGER. Absorption and dispersion by alphanaphthaline liquid over a range of frequencies from a few centimeters to lower wave lengths is measured. This is done to investigate whether the dispersion can be accounted for by a single damping constant.

f. HONERJAEGER. The dielectric constant of the plasma in a discharge tube is measured and used to determine the density of the electron gas in the plasma. The dielectric constant is less than unity by about one part in 10-5 but the measurements can be made to an accuracy of as great as one part in 10-7.

g. CZERNY. Very short period bolometers were constructed by evaporating metal onto a thin cellophane sheet and using the change of resistance with temperature as a measure of the radiation intensity. Periods of 1/20 seconds are obtained.

As the metal thickness increases from zero the absorption of the metal film increases, and the reflectivity also. There exists an optimum thickness at which 25% of the energy is reflected, 25% transmitted, and 50% absorbed.

h. The short period detectors are used with infrared modulated (mechanically) with a frequency of a few cycles per second, to measure the absorption of solid and molten glass. The intense uniform emission of the glass is thus eliminated. The thickness of the glass is changed by sending the light vertically down and reflecting it from a platinum mirror at various depths.

i. A thin film having the cumulative characteristic of a photographic plate is being developed for thepurpose of obtaining a permanent image of an infrared spectrum. So far the success has been only partial. (This is also investigated by GOBRECHT, Berlin.)

A very thin collodion film is used as a base on which a paraffin oil is evaporated in vacuum. The film is thin enough to show interference fringes. When exposed, like a photographic plate, to the spectrum, the oil evaporates at the intense lines, and the interference colors change. When exposed to the air the high pressure prevents evaporation and a photograph, with ordinary light, of the film can be made.

At present, the films become mottled after exposures longer than two minutes. This prevents use of the cumulative effect.

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| 42.          | Institute                                | :                                     | PHYSIKALISCH-CHEMISCHES INSTITUT DER UNTVERSITAET, FRANKPURT.   |
|--------------|--|---------------------------------------|---|
|              | Place                                    | :                                     | Frankfurt.  |
|              | Director (Acting)                        | :                                     | Professor MAGNUS.   |
|              | Date                                     | :                                     | Thursday, 5 Oct 50.   |
|              | Visit Conducted by                       | •                                     | Professor MAJNUS and HARTMANN.  |
|              | Other Research<br>Workers<br>Encountered | :                                     | Dr Arnold MJENSTER<br>Dr KLAAR  |
|              | Building                                 | •                                     | The institute is housed in one repaired wing of the same large<br>ruins in which the physical institute is located. The space is<br>small, and the few, rather well suited rooms, are rather crowded.   |
|              | Equipment                                | •                                     | Most of the equipment is of the modest type most used in physical<br>chemical research. There exists some good spectrographic equip-<br>ment, namely one three-prism Steinheil spectrograph, 2 quartz<br>spectrometers, 1 fluorite vacuum spectrometer, and they expect<br>to get an infrared spectrograph. The shop is very small, and<br>seems to contain only two small lathes, but appears to have a<br>good master mechanic. |
|              | General Impression                       | a                                     |   |
|              | • • ·                                    | • • • • • • • • • • • • • • • • • • • | Professor MAJNUS, who is 70 years old, is probably not an out-<br>standing scientist. He gave the impression of being interested<br>in modern developments, although not understanding them. He<br>probably is a good teacher, and seems to have the ability to<br>recognize good work in others. He is probably an excellent<br>director to work with, and seems to collect excellent talent<br>around him.                      |
| <b>.</b> .   |  |                                       | EARTMANN seems to have broad theoretical interests, and is<br>probably a very good scientist. His discussion of theoretical<br>problems was interesting, and gave the impression of extreme<br>competence and considerable originality.   |
|              | :  |                                       | MUENSTER appears to be quite young, and is one of the very few<br>scientists in Germany interested in statistical mechanical<br>problems. He is largely self taught (part of his education comes<br>from reading while in a Nazi concentration camp for eight (or ten)<br>years. In view of this history, his grasp of theoretical<br>statistical mechanics would indicate a very good ability.                                   |
|              | :  | •                                     | The workers in the department appear to be on excellent personal<br>terms with each other. One has the impression of a cooperative<br>enterprise, rather than an institute dominated by one chief.  |
|              |  | •                                     | The university is half state and half city supported. Apparently,<br>the city has not always paid its contribution, which accounts<br>for the poverty of the institute.   |
|              | Individual Researc<br>Projects           | :                                     | There were several amusing and simple pieces of apparatus constructed<br>by MAGNUS which demonstrate experimentally laws which are well   |
| - "- <u></u> | ریاضان استوجود رواند و میرواند.<br>ا     |                                       | known to be correct. For instance, an apparatus for measuring<br>the pressure difference at the bottom of two long columns of<br>different gases was present.   |

**Terent gases was present.** Approved for Release: 2022/06/22 C00010786

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a. MAGNUS. A simple, but very precise bomb calorimeter for measuring heats of combustion with great precision was in operation.

The calorimeter is of copper, and the comparison standard is an aluminum block hung under the calorimeter in vacuum. A multiple element thermocouple capable of detecting 10<sup>-5</sup> degrees centigrade connects them.

The heat of combustion of various organic aromatics with four\_or\_\_\_\_\_ more fused rings have been measured, and compared with theory (Hartmann). The deviations from the theoretically computed values occur\_only\_when steric hindrance prevents a planar configuration.

b. The ionization potential of phenyl-monohalides have been measured by a Franck-Hertz method. The results are irregular with the different halides, which is as yet inexplicable. These results check those in the literature which were suspected of being false.

c. HARTMANN. The absorption spectra of crystalline and dissolved ions of transition elements, have been measured in the visible region. The results have been interpreted theoretically. For instance, the lowest D level of Ti<sup>+++</sup> splits into two levels in the octahedral field, which calculate to give the separation of the observed violet band. The lower symmetry of Ti Cl<sub>2</sub> (H<sub>2</sub>O)<sub>4</sub>+ Cl<sup>-</sup> leads to two excited states, of which the transition from the lower explains the green line.

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| h2          | Institute                               | CHEMISCHES INSTITUT.   |
|-------------|---|--|
| • • • •     | 1112010000                              | the list institut.   |
|             | Place                                   | : Giessen,   |
| - 11<br>    | Director                                | : Professor WEITZ-(Stellvertender).  |
| •           | Date                                    | : Saturday, 7 Oct 50.  |
| -           | Visit Conducted                         |  |
|             | Ъу                                      | : Professor WEITZ and KOHISCHUETTER.   |
| -           | Other Research<br>Workers               |  |
|             |   | : One assistant.   |
|             | Building                                | About one-third of the original institute has been completely<br>destroyed. Very little repair or reconstruction has taken place,<br>so the institute has inadequate space, and that is old and in dis-<br>repair. The praktikum rooms are too small, and not particularly<br>conveniently_arranged. We saw only one research room, which<br>is reasonably large, and in which WEITZ and his assistant work.   |
| 1<br>1      | Equipment                               | : Except for the usual glass bottles, beakers and test tubes there<br>is practically no apparatus. The weighing room has one modern<br>and one old semi-micro-balance, one good analytical balance, and<br>several old ones for use of the beginning students. The library<br>was not destroyed, and is adequate.  |
|             | General Impression<br>and Remarks       | : The physical chemistry institute is temporarily located in<br>Lauterbach. Only after the Leitz Optical Works had endowed<br>a chair in theoretical physics has the Hessen Ministry of Educa-<br>tion agreed to keep the institute of physical chemistry. Since<br>no money (250,000 DM per year for the whole university) is<br>allocated for rebuilding it is not clear when, if ever, there<br>will be space to bring the physical chemistry back to Giessen.  |
| e<br>-<br>  |   | Professor WEITZ is beyond the age of retirement, and teaches both<br>at Giessen and Frankfurt. The chemistry at Giessen is thus<br>represented by one-half of a retired professor, and Professor<br>KOHLSCHUETTER, who has apparently no research in progress.   |
| •           |   | Professor WEITZ is a charming and enthusiastic chemist, who<br>explained his recent work with vigor and clarity, demonstrating<br>most of the effects in the laboratory for our benefit.   |
| •<br>•      | -<br>-<br>-<br>-                        | Professor KOHLSCHUETTER was quite emphatic that all their efforts<br>were diverted to fighting for enough money to carry on instruction<br>and keeping the institute going. For instance, the few rooms<br>occupied during the vacations were being heated by coal stoves<br>to save the higher cost of central heating.   |
|             | Individual Researc                      | h  |
| 2<br>-<br>- |   | Apparently, the only research work was that carried on by WEITZ<br>with his assistant. This work was interesting, and original.  |
|             | • | Many chemical compounds, especially organic dyes, may exist in<br>either an ionic or horopolar form, in which theone form is<br>colored and the other not, or in which the color of the two forms<br>is different. The conditions which favor the ionic or homopolar<br>form can than he studied by characteristic the color change. The<br>war Approved for Release: 2022/06/22 C00010786 her comes have a  |
|             |   | VATHAPPTOVED TOT RELEASE: 2022/06/22 CUUUTU/80 han comes hane and control of the second secon |

|                                       | by :                                  | Frofessor WEITZ and KOHLSCHUETTER.<br>Approved for Release: 2022/06/22 C00010786   |
|---------------------------------------|---------------------------------------|--|
|                                       | Other Research<br>Workers             |  |
|                                       | Encountered :                         | One assistant.   |
|                                       | Building :                            | About one-third of the original institute has been completely<br>destroyed. Very little repair or reconstruction has taken place.  |
|                                       |                                       | so the institute has inadequate space, and that is old and in dis-   |
|                                       | · · · · · · · · · · · · · · · · · · · | repair. The praktikum rooms are too small, and not particularly<br>conveniently_arranged. We saw only one research room, which     |
| · · · · · · · · · · · · · · · · · · · | ······                                | is reasonably large, and in which WEITZ and his assistant work.  |
| -<br>                                 | Equipment :                           | Except for the usual glass bottles, beakers and test tubes there   |
| 1<br>1<br>1                           |                                       | is practically no apparatus. The weighing room has one modern<br>and one old semi-micro balance, one good analytical balance, and  |
|                                       |                                       | several old ones for use of the beginning students. The library<br>was not destroyed, and is adequate.                             |
| -<br>                                 | General Impression                    |  |
|                                       | and Remarks :                         | The physical chemistry institute is temporarily located in   |
| i.                                    |                                       | Lauterbach. Only after the Leitz Optical Works had endowed<br>a chair in theoretical physics has the Hessen Ministry of Educa-     |
| 1                                     |                                       | tion agreed to keep the institute of physical chemistry. Since<br>no money (250,000 DM per year for the whole university) is       |
|                                       |                                       | allocated for rebuilding it is not clear when, if ever, there  |
|                                       |                                       | will be space to bring the physical chemistry back to Giessen.   |
|                                       |                                       | Professor WEITZ is beyond the age of retirement, and teaches both  |
|                                       | •                                     | at Giessen and Frankfurt. The chemistry at Giessen is thus<br>represented by one-half of a retired professor, and Professor        |
| ·<br>• • •                            |                                       | KOHLSCHJETTER, who has apparently no research in progress.   |
|                                       |                                       | Professor WEITZ is a charming and enthusiastic chemist, who  |
| n na sana an                          |                                       | explained his recent work with vigor and clarity, demonstrating  |
| 1 mm - 10                             |                                       | Professor KOHLSCHUETTER was quite emphatic that all their efforts  |
| 5<br>•                                |                                       | were diverted to fighting for enough money to carry on instruction<br>and keeping the institute going. For instance, the few rooms |
| •<br>•                                | :                                     | occupied during the vacations were being heated by coal stoves   |
|                                       | :                                     | to save the higher cost of central heating.  |
|                                       | Individual Research                   |  |
| 5.                                    | Projects :                            | Apparently, the only research work was that carried on by WEITZ with his assistant. This work was interesting, and original.       |
|                                       |                                       |  |
| ŝ                                     | :                                     | Many_chemical compounds, especially organic dyes, may exist in<br>either an ionic or homopolar form, in which theone form is       |
| <b>1</b>                              |                                       | colored and the other not, or in which the color of the two forms  |
| ÷.<br>K                               |                                       | is different. The conditions which favor the ionic or homopolar<br>form can then be studied by observing the color change. The     |
| *<br>*                                |                                       | vapor phase is always the most homopolar, then comes benzene   |
| e.<br>M                               | •                                     | solution, alcohol solution and finally water, which favore the ionic form. What was new is that surface absorption on silica_gel   |
|                                       |                                       | favors the ionic form even more than water solution. Absorption  |
|                                       |                                       | on dry NaCl also favors the ionic form, and even more strongly   |
|                                       | :                                     | absorption on Cdl2 crystals, which have plates of which one<br>surface is wholly negative or wholly positive.                      |
| والمتعادين                            |                                       | 834021-1841  |
|                                       |                                       |  |
|                                       | :                                     | •  |
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The examples demonstrated were:

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| 8., . | Egi                                   | colored as homopolar,<br>cclorless as ionic;        |
|-------|---------------------------------------|---|
| Ъ.    | C(C6H5)3                              | colorless as homopolar,<br>colored as ionic;        |
| c.    | C(C6H5)2 C6H4-COOH (or<br>lactone, co | tho) colorleas as homopolar<br>lored as zwitterion; |
| đ.    | para NO2 C6E4NE2 blue                 | as homopolar, yellow as ion;                        |
| e,    | thio indigo, red as ho                | mopolar, blue as ion,                               |

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The chair of Theoretical Physics is, at present, held by Dr DOFRING. DOFRING is suffering from an over-extensive teaching load. He seems to be an intelligent person. We also met, at a dinner party, his predecessor, Professor Beckert, whon we missed in Mainz. Bechert made a great impression on us. He seems very interesting and intelligent. He is genuinely and deeply interested in the rebirth of a democratic tradition in Germany. This interest is not limited to discussion. He works actively with the students.

Individual Research Problems :

#### a. The fluorescence of materials used in scintillation counters is investigated in several ways.

(1) <u>Kettschak is measuring the life time of the fluorescent</u> state when excited by electron impact. The yield and lifetime does not seem to agree with US results obtained with bombardment by d-particles. The method consists in modulating the electron beam, and sending the fluorescent light through a trough containing progressive supersonic waves of the same frequency. Stripes of light are observed in a microscope, and from their width the lifetime is determined.

(2) <u>Scharmann investigates the lifetimes of the same crystals</u> when the excitation is due to ultraviolet light. The method is similar to that used with electron excitation. The light beam is modulated by passing it through a set of standing supersonic waves, and then through a slit.

(3) Schneider investigates the fluorescence of solutions, exciting them by -rays. Various mixtures are examined.

(4) The fluorescence spectra of the mixtures are studied, and the change at different temperatures and mode of excitation is investigated.

b. <u>Polaroid films which polarize ultra-violet light are produced</u>. Intensity ratios of 1:1000 can be obtained. The method consists of stretching polystyrene films and coloring them. Iodine seems to be the best dye.

c. An iron spark in air will deposit iron oride on a close-lying \_\_\_\_\_\_\_ glass plate. If a magnetic field is applied during this process, the resultant film shows pronounced <u>dichroism</u>. This may be related to the interstellar polarization of light.

d. <u>Northern lights are produced by collision of protons and</u> <u>Helium ions coming from the sun.</u> The radiation observed is due to nitrogen and oxygen, never to hydrogen and helium. With his apparatus for "Northern lights in the laboratory", Hanle shows that this is the expected behavior.

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| 45.        | Institute                                  | PHYSIKALISCH CHEMISCHES INSTITUT (GIESSEN).  |
|            | Place :                                    | Lauterbach   |
|            | Director :                                 | Professor NEUMANN.   |
|            | Date :                                     | Thursday, 12 Oct 50.   |
|            | Visit Conducted<br>by :                    | Professor NEUMANN.   |
|            | Other Research<br>Workers<br>Encountered : | Two students.  |
| • <b>-</b> | Building :                                 | The institute is in three small rooms and a hallway of the<br>Hohhaus - a local museum. They manufacture their own gas by<br>blowing sir through thermostated gasoline, an installation which<br>blev up two days before the visit. By manufacturing and selling<br>baking powder they had succeeded in roofing the former institute<br>in Giessen, and they hope to be able to move back to that 'In-<br>stitute in the spring of 1951. The rooms are crowded and<br>eminently unsuited for research. |
|            | Equipment :                                | Most of the former poor equipment of the Giessen institute was<br>saved, including a milling machine and lathe, but by attrition<br>due to occupation of the building in Lauterbach by US troops,<br>and later by Polish DP's, about half or more has been lost.<br>Little new equipment has been purchased. There appeared to be<br>little but glass, self-made machined apparatus and a few pumps.<br>The library was not destroyed.   |
|            | General Impression<br>and Remarks :        | Professor Neumann is a lively, interested, and enthusiastic,<br>optimiet. He is part Swedish and grew up in Sweden. He hopes<br>that no further catastrophe will overtake the world in the near<br>future, but he says that at least this time he sits in the right<br>boat, whereas from 1933 onwards it was depressing to see a<br>catastrophe approaching and to know one sat on the false side.  |
| - <b>-</b> |  | He was interested in my impression of the general condition of<br>German science compared to US. He has apparently followed<br>much of the recent work in US literature. Professor Neumann's<br>own interests were broad, although the work of the institute is<br>limited to a very narrow field by the poor accommodations.  |
|            | Individual Research<br>Projects ;          | There are several measurements going on determining the rate of<br>evaporation compared to the equilibrium number of collisions on<br>the condensed phase from the saturated vapor. The range covered<br>corresponds to vapor pressures of 10 <sup>-4</sup> to 10 <sup>-7</sup> or 10 <sup>-8</sup> mm.  |
|            |  | The simplest method employed measures, by a micro photograph,<br>the size, at time intervals up to days, of a potassium drop<br>suspended from a silver wire in high vacuum. The neighborhood<br>of the drop is maintained at a known temperature of 60°C to 120°C,<br>and the lower end of the tube is cooled in liquid air. The co-<br>efficient of evaporation is measured to be unity, that is between<br>0.95 and 1.05.   |
|            |  |  |

A guApproved for Release: 2022/06/22 C00010786as shown. In this a

|  | ру                        | -      | Professor NEUMANN.   |
|--|---------------------------|--------|--|
|  | •                         |        | Approved for Release: 2022/06/22 C00010786   |
|  | Other Research<br>Workers |        |  |
|  | Encountered               | 0<br>8 | Two students.  |
|  | Building                  | ŝ      | The institute is in three small rooms and a hallway of the   |
|  |                           |        | Hohhaus - a local museum. They manufacture their own gas by  |
|  |                           |        | blowing sir through thermostated gasoline, an installation which<br>blew up two days before the visit. By manufacturing and selling      |
|  |                           |        | baking powder they had succeeded in roofing the former institute   |
|  |                           |        | in Giessen, and they hope to be able to move back to that In-  |
| ·· ·                                     |                           |        | stitute in the spring of 1951. The rooms are crowded and<br>eminently unsuited for research.   |
| •  |                           |        | •  |
|  | Equipment                 | :      | Most of the former poor equipment of the diessen institute was   |
|  |                           |        | saved, including a milling machine and lathe, but by attrition<br>due to occupation of the building in Lauterbach by US troops,          |
|  |                           |        | and later by Polish DP's, about half or more has been lost.  |
|  |                           |        | Little new equipment has been purchased. There appeared to be  |
|  |                           |        | little but glass, self-made machined apparatus and a few pumps.<br>The library was not destroyed.  |
|  |                           |        | THE TIDIOT - ABOUNDO GODALCIONS  |
|  | General Impress           |        |  |
|  | and Remarks               | :      | Professor Neumann is a lively, interested, and enthusiastic,<br>optimist. He is part Swedish and grew up in Sweden. He hopes             |
|  |                           |        | that no further catastrophe will overtake the world in the near  |
|  |                           |        | future but he says that at least this time he site in the right  |
|  |                           |        | boat, whereas from 1933 onwards it was depressing to see a   |
|  |                           |        | catastrophe approaching and to know one sat on the false side.   |
|  |                           |        | He was interested in my impression of the general condition of   |
|  |                           |        | German science compared to US. He has apparently followed  |
|  |                           | ÷      | much of the recent work in US literature. Professor Neumann's<br>own interests were broad, although the work of the institute is         |
|  |                           |        | limited to a very narrow field by the poor accommodations.   |
|  |                           |        |  |
|  | Individual Res            | earch  | There are several measurements going on determining the rate of  |
|  | Projects                  | •      | evaporation compared to the equilibrium number of collisions on  |
|  |                           |        | the condensed phase from the saturated vapor. The range covered  |
|  |                           |        | corresponds to vapor pressures of 10-4 to 10-7 or 10-8 mm.   |
|  |                           |        | The simplest method employed measures, by a micro photograph,  |
|  |                           |        | the size, at time intervals up to days; of a potassium drop  |
|  |                           |        | suspended from a silver wire in high vacuum. The neighborhood  |
|  |                           |        | of the drop is maintained at a known temperature of 60°C to 120°C,<br>and the lower end of the tube is cooled in liquid air. The co-     |
|  |                           |        | efficient of evaporation is measured to be unity, that is between  |
|  |                           |        | 0.95 and 1.05.   |
|  |                           |        | the state was a state we show the third a  |
|  |                           | '      | A quartz apparatus to be used with sodium was shown. In this a<br>flat dish of sodium is held in vacuum under a liquid air cooled        |
|  |                           |        | surface. The absorption of Na resonance light by the space above   |
|  |                           |        | the dish is to be measured. When the upper surface is warm one   |
|  |                           |        | measures the vapor pressure; when cooled, the concentration should<br>decrease to half if the evaporation coefficient is unity, or lower |
|  |                           |        | if the coefficient is lower.   |
|  |                           |        | 83-10-21-1845  |
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| 46. | Institute                                |      | PHYSIKALISCHES INSTITUT,   |
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|     |  |      | Marburg  |
|     | Director                                 |      | Professor WALCHER.   |
|     | Date                                     | :    | Monday, 9 Oct 50; also visited 8 and 10 Oct 50.  |
|     | Visit Conducted<br>by                    |      | Professor WALCHER, Professor R HUBCKEL, Dr RECKER.   |
|     | Other Research<br>Workers<br>Encountered |      | Dr KAMKE, Professor VOGI.  |
|     | Building                                 |      | The building, up on the mountain, is very pleasant and excellently<br>suited for research. It was not touched during the war, and is<br>rather new among the prewar laboratories. It was finished in 1914,<br>and is perfectly maintained.   |
|     | Equipment                                |      | We were told that when Professor WALCHER took over, about 1947;<br>the equipment was completely old-fashioned and cutdated. This has<br>been thoroughly changed. Professor Walcher has completely re-<br>organized the student laboratories. The opinion of the students<br>is that lectures as well as the "Praktikum" are top notch in<br>Marburg. The research equipment, of which there is a lot, is<br>largely of the type which has been constructed in the laboratory<br>itself. I do not recall seeing any major instrument that was in-<br>dustrially manufactured. There are a large number of mass spectro-<br>meters of various designs and for various purposes. A chemical<br>separation plant for light isotopes has been constructed. Professor<br>Walcher hopes to acquire a Yan der Graaf machine to pursue nuclear<br>studies with separated isotopes.  |
|     | General Impress                          | sion |  |
|     | and Remarks                              |      | This is the only well equipped university laboratory we have seen<br>in the land of Hesse. It was impressed upon us that the support<br>of the laboratory does not come from the land, but from industry.<br>"The laboratory uniertakes occasional industrial jobs in order to<br>obtain money. Professor Walcher is a very active and skillful<br>director. There are a number of good men in the laboratory, and<br>there are many different lines of research. Professor Walcher's<br>own interest lies in mass spectrometers, and in nuclear research<br>with separated isotopes. He is a man who likes to work in a<br>"team". At present, his work is in close contact with Kopfermann<br>in Goettingen. Dr Becker undertakes those problems, which, in the<br>US, would be called physical chemistry, namely chemical separation<br>of light isotopes (after methods developed by HC Urey), diffusion<br>problems, and measurements of viscosity of hydrogen at low<br>temperatures. Becker is young, enthusiastic and clear and made<br>an ercellent impression. Professor Vogt is a left-over from the<br>times of Walcher's predecessor, Grueneisen. He is interested<br>in ferro magnetism, <u>Hueckel</u> , formerly with Debye, is a<br>theoretician for the experimental laboratory. Fluegge, whom<br>we met at-Ead Nauheim, is professor cf the "Institut for structure<br>of matter" in the same building; considerable, but unsuccessful<br>efforts were spent to see him. Altogether, this is a laboratory |
|     | · · · · · · · · · · · · · · · · · · ·    |      | in which it would be a pleasure to work.   |

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A. Dr Becker has constructed a plant for the separation of the isotopes of carbon. The method is that of exchange between gaseous HCN and dissolved Na CN, and follows the method used by Urey for this separation. An enrichment of Carbon 13 up to 125 is obtained. The yield is of the order of some grams per day.

b. The enriched carbon is used partly for biological research. In the physics laboratory it is a means for the study of thermal diffusion, in particular, in conjunction with enriched oxygen.

c. There exist a number of mass spectrometers. One of them is designed for gas analyses of high accuracy, for the work with partially separated isotopes. Several mass spectrometers are mainly used for the study of focusing and improving mass spectrometers. Finally, a large 90° mass spectrometer has been built to separate isotopes. This is part of a team project between Professor Walcher and Professor Kopfermann in Goettingen. The separated isotopes (they are micrograms) are taken to Goettingen for spectroscopic investigation of hyperfine structure and isotope shift. At present, silver is under investigation.

d. Dr Becker also investigated the thermal diffusion of gases at higher pressures. The fact that gases are not ideal increases the diffusion coefficient in some cases by changes up to 8004 at about 80 atmospheres. This effect has been neglected in all US work.

e. An apparatus is constructed to determine the difference in viscosity of para and natural hydrogen. Some theories predict a difference of 8%. This is definitely not found. The sensitive apparatus is built along the lines of a Wheatstone bridge. At present, it is filled with a paramagnetic gas, oxygen, to show the "Senftleben effect", namely, the change of viscosity in a magnetic field. This was demonstrated. Pressure differences of 10<sup>-4</sup> nm on the two sides of the bridge can be detected. A thin aluminum foil diaphragm moves between two condenser plates. The change in capacity is measured by amplifying a high frequency current. The force due to the pressure difference is balanced by a constant electrical potential.

A problem is taken up which goes back to Haxel and Houtermanns. These investigators found that the beta-decay of rubidium is accompanied by very low energy electrons. These are formed here also. The spectrum of the beta-particles is being measured in a proportional counter.

g. Professor Vogt studies the behavior of ferromagnetic alloys, in particular, the magneto-striction. Also, ferromagnetic materials with small grain sizes show interesting effects.

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| 47.              | Institute   | :          | PHYSIKALISCH CHEMISCHES INSTITUT DER UNIVERSITAET, MARBURG.  |
|                  | Place   | :          | Marburg.   |
|                  | Director  | :          | Professor JOST.  |
|                  | Date  | :          | Monday, 9 Oct 50.  |
|                  | Visit Conducted<br>by   | :          | Professor JOST.  |
| -<br>-<br>-<br>- | Other Research<br>Workers   |            |  |
| -                | Encountered   |            | Dr HAASE.  |
|                  | Building  | •          | Physical chemistry had been housed in part of the chemical<br>institute, which was largely destroyed during the war. Professor<br>Jost had agreed to relinquish the few remaining rooms to move<br>his institute into a private house, providing an addition would<br>be built. No addition was ever built, and during Professor Jost's<br>illness with tuberculosis, the metals institute was moved into<br>his lover floor. He now has only some four rooms in the second<br>floor. The metals institute is now moving out, but the 1000<br>D-Marks necessary to move his machine shop from its present<br>distant location are not granted. |
|                  | Equipment   | - <b>1</b> | No apparatus except for minor glassware, a few balances, and simple<br>electrical measuring <u>devices</u> , appears to be available. There is<br>one self-constructed interferometer. The budget of 4000 DM per<br>year is inadequate to permit the purchase of new equipment.  |
|                  | General Impressi  | lon        |  |
|                  | and Remarks   | •          | Professor Jost is one of the most capable German physical chemists.<br>I had the impression that his poor treatment by the Nazi Govern-<br>ment, the subsequent loss of his institute, and finally a long<br>spell of tuberculosis, had decreased his energy and aggressiveness<br>to the point where he was incapable of building a going institute<br>under the present discouraging conditions due to the Hessian<br>"Kultur Ministerium". Whether a more aggressive man might do so<br>is not clear.   |
|                  |   |            | However, his interest in science, and his originality in con-<br>ceiving and planning new experiments had not suffered. He spoke<br>of several interesting and original problems which he vished to<br>pursue, and the methods which he would like to use, but the<br>necessary modest equipment was not available. One had the feeling<br>that this was a scientist who was unable to be a successful in-<br>stitute's director under present German conditions, but who would<br>do important and successful work in any well run US department.<br>His assistant, Dr Haase, impressed us favorably.   |
|                  | Individual Rese   | arch       |  |
|                  | Problems  |            | The research centered around the properties of liquid solutions,<br>particularly those of normal organic materials in each other,<br>and an investigation of the causes of small deviations from the<br>laws of regular solutions.   |
|                  | ۵ ۲۲<br>۱۰<br>۱۰ - ۲۰ - ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰<br>۱۰ - ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ |            | a. Diffusion of two liquids into each other was studied by<br>observing the diffraction bands between two slits, behind which<br>was placed the diffusion cell.  |



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b. The total vapor pressure of solutions was measured with high precision, using the simplest device of a thermostated mercury manometer read with a cathetometer.

It was remarked that <u>dielectric</u> constant, infrared absorption, or other physical measurements on the vapor would suffice to give the vapor concentration, but the apparatus necessary could not be purchased. It was consequently necessary to limit the measurements to solutions in which only one component had high volatility.

c. The phase diagram of CuBr AgBr was to be studied. The AgBr has NaCl type lattice up to the melting point. CuBr is zinc blende type at low temperature, and has two transitions before melting. Literature data indicates that the high temperature phase forms perfect mixed crystals with AgBr over the whole concentration range. It is conceivable that a continuous transition from zinc blende to NaCl type lattice exists in going through a complete range of solid solutions at low temperature. The enormous electrical conductivity of the highest temperature modification of CuBr (higher than that of the melt) indicates that it is of x-AgI type lattice.

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| 48.                                   | Institute :                              | MAX PLANCK INSTITUT FUER PHYSIKALISCHE CHEMIE.   |
|---------------------------------------|--|--|
| · · · · · · · · · · · · · · · · · · · | Place :                                  | Goettingen.  |
|                                       | Director                                 | Professor BONNHOEFER.  |
|                                       | Date                                     | Tuesday, 5 Sep and Monday, 16 Oct 50.  |
|                                       | Visit Conducted<br>by                    | Professor BONNHOEFER.  |
|                                       | Other Research<br>Workers<br>Encountered | Dectore FOERSTER, SCHLEICHER, ERESCHE, FREISE, FRANK, GERISCHER.   |
|                                       |  | The institute is housed in one of the buildings of the former .<br>Aerodynamische Versuchs Anstalt, which was untouched by the   |
| a<br>An An<br>An An An                | Equipment                                | <ul> <li>war. The building is comparatively not value for a laboratory.</li> <li>late thirties) and seems to be admirably suited for a laboratory.</li> <li>Like all institutes of the Max Planck Gesellschaft, the funds<br/>for apparatus appear to be ample. Although the work of the<br/>institute, in the field of classical physical chemistry, does<br/>not require elaborate equipment, there appears to be no lack<br/>of apparatus to uniertake any problem of interest to the workers.</li> </ul> |
|                                       | General Impression<br>and Remarks        | : Professor Bonnhoefer is one of the outstanding octains particulated<br>chemists. <u>Bis anti-Nazi record is well known</u> . Two brothers<br>were killed following the 20 Jul 44 attempt on Bitler's life.   |
| •                                     |  | We had known Professor Ronnhosfer before the war, and had met<br>bim again in Chicago during the Berlin blockade. He received<br>us most cordially.  |
|                                       |  | The institute gave the impression of a good and lively<br>laboratory, undertaking a variety of interesting work. It<br>was not clear to what extent the work was directly due to<br>the inspiration of Bonnhoefer, or to what extent it originated<br>with the various other workers. Bonnhoefer did not speak of<br>any work that he was doing alone, except that Frank's work<br>with the passive iron wire is obviously a continuation of previous<br>work of Bonnhoefer.                                 |
|                                       | Individual Resear<br>Problems            | : a. FORRSTER. Some organic compounds, for inservice spectrum<br>acids and amines, show a sudden change in absorption spectrum<br>and in fluorescent spectrum when the pH is varied. However, the<br>two spectra do not change at the same pH values. This is<br>interpreted as being due to the different dissociation of ground<br>and excited state. The life of the excited state is usually,<br>but not always, long enough to come to equilibrium with respect<br>to dissociation.                     |
| ·                                     |  | b. SCHLEICHER is repeating the Mueller experiment with iron<br>instead of tungsten. The first pattern was obtained while we<br>were there in September 1950. Since then the iron patterns were<br>sufficiently poor that the work has returned to using tungsten.  |
| · · · · · · · · ·                     | ······································   | c. BRESCHE works on Bacteriophase. Nothing really new.   |



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d. FREISE works on copperferrocyanide membranes.

e. FRANK works on passivated iron wires. The motion of the disturbance is very much like that in nerves. Nerves of algae are also studied. Frank worked with iron wires in H<sub>2</sub>SO<sub>h</sub>, or other iron oxidizing acids, which could be passified by making the wire the anode of a cell.

f. GERISCHER. <u>Electrode processes</u>. The rate of oxidation reduction processes at the electrode surface was being studied. The ferrous - ferri rate is greatly affected by Cl = ion concentration.

| 49.     | Institute                 | •        | MAX PLANCK INSTITUT FOR PHYSICS.  |
|---------|---------------------------|----------|---|
|         | Place                     | :        | Goettingen.   |
|         | Director                  | :        | Professor Werner HEISENBERG.  |
| · · · · | Date                      | :        | Wednesday, 6 Sep and Tuesday, 17 Oct 50.  |
|         | Visit Conducted<br>by     |          | Dr HAXEL and Dr HOUTERMANS.   |
|         | Other Research<br>Workers |          |   |
|         | Encountered               |          | Professor Max VON LAUE, Professor BARN.   |
|         | Building                  | - 6<br>B | The institute is housed in the compound of the former Aerodynamic   |
|         | Equipment                 | :        | Like all Max Planck (or KWI) institutes, there is no lack of money for equipment.   |
|         | General Impress           | ion      |   |
|         | and Remarks               | · ·      | Quite a few people were away on vacation. HAXEL is leaving<br>for Heidelberg, and HOUTERMANS really belongs to the II Physice<br>Laboratory of the University; consequently, the heart and<br>interest of neither is wholly with the Max Planck Institute. This<br>may be to some extent the cause of the impression we received.<br>After having seen Dr Kopfermann's laboratory, where, with<br>little means, excellent work is done, it seemed that here,<br>with lots of money obtainable, nothing much was happening.<br>We had the feeling, although this was not expressed in so many<br>words, that our guides were not happy about the functioning of<br>the laboratory.<br>We met HAXEL at Goettingen, Heidelberg Bad Nauheim and again |
|         |                           | -        | on our return. He is a keen and very pleasant young man for<br>whom one can have great expectations. HOUTERMANS is a friend of<br>ours of very long standing. He is the kind of person who has<br>many original ideas. His history is presumably known. Since<br>he is one-quarter Jewish, he emigrated to the USSR shortly before<br>the Nazis came to power. In 1937, during a wave of arrests, he<br>decided to leave the Soviet Union, but was captured and arrested.   |
|         |                           | •        | Eis wife with two children was expelled from the USSR and is now<br>a US_citizen. HOUTERMANS was imprisoned and forced to "confess".<br>So he confessed to being an "atomic spy"! He was imprisoned<br>until 1940, and then turned over to the Gestapo and eventually<br>released in Germany. He is thoroughly anti-Soviet and knows a<br>great deal about the Soviet mentality and the attitude of Soviet<br>scientists. For instance, he regrets the publicity given to the   |
|         |                           |          | hydrogen bomb, because now the Soviet scientists will be forced<br>to work on it.   |
|         |                           | :        | HAXEL and HOUTERMANS, as well as Professor HAHN were very out-<br>spoken about their criticism of Law 22 (see general part of<br>report).   |
|         | :                         |          | Heisenberg was in the US while we visited Goettingen. We heard<br>his talk at the meeting of "Naturforscher und Arzte" in Muenchen,<br>but somehow failed to see him personally, although we have known   |
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There is probably no living scientist whose promise, at an early age, was so great as that of HEISENBERG. His more recent development has been very disappointing. We have been struck by the lack of enthusiasm for him in the expressions of other physicists. Although very little direct criticism has been expressed, it is clear that he is not held in the esteem that one would have expected from his previous history. For instance, when one speaks of the excellent work now going on in Goettingen, one frequently gets enthusiastic agreement, but always with the remark, "in Kopfermant's institute". HEISENBERG's institute is never lauded.

HEISENBERG's failure to bring positive results out of the German Atomic Energy Project during the way is a matter of record. It is curious that he vas again chosen to head an experimental institute.

#### Individual Research

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Problems

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a. HOUTERMANS works with photographic plates. One of his results was striking: The cocurrence of uranium in granite is by no means uniform. The uranium is contained in high concentration in particular crystals. This gives rise to what HOUTERMANS called "porcupine" in a photographic plate. From small spots emerge large numbers of  $\alpha$  - tracks. If this fact is not known, it might be of great industrial importance.

b. Cosmis ray work is largely aimed at solving the controversy of plural (cascale) or multiple production of mesons. HAXEL's experiments, which seem to show equal amounts or production for equal weights of graphite and parafine indicate multiple production.

c. <u>*B*-ray experiments were in progress. The claim was made</u> that the decay of Rb<sup>0</sup> is followed (in coincidence) by a completely converted *B*-ray of 5keV. The apparatus is a double counter, separated by a thin sheet on which the sample is smeared very thin. Counts on both sides as well as coincidences are measured.

d. <u>Somebody investigates the effect that a metal plate</u>, when <u>sandpapered</u>, gives off electrons. Interpreted by the assumption the number of active spots are produced on the plate. Oxygen is absorbed, and an electron is given off. The spots have different activation energy. Assumption of a continuum of activation energies gives a decay proportional to temperature and inversely to time. This is essentially what is found. The man doing the experiments is going with HAXEL to Heidelberg.

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| <u>50.</u> | Institute                    | :        | CHEMISCHES INSTITUT DER UNIVERSICAET. JOFTIINGEN.  |
|            | Place                        | :        | Goettingen.  |
|            | Director                     | ;        | Professor FROCKMANN.   |
| •          | Date                         |          | Thursday, 7 Sep and Tuesday, 17 Oct 50.  |
|            | Visit Conducted              |          |  |
|            | ру                           |          | Professor BROCKMANN.   |
| -<br>      | Building                     | :        | The building, although essentially undamaged by the war, is in<br>horrible condition. Some of the rouns have been little changed<br>in the last century. There has been a little remodeling, but not<br>much. It is hoped that more reconditioning will take place soon.<br>A new biological chemical building de an annex.  |
|            | Equipment                    |          | The equipment is modest, and rather inadequate for the number of<br>doctoral students and assistants, which number about 50 altogether.<br>The budget of 12 thousand DM per year amounts to 240 Marks or<br>some US\$60 per research worker per year. This covers chemicals<br>and equipment. The equipment in the modern biological chemical<br>building looked adequate, although not luxurious. The research<br>is presumably considerably hampared by the low budget.  |
|            | General Impressio            |          | The second state of the se |
| ·          | and Remarks                  | <b>.</b> | The institute had the Nobel Prize Winner, <u>Winlaus</u> , as its former<br>director. The work, now as then, is primarily organic, and<br>with a strong biological interest. Since this is not my field<br>I do not feel justified in commenting on the excellence of the<br>research undertaken. All indications were that the level of<br>scientific competence is high, although probably not quite up<br>to the work of Professor BROCKMANN's illustrious predecessor.   |
|            | Individual Resea<br>Problems | rch .    | Considerable work is dore on myrins. Altogether six hundred<br>species of animals have been isolated. About 60 of these yield<br>antibictics. Of these three new antibiotics have been isolated.<br>The only other single research problem which was of some physical<br>chemical interest is that of the synthesis of a light sensitive   |
|            |                              | -        | dye of St John's Wort:   |
|            |                              |          | The guinone splits cut two H <sub>2</sub> groups according to the reaction:  |
|            | 3 (                          |          |  |

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|                                       | 51. Institute                            | : INSTITUT FUER THEORETISCHE PHYSIK DER UNIVERSITAET.  |
|                                       | Place                                    | : Goettingen,  |
| · · · · · · · · · · · · · · · · · · · | Director                                 | Professor Rithard BECKER.  |
|                                       | Date                                     | : 17 Oct (40.  |
| · · · · · · · · · · · · · · · · · · · | Other Research<br>Workers<br>Encountered | : Dr LEIBFRIED, Mr KUHRT.  |
|                                       | Building                                 | : One moon, alequate.  |
|                                       | Equipment                                | : One blacktoard, adequate.  |
|                                       | General Impressi<br>and Remarks          | We first met DR_BECKER-in Bal Nauheim. He was very cordial-<br>and pleasant. He is an interesting and intelligent person.<br>This wesk-end, DR_PECKER expects to go to Pittsburgh for a<br>year. It is to be expected that his visit will be a success.<br>Professor BECKER's specialty was magnetism. The only research<br>gases. Professor BECKER is the successor of non-ideal<br>previously in Berlin but was sent away as punishment<br>(strafversetzt) to Goettingen by the Nazis around 1935. |
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| 52,               | Institute                |        | I - PHYSIKALISCHER INSTITUI DER UNIVERSITAET.   |   |
|-------------------|--------------------------|--------|---|---|
|                   | Place                    |        | Goettingen.   |   |
|                   | Director                 |        | Professor POHL.   |   |
|                   | Date                     |        | Iverday, 17 Oct 50.   |   |
|                   | Visit Conductor          |        | Dr PICK.  |   |
|                   | Other Resear             |        |   |   |
|                   | Workers<br>Encountere    | ed :   | We talked to Professor POEL at Bai Nauheir.   |   |
|                   | Building                 | 8      | The institute cocupies the second floor of the large physics<br>building. It has been located at this position for many years,<br>and nothing was destroyed. The large lecture room with store-<br>room and machine shop is on the same floor. All other rooms are<br>used for research.  |   |
|                   | Equipment                | :      | This laboratory is famous for Professor POHL's unequalled lectures<br>to beginning students. Some rooms are stored with the equip-<br>ment for the excellent demonstrations. Most of this belongs to<br>Professor POHL personally. The equipment for research is modest<br>and has always been that way   |   |
|                   | General Impr             | ession |   |   |
| -                 | and Remark               | 18 :   | Professor POHL is an old friend of ours, and greated us condially.<br>His cutating contribution to physics is his truly world—<br>famous importantiation course for beginning students. He is a very<br>skillful experimentalist. The scope of the laboratory is marrow<br>and still in the same groove in which it was 20 years ago.<br>The main conserve are imperfections in the crystal structure<br>of ionic lattices. Among these are color centers. The latter<br>which it is likeve, discovered here. This field has now become very<br>modern. Dr PICK implied that the whole field has now become very<br>modern. Dr PICK implied that the whole field has now become very<br>modern. Dr PICK implied that the whole field has now become very<br>modern. Dr PICK implied that the whole field has now become very<br>modern. Dr PICK implied that the whole field has laboratory. The<br>find any outstanding contribution make by this laboratory. The<br>reason for their like perhaps to some satent in Professor POHL's<br>contempt for theory and theoretists. POHL had, for instance,<br>20 years ago, a hearty dislike for quantum mechanics. He still<br>seems to try to avoid its concepts. Very careful experimentation<br>is performed, but greater theoretical guidance might have brought<br>more results. Professor POHL prefers to have his students con-<br>struct their own apparatus rather than buying equipment. The<br>reason for this is that he wants the student-to understand his<br>equipment thoroughly. Consequently, a PhD candidate receives<br>excellent experimental training.<br>Dr PICK made a good impression. He wants a wark alage and simple |   |
|                   |                          |        | Dr PICK made a good impression. He gave a very clear and simple<br>explanation of the general field of the work.  |   |
| · · · · ····· · · | Individual R<br>Problems | *      | All the problems of the laboratory concern the details of the<br>imperfections in simple ionic crystals which lead to light absorp-<br>tion in the general range between the infrared absorption of the<br>lattice vibrations and the true ultra violet absorption in the<br>2000 Approved for Release: 2022/06/22 C00010786 also play a role in  | - |
|                   |                          |        | The Approved for Release: 2022/06/22 C00010/86 ale play a rule and  | _ |

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|                                       | Visit Conducted                 |   |
|---------------------------------------|---------------------------------|---|
|                                       | _                               | Dr JApproved for Release: 2022/06/22 C00010786  |
|                                       | Other Research<br>Workers       |   |
|                                       | Encountered :                   | We talked to Professor POEL at Bad Nauheir.   |
|                                       | Building :                      | The institute cocupies the second floor of the large physics<br>building. It has been-located at this position for many years,  |
| · · · · · · · · · · · · · · · · · · · |                                 | and nothing was destroyed. The large lecture room with store-<br>room and machine shop is on the same filter. All other rooms are<br>used for research.   |
|                                       | Equipment :                     | This istoratory is famous for Professor POHL's unequalled lectures<br>to beginning students. Some rooms are stored with the equip-<br>ment for the excellent demonstrations. Most of this belongs to  |
| · · · · · · · · · · · · · · · · · · · | ··                              | Professor POHL personally. The equipment for research is modest-  |
|                                       | General Impression              |   |
|                                       | and Remarks :                   | His cutetanding contribution to physics is his truly world-<br>famous demonstration course for beginning students. He is a very<br>skillful experimentalist. The scope of the laboratory is narrow<br>and still in the same groove in which it was 20 years ago.<br>The sain concerns are imperfections in the crystal structure<br>of ionic lattices. Among these are only centers. The latter<br>were, litelieve, discovered here. This field has now become very<br>modern. Dr PICK implied that the whole field had started here,<br>and other people are now following. To some which it is<br>true. Hiwever, upon reflection, it is somewhat difficult to<br>find any outstanding contribution make by this laboratory. The<br>reason for this lies perhaps to some latent in Professor POHL's<br>contempt for theory and theoretists. POHL had, for instance,<br>20 years ago, a hearty dislike for quantum mechanics. He still<br>seems to try to avoid its concepts. Very careful experimentation<br>is performed, but greater theoretical guidance might have brought<br>more results. Professor POHL prefers to have his students con-<br>struct their own apparatus rather than buying equipment. The<br>reason for this is that he wants the student to understand his<br>equipment thoroughly. Consequently, a PhD candidate receives<br>excellent experimental training. |
|                                       |                                 | explanation of the general field of the work.   |
|                                       | Individual Research<br>Problems |   |
| -                                     |                                 | All the problems of the laboratory concern the details of the<br>imperfections in simple ionic crystals which lead to light absorp-<br>tion in the general range between the infrared absorption of the<br>lattice vibrations and the true ultra violet absorption in the<br>2000 Argstrom region. These imperfections also play a role in<br>the ionic conduction of the lattice, and the small photo conduc-<br>tion, which is electronic. Most of the work is done on KCl<br>crystals, although some experiments are made with other crystals,<br>especially the silver balides.   |
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In the alkalihalides the imperfections are due to the naturally occurring vacancies at lattice sites, which may, or may not, be also the location of a trapped electron or a positive charge (missing electron), and also due to the substitution of a foreign ion in place of K or Cl<sup>-</sup>. Crystals have been grown with Ca , Pb , Ba , Sr up to concentrations of about 10<sup>-4</sup> parts per lattice site, in place of K., and with NO2-, 0 , in place of Cl<sup>-</sup>. The doubly charged 0 is produced by treating a dilute single solution of NO2\_ or NO3\_ in KCl with Cl<sub>2</sub>. Gaseous nitrogen and oxygen actumulate in microscopically visible subta "bubbles" in the comystal, at concentrations up to three strospheres.

The transport numbers (ratio of the current carried by the positive ions) which have been previously reported to be above C.9 for the actions of almost all alkalifalities are being reinvestigated It is suspected that the previous results are due to the large concentration of impurities of doubly charged positive ions. (In excess over the doubly charged negative.) This is the more likely since BaCl<sub>2</sub> was used as end-crystal in the experiments. The doubly charged calibre produce an equal number of holes in the cation

The high temperature ionic conductivity is due to the equilibrium number of vacancies. The magnitude of the low temperature conductivity, which always shows a 1/T slope corresponding to an energy of 0.8 e.V., is increased greatly by the addition of doubly charged cations.

The difference between the linear thermal expansion coefficient of the lattice, measured by X-rays. and that measured by two scratches on the crystals is observed to be as high as 10% above 400° C. This is suspected to be too large to be due to lattice vacancies, but may be due to an increase in mosaic structure at the higher temperatures. The X-ray measurements are made on a bent crystal with the eighth order lines. Approved for Release: 2022/06/22 C00010786 - 75 -53. Institute : <u>II PHYSIKALISCHES INSTITUT DER UNIVERSITAET</u>.

Director

Place

: Goettingen. : Professor KOPFERMANN.

Date

: Monday, 4 Sep and Wednesday, 18 Oct 50.

Visit Conducted by

: Professor KOPFERMANN.

Other Research Workers Encountered

: Professor HOUTERMANS, Hubert KRUEDER.

: The laboratory occupies the ground floor and basement of the large physics building. Except for a small library room, a small lecture room and a few rooms used by the theoreticians the whole space is available and is being used for research. (The "praktiku for students is located on the third floor.) The space is adequate although it is no longer a very modern laboratory. No destruction of any kind occurred during the war.

Equipment

Building

: The pride and joy of the laboratory is a 6 MEV betatron, built by Siemens. There is a great deal of spectroscopic equipment interferometers, etc. Although we did not see it, there exists presumably still a large Rowland grating. Just now, Professor KOPFERMANN has received ERP money to buy a 125,000 DM, 30 MEV

General Impression and Remarks

This is the laboratory which was formerly directed by Professor James Franck. At that time, it was very widely known. Very many Americans have spent a year at this institute. It is gratifying to see that Professor KOPFERMANN has managed to bring the institute back to its former level as a top flight laboratory. During Franck's directorship, the main interest of the institute was concerned with spectroscopic investigations. Much of that line of investigation has now been taken over by chemists, at least in the US. KOPFERMANN has kept up the spectroscopic tradition but with a new emphasis, namely the determination of nuclear properties by spectroscopy. In addition, he has started several there were a considerable number of talks, namely eight, contributed by this laboratory. All of them were well presented and

Professor KOPFERMANN is an old acquaintance of mine from the time when he was an assistant in <u>Franck's</u> laboratory. He is an exceedingly pleasant and upright person, whose fundamental honesty and decency I would not doubt. His record under the Nazis bears

The laboratory, probably the best in Germany, is working on a shoestring; the yearly budget, exclusive of salaries and building maintenance is 10,000 NM. It is amazing that as much good work can be done on so little.

Professor KOPFERMANN's interest lies in measurements of nuclear Approved for Release: 2022/06/22 C00010786ifts. For this purpose. Visit Conducted by

: PApproved for Release: 2022/06/22 C00010786

: Professor HOUTERMANS, Bubert KRUEBER.

Other Research Workers Encountered

Building

Equipment

: The laboratory occupies the ground floor and basement of the large physics building. Except for a small library room, a small lecture room and a few rooms used by the theoreticians the whole space is available and is being used for research. (The "praktiku for students is located on the third floor.) The space is adequate although it is no longer a very modern laboratory. No destruction of any kind occurred during the war.

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The laboratory, probably the best in Germany, is working on a \_\_\_\_\_\_ shoestring; the yearly budget, exclusive of salaries and building maintenance is 10,000 DN. \_\_It is amazing that as much good work \_\_\_\_\_\_

Professor KOPFERMANN's interest lies in measurements of nuclear spins, quadrupole movements and isotope shifts. For this purpose, he needs badly some separated stable isotopes in small quantity. These are widely available in the US, but are impossible to obtain here. Professor Walcher in Marburg is undertaking some isotope separation in minute amounts in conjunction with KOPFERMANN's

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Initvidual Research Problems

a. The laboratory has a <u>6 MEV betatron</u>, constructed by Siemens. The electrons are brought out of the tube by the use of a thin aluminum scatterer, and subsequent use of electrostatic deflection. A 705 yield of electrons is obtained. The electrons are highly monochrometic (to one per mil) from one to six million volts. The current is 10-7 amperes. This betatron is said to be an extremely sturdy instrument. The apparatue is used in conjunction with the medical faculty (Martius) for the treatment of surface or near surface cancer. By variation of the aperture through which the electrons pass, and variation of voltage, the depth of the maximum ionization can be varied. This is tested on KCl crystals, by the density of colour centers.

The scattering spectrum of the monochromatic electrons was measured at angles from 0 to 90 degrees, by using a beta ray spectrograph. Also, the dissociation of the deuteron was studied. This work is mainly under Dr Paul.

#### b. Brix, Spectroscopy.

Determination of magnetic mements, quadrupole toments and isotopic shifts. This is excellent work. It would be highly desirable to make available separated isotopes, which Dr KOPPERMANT does not seem to be able to obtain. In particular, radius D, (Pt 209) should be supplied.

c. Hubert KRUEGER.

Working on magnetic and quadrupole moments by a variation of the Bloch-Purcell method.

In addition, observation of resonance due to quadrupole moments alone, in cases where no (or almost no) magnetic field exists at the place of a nucleus, but a gradient of an electric field. Such a case would pertain, for instance, at the position of a Clor I atom in SnCl 4 or SnL. In the crystal, the symmetry may be dislocated. In the case of the iodide, spin 5/2, the transitions  $\frac{1}{2} \rightarrow \frac{1}{3}/2$  and  $\frac{1}{3}/2 \rightarrow \frac{1}{5}/2$  should have a frequency ratio 112 for the free molecule. A deviation from this ratio is a measure of the local deviation of the magnetic field in the crystal at the point of the atom in question. In the case of SnL, one I atom sits at a point of undisturbed (trigonal) symmetry, the other 3 do not. Consequently, two sets of lines are found.

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| 54.                                   | Institute                             | :                                      | 111 PHYSIKALISCHES INSTITUT DER UNIVERSITAET.   |
|---------------------------------------|---------------------------------------|--|---|
|                                       | Place                                 | :                                      | Goettingen.   |
|                                       | Director                              | :                                      | Professor E MEYER.  |
| · · · · · · · · · · · · · · · · · · · | Date                                  | :                                      | Wednesday, 18 Oct 50  |
|                                       | Visit Conducted<br>by                 | :                                      | Professor MEYER and Professor KOENIG.   |
|                                       | Other Research<br>Workers             | _                                      |   |
|                                       | Encountered                           | ÷                                      | Dr TAMM, Dr KOPPELMANN.   |
|                                       | Building                              | *                                      | The institute is located in two separate buildings. One is the<br>old "Angewandte Electrizitaet", formerly the building of Professor<br><u>Reich.</u> It is old, old fashioned and small. A new institute<br>was constructed during the war for Applied Mechanics, formerly Dr<br><u>Schuler. It consists of an old villa vith very considerable</u><br>additions. It is well suited for the purpose.   |
|                                       | Equipment                             | :                                      | The equipment seems to be adequate. There exists several sources of ultrasonic waves, and a good Siemens electron microscope.   |
|                                       | General Impressi                      | on "                                   | · · · · · · · · · · · · · · · · · · ·   |
|                                       | and Remarks                           | •••••••••••••••••••••••••••••••••••••• | In 1947, the former Institutes of Applied Mechanics and Applied<br>Electricity_were united to form the third Physikalisches Institut<br>under Dr <u>Reich. The laboratory is very much "applied". It con-</u><br>cerns itself with industrial applications. For instance, an<br>instrument for the measurement of upplitudes of ultrasonic waves<br>in metal structures is being constructed for the US Navy.<br>Acoustic design for theaters and lecture halls is undertaken.<br>The main scope of the laboratory is acoustics, with ultra sound,<br>and electromagnetic waves. There exists a good "praktikum" to<br>complement the less technical one given by Kopfermann. Most of<br>the work of this institute is out of cur line. Only a few details<br>will te reported. |
|                                       | Individual Resea                      | rch                                    |   |
|                                       | Problems                              |  | a. Dr KOENIG directs the work with the electron microscope.<br>His main interest is in details of the preparation of specimens.<br>Benzol absorbed on specimens can be carbonized in an oven, and<br>the specimens later removed, say by acid.<br>The carbon covering then gives a sufficiently transparent<br>picture to see details in portions which would otherwise<br>be too thick.  |
| 4<br>-<br>-<br>-                      |                                       |  | By taking pictures at two slightly different angles of the specimens very beautiful stereoscopic pictures can be obtained in which remarkable detail is visible.  |
|                                       | · · · · · · · · · · · · · · · · · · · |  | b. The absorption of sound in the region 10 to 400 kilo Herz<br>(10 <sup>4</sup> to 4 X 105 sec <sup>-1</sup> ) by water solution of various salts was<br>studied by Dr TAMM. The results were very difficult to in-<br>terpret. The absorption is not the sum of the absorptions of the<br>ions, even at quite low concentrations. For instance, MgSO4<br>absorbs in the region of 6000 whereas both Na <sub>2</sub> SO4 and MgCl have<br>lApproved for Release: 2022/06/22 C00010786ption per mol at low  |
|                                       | 4.<br>                                |  | Approved for Release: 2022/06/22 CUUUTU/869 VICE PER MOL AV   |

| Visit | Conducted |
|-------|-----------|
| by    |           |

: Dr TAMM, Dr KOPPELMANN.

Other Research Workers Encountered

Building

: The institute is located in two separate buildings. One is the old "Angewandte Electrizitaet", formerly the building of Professor Reich. It is old, old fashioned and small. A new institute was constructed during the war for Applied Mechanics, formerly Dr Schuler. It consists of an old villa with very considerable additions. It is well suited for the purpose.

Equipment

: The equipment seems to be adequate. There exists several sources of ultrasonic waves, and a good Siemens electron microscope.

General Impression and Remarks :

In 1947, the former Institutes of Applied Mechanics and Applied Electricity were united to form the third Physikalisches Institut under Dr <u>Reich</u>. The laboratory is very much "applied". It concerns itself with industrial applications. For instance, an instrument for the measurement of amplitudes of ultrasonic waves in metal structures is being constructed for the US Navy. Acoustic design for theaters and lecture halls is undertaken. The main scope of the laboratory is acoustics, with ultra sound, and electromagnetic waves. There exists a good "praktikum" to complement the less technical one given by <u>Kopfermann</u>. Most of the work of this institute is out of cur line. Only a few details will be reported.

Individual Research 🔤

Problems

: a. Dr KOENIG directs the work with the electron microscope. His main interest is in details of the preparation of specimens. Benzol absorbed on specimens can be carbonized in an oven, and the specimens later removed, say by acid.

The carbon covering then gives a sufficiently transparent picture to see details in portions which would otherwise be too thick.

By taking pictures at two slightly different angles of the specimens very beautiful stereoscopic pictures can be obtained in which remarkable detail is visible.

b. The absorption of sound in the region 10 to 400 kilo Herz (10<sup>4</sup> to 4 X 10<sup>5</sup> sec<sup>-1</sup>) by water solution of various salts vas studied by Dr\_TAMM. The results were very difficult to interpret. The absorption is not the sum of the absorptions of the ions, even at quite low concentrations. For instance, MgSO4 absorbs in the region of 6000 whereas both Na<sub>2</sub> SO4 and MgCl have low absorptions of about 400. The absorption per mol at low concentrations increases rapidly, but is relatively independent of concentration at higer concentrations (above 0.02 mols/ liter).

The technique is to pass a pulse of given frequency into a large vessel, and observe the decay over a 10<sup>6</sup> fold energy range on an oscillograph.

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| <br>55. | In | stit | ute |  |
|---------|----|------|-----|--|
|         |    |      |     |  |

Place

Date

#### MAX PLANCK INSTITUTE, DIVISION OF "INSTRUMENTENKUNDE".

: Goettingen.

Director

Dr Konrad BEYERLE.

Wednesday, 18 Oct 50.

General Impression and Remarks

: This was a purely accidental meeting in a restaurant in Goettingen on our last evening. BEYERLE is the older brother of a childhood friend of mine, whom I had not seen since I was 12 years old, and who then impressed me with his "electrical laboratory" in a cellar room. He was very cordial, and had a number of interesting things to report. During the war, he was associated with <u>Harteck in an attempt</u> to separate uranium isotopes with the help of an ultracentrifuge. He is, of course, very much interested to know what was done in the US along that line. For other isotopes than uranium, this method of separation holds some promise. It would be interesting to compare the German advances and technics improvements with those made in the US. BEYERLE and <u>Harteck</u> (Hamburg) are going on with this work.

A calculating machine using the binary system is being con-

Mr REYERLE is regarded as an unusually competent engineer. This was confirmed in Hamburg (by B Jensen). The ultracentrifuge of Harteck has been, to a large extent, constructed by BEYERLE.

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56. Institute Place

Date\_\_\_

PHYSIKALISCE CHEMISCHES INSTITUT DER UNIVERSITAET, COETTINGEN.

: Goettingen.

: Wednesday, 18 Oct 50.

An attempt to visit this institute on this date.

Since Eucken's recent death, the institute has no director. The senior assistant, Dr Wicke, was at the Bunsen Tagung at Karlsruhe on this date, and no other assistant was in the building.

According to second-hand reports, and a few laboratories into which I looked, the institute does not appear to be in first class condition. SiApproved for Release: 2022/06/22 C00010786e has no director. The senior assistant, Dr wicke, was at the Bunsen Tagung at Karlsruhe on this date, and no other assistant was in the building.

According to second-hand reports, and a few laboratories into which I looked, the institute does not appear to be in first class condition.

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#### CONFIDENTIAL/US OFFICIALS ONLY

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| 57. | Institute                 |      | PHYSIKALISCHES INSTITUT DER UNIVERSITAET.  |
|-----|---------------------------|------|--|
|     | Place                     | :    | Hamburg.   |
|     | Director                  | :    | Professor FLEISCEMANN,   |
|     | Date                      | :    | Thursday, 19 Oct and Friday, 20 Oct 50.  |
| -   | Visit Conducted           |      | Professors FLEISCHMANN and BAGGE.  |
|     | Other Research<br>Workers |      | •<br>•   |
|     |                           | . ‡  | Dr SCHOPPER, Dr KOLLATH and, unexpectedly, Professor Eans JENSEN<br>from Heidelberg, who was on a visit.   |
| ·   | Building                  |      | The Physics Department is located in one side of a building of<br>which the other side is occupied by Chemistry. During the war,<br>a bomb demolished part of the Chemistry wing, and the Physics<br>Institute was badly shaken and burnt. Reconstruction is now<br>under way. The slowness of this process is partly due to the<br>fact that the previous physicist retired in 1945, and FLEISCHMANN<br>has been in Hamburg only two years. A large lecture room and a<br>Van der Graaf machine are being constructed. When all this is<br>finished, the building will be adequate. |
|     | Equipment                 | : :  | Preparations are made for a 3 MEV pressure Van der Graaf machine.<br>There are two mass spectrometers, a Wilson camera, counters and<br>a good deal of optical equipment.  |
|     | General Impressi          | ~~   | i de la companya de l  |
|     | and Rémarks               | С. 1 | When Professor FLEISCHMANN took over; the laboratory was, as he  |
|     |                           | • •  | calls it, a "museum". His predecessor had not been a very active   |
|     |                           |      | physicist and had collected a great deal of very old-fashioned   |
|     |                           |      | physical apparatus. Very little money had been spent on physics.   |
|     |                           | -    | FLEISCHMANN seems to have made the government understand that  |
|     |                           |      | this will have to change.  |
|     |                           |      | FLEISCEMANN received us very cordially. He is reported to have   |
|     |                           |      | been a convinced Nazi during the var, but a "decent" one; that   |
|     |                           | -    | is, he did not denounce anybody. He was Professor in Strasbourg,   |
|     |                           |      | and thus became the first prisoner of the "Alsos" mission. He  |
|     |                           | :    |  |
|     |                           | 1    | worried about the Soviet boundary, only 30 kilometers away. He   |
|     |                           |      | does not want to leave, but expressed hope that the US occupation  |
|     |                           |      | forces would not let him fall into the hands of the Soviets.   |
|     |                           |      | FLEISCHMANN is a nuclear physicist, and will return to his   |
| ,   |                           |      | chosen field when he obtains his 3 MEV pressure Van der Graaf.   |
|     |                           |      | In the meantime, he has put the optical equipment he inherited   |
|     |                           |      | to some good use. He is a pupil of Pohl in Goettingen and has  |
|     |                           | :    | resumed some studies of dichroism and other optical phenomena,<br>which have interested him a long time.   |
|     |                           |      |  |
|     |                           | -    | Professor BAGGE is relatively young and has the ambition to become   |
|     |                           | :    | a fusion of theorist and experimentalist like Fermi. His interests   |
|     |                           |      | are cosmic rays.   |
|     |                           |      | Professor Jensen (Heidelberg) happened to be in Hamburg on his way   |
|     |                           |      | from Copenhagen. We had corresponded a good deal during the last   |
|     |                           |      | year since we had quite independently, published very similar  |
|     |                           |      | papers. Jensen was extremely cordial and pleasant. He is   |
|     |                           |      | certainly a very good physicist.   |
|     |                           |      | AAA AAAAAA . A ' LASA' BAAA Sada AAAAAA  |



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Individual Research

Projects

: a. H SCHOPPER, under FLEISCHMANN's direction, is studying the optical constants of thin metallic films. By using a simple new device, requiring two quarter-wave plates, he is able to measure exactly the shift of interference fringes coming from two rays, of which one has traversed or been reflected from a metal film. In this way he can determine independently the refractive index, absorption coefficient and thickness of the film. This is very good experimentation, which could have been, but has not been, performed 60 years ago.

b. Extremely thin layers of alkali metals on glass or quartz show pronounced dichroism. Light is absorbed when the electric vector is normal to the layer. The occurrence of this layer depends, in an unknown manner, on the surface on which it is absorbed.

c. Dr KOLLATH wants to determine the <u>dependence of the scattering</u> cross-section of electrons on the direction of the <u>electron spin</u>. This requires an apparatus in which an electron beam is scattered on an atomic beam, and the electrons scattered at right <u>angles</u> are, in turn, scattered by a second atomic beam. It is not clear yet whether at the end there will be enough electrons left to be measured.

d. Dr BAGGE is interested in determining the ratio of the numbers of positive and negative mesons in the cosmic radiation. For this purpose, he uses some kind of magnetic lens which will collect either the positive or the negative mesons. A counter four meters above and four meters below the lens are in a coincidence circuit. He has been able to measure the positive excess up to 10<sup>2</sup> electrons volts of energy.

e. A Wilson camera is used to determine the scattering of mesons in a lead plate.

f. Two mass spectrometers for determination of abundances have just arrived and are being adjusted.

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| incred -      | Hamburg.<br>Professor HARTECK.<br>Thursday, 19 Oct 50.<br>Professor JKNEEN of Heidelberg.<br>The building is the small, but excellent research building con-<br>structed by Stern. It contains no rouses for "Praktikum" or<br>lectures, which is a great disadvantage at present since the<br>chemistry institute, mext door, has been destroyed by bombing<br>and is not yet rebuilt. The research rooms, however, are<br>excellent.<br>In addition to the usual physical chemical equipment, which<br>appears to be good, there are two large ultracentrifuges for<br>isotope separation. These are described in more detail under  |
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|               | "Individual Research Projects".  |
|               | A hydrogen liquefier is in the building.   |
| mpressioa_    |  |
|               | Prefessor HARTECK was not in town, but was met later (Nonday,<br>23 Oct 50) at the Naturforscher und Arste Tagung in Munich.<br>Professor Jensen was staying in Professor HARTECK's office<br>during a short sojourn in Hamburg on his way home to Heidelberg<br>from Stockholm. He took us around the institute, but the visit<br>did not include all research rooms.<br>The somewhat fragmentary impression was of a busy and excellent<br>laboratory. The main interest of the laboratory seems to be<br>centered on isotope separation. The laboratory is the center<br>of work in this field in Germany. During the var it was here<br>that such work was done as the separation of uranium isotopes.<br>However, Heisenberg had always opposed isotope separation as<br>an industrial process on the German uranium project, so that the<br>work here was on a trivial scale compared with the US effort.<br>Hevertheless, considerable general informatica has been obtained<br>and techniques were worked out.<br>HARTECK is a very lively and extremely enthusiastic scientist,<br>somebody who never seems to tire and enjoys "talking shop" at<br>all occasions. His talk at the meeting of "Maturforecher und<br>Arste" was in the US during this year and is returning to the<br>US in December, but not permanently. |
| 1 Research    | ·  |
| te t          | a. The most outstanding project is that of the ultracentrifugal<br>separation of gaseous isotopic mixtures. The present apparatus<br>works on a batch system. Two essentially identical centrifuges<br>have been built and are in operation; but they work as single<br>units.   |
|               | l Research   |

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The single unit is a 150 mm diameter aluminum alloy cylinder, about one meter in length. The cylinder is electrically driven by an axial 660 cycle electric motor from which the centrifuge hangs. Rotational velocities up to 50 thousand rpm are obtained.

The gas is fed into the center of the centrifuge by a steel capillary, and after equilibrium has been obtained it is removed by the same capillary, the lighter isotope enriched gas from the center coming out first.

Selenium isotopes have been enriched by this method, using M2Se as carrier gas.

It was originally intended to use the two centrifuges in series as a continuously operating system. By having a system of baffles in the single centrifuge, so that the outer component of one compartment flowed into the inner part of the next compartment, each centrifuge became a multiple stage separator. By running one centrifuge feater than the other it pusped from the second. This is not used at present.

The use of N2 as stabilising gas is an important improvement.

Due to small temperature gradients, or changes in speed, the gaseous contents of a centrifuge tend to get into turbulence, upsetting the equilibrium conditions. If considerable H<sub>2</sub> is present, the gases separate quickly so that the average molecular weight of the gas mixture depends strengly on the gravitational field. As a result, the mixture is very stable, and no turbulent convection occurs.

b. An interesting new method of enrichment of deuterium in hydrogen gas has been worked out, using low temperature absorption of the gas on silica gel. The gas pumped off the absorbent is almost purely the light isotope. Single stage enrichment factors of greater than one hundred are obtained. The low temperatures are those of liquid hydrogen.

c. The hydrogen content of the atmosphere has been investigated and found to be 1/45,000 not 1/60,000 as previously reported. Tritium has been found in this hydrogen.

d. There was some discussion of a method for the separation of isotopes which was new to us. It was referred to as the "Isotopen schleuse". Its principle is that evaporated gases of a certain temperature are sent through two rotating slots. The different speeds of the molecules with different isotopes are this way used for the separation.

c. A stationary Wilson cloud chamber. This we did not see, since it is new and Jensen had not heard of it. MARTECK described it to us in Munich. The principle consists of the construction of a vessel with a temperature gradient between a water layer at plus 30 degrees and a layer at minus 30 degrees. At some places, the air is always supersaturated, so that the chamber is always ready and no expansion is required. The great advantage is that there is no limit to the size of this type of cloud chamber.

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| 59. | Institute                 | ç     | MUENCHEN UNIVERSITY.   |
|-----|---------------------------|-------|--|
|     | Place                     | 1     | Maich.   |
|     | Directors                 |       | Professor BOPP, Theoretische Physiks.<br>Professor GHRLACH, Experimental Physik.<br>No director, Physikalische Chemie.   |
|     | Visit Conducted<br>by     | •     | Professor BOPP.  |
|     | Other Research<br>Vorkers |       |  |
|     | Encountered               | 0     | Not at the laboratory, but at a beer party for the Naturforscher<br>upd Arzte mesting: Professor GFRLACH and Professor SOMORFELD.  |
| ٢   | Building                  | •     | The buildings of the university are thoroughly destroyed, and<br>little attempt has been made to rebuild them.   |
|     | Equipment                 | :     | Extremely poor.  |
|     | Constal Impressi          | 200 8 | ······   |
|     | ant Besserts              |       | We visited Professor BOPP, whom we had previously encountered<br>in Bad Manheim. He has a few pleasant rooms in an undestroyed<br>part of the university. The main equipment of a theoretician,<br>the library, was completely destroyed. However, Professor<br>SOMMERFED put his personal library at the disposal of the<br>institute, so that the situation for theoreticians is not too<br>bad. Professor BOPP is a young man of some reputation. His<br>interest is in quantum electrodynamics.<br>Professor BOPP painted a very sad picture of the state of affairs<br>at Maenchem University. Indeed, he told us that there was<br>mothing to see. The experimental physicists have been working<br>in some heles in the ruins of the former building. We saw<br>those, and it is indeed the worst laboratory in the country.<br>At present, their equipment is dismentled, in order to be taken<br>to some rebuilt reems. Professor GERLACH, the director, is,<br>for the third time, rector of the university and very busy with |
|     |                           |       | an infinity of ether things.<br>The physical chemistry laboratory is essentially destroyed.<br><u>Clusius was director</u> , an excellent man. He got an effer from<br>the University of Zuerich in 1947, which he could accept only<br>by crossing the boundary into Switzerland secretly. It is said<br>that the ES eccupation forces would not have let him leave the<br>country. <u>Clusius has not been replaced</u> .<br>Chemistry seems to exist mainly in some suburbs. We saw a<br>student, on a PhD thesis, who did her research work in the<br>cellar of her home!<br>Altogether, the impression is that Musanchen, at present, is<br>completely dead.  |
|     |                           |       | It was pleasant to see Professor SOMERFELD again. He has an  |
|     |                           |       | excellent memory for people, and is quite up-to-date on recent   |
|     |                           |       | literature and on US developments.   |

|         |                                 |   | Approved for Release: 2022/06/22 C00010786   |
|---------|---------------------------------|---|--|
| 60.     | 1. xv31.CD                      | ŝ | NATURFORSCHER UND ABRZIE TARUNY.   |
|         | es 12 7                         | 8 | Maicho   |
|         |                                 | 2 | 22-24 Oct 50.  |
|         | General Improvel<br>Bue Romanie | 1 | This meeting is an institution which was founded about 150 years<br>ago. In former years must special meetings, like those of the<br>physicists, of pediatricians, etc, were held in comjunction with<br>it.   |
|         |                                 |   | This year, the "Tagung" was essentially held to reconstruct the<br>old organization. None of the specialized meetings were held,<br>only the general show-lectures were given. The attendance was<br>relatively small, and mainly composed of physicisms.  |
| · · · · |                                 | • | Of the infinite number of "Begraderungsansprachen" on Sunday,<br>only one stands out, the lecture by the Bundespresident, <u>Heuss</u> .<br>It was an excellent free speech of an exceedingly well educated<br>man.<br>The physics lectures on Monskay were devoted to a review of the<br>development of quantum mechanics: Esisanberg, Laus, Harteck.<br>Heisenbarg's lecture was not outstanding; the other two, poor.<br>Some comments about a few things that annoyed us are in the<br>general part of the report. On Tussday, Veyl of Princeton, gave<br>an almost two-hour talk on relativity, which only a few specialists<br>could understand. This was followed by an excellent lecture by<br><u>Heckmann on cosmology</u> , and an almost equally good one by the<br>asternoomer <u>Kieple</u> .   |
|         | Scientists<br>Recountered       | • | a. Professor <u>Hechmann</u> , <u>astronomer</u> , <u>Hamburg</u> .<br><u>Hechmann</u> vas a good friend of ours in former times. Ve spent<br>a good deal of time with him. He has since become one of the<br>best astronomers in Germany. That he is held in high regard<br>by US astronomers is borne out by the fact that he was invited<br>to a visit of all major US observatories last spring. <u>Hechmann's</u><br>lecture at the mesting was truly outstanding. <u>Hechmann Eny</u><br>establish an astronomical observatory, run by the Hamburg<br>astronomy department in San Salvador, if observing conditions,<br>as shown by miteorological observations this year, are con-<br>sidered good enough.<br><u>Kechman's record under the Mari Government was excellent.</u> He<br>is a truly bonert, forthright and decant person. He guarded his<br>children against national socialist influences by bringing them |

b. Professor Kienle, astronomer, Meidelberg.

cooperate with the USSR.

up in a religious tradition. He and his family would never

We knew <u>Kienle</u> when he was Professor in Goettingen. He has since been in Potsdam and left there a few months ago, with full Soviet permission, to take the chair in Heidelberg. His budget in Heidelberg will be less than one-tenth of that of the Potsdam observatory. But he felt that he could not stand the life under the Soviet occupation any longer. He felt free to talk about the conditions in the Eastern Zone. His reports were very disquisting, and are discussed in the general part of the report.

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c. Professor Wolfgang <u>Heubner</u>, pharmacology, Freie Universitast, Berlin.

How he and his wife kept out of a concentration camp during the Nazi regime is not clear to me. They helped and hid Jews by every method at their disposal. At present, they still talk about the terrible injustices done by the Nazis, but not about their own misfortunes.

#### d. Professor von Laus.

We also met him in Goettingen. He stayed with us when he received an honorary degree in Chicago. His upright record under the Maxis is well known. He is one of the few surviving physicists who contributed to the great are of science development in Germany.

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| 61. | Institute                       | :         | PHYSIKALISCHES DESTITUT DER TECHNISCHE HOCHSCHULE, MUKECHEN.   |
|-----|---------------------------------|-----------|--|
|     | Place                           | : :       | Nmich.   |
|     | Directer                        | •         | Professor J008.  |
|     | Date                            | :         | Wednesday, 25 Oct 50.  |
|     | Visit Conducted                 |           |  |
|     | by                              | :         | Professor J008.  |
|     | Building                        | :         | The building is an elegant, spacious structure of the 1920's.<br>It was damaged, suffered severely from neglect, but is now re-<br>paired and calarged.  |
|     | Equipment                       | 9         | Most prevar equipment was lost due to neglect and theft. The<br>process of rebuilding apparatus has only just begun.   |
|     | General Impressi<br>and Remarks |           | JOOS is a cross between an experimentalist and a theorist.<br>Whenever he is mentioned by his colleagues, it is said that<br>he is such a difficult person. To us, he was condial and<br>pleagant. We has had an unfortunate postwar experience.<br>He come to Maenchan in 1945 and was invited by the Signal Corps<br>to come to the US in 1947. He seems to have had the impression<br>that he was invited to a bons fide research position at Boston<br>university. This was not the case. He was considered a "non-<br>eristing alien", his mail yas conserved and held up. There was<br>no equipment for any kind of research. He was not able to make<br>contacts with other scientists in the US. He left in 1949, al-<br>though his family would have like to stay. Shortly before he<br>left he was given a regular immigration visa. He holds a "permit<br>to reenter" the US, which could be extended, but he intends to<br>let it lapse. JOOS is quite bitter about this experience. He<br>did not say too much about it to us, but we hear from many<br>sides that he is very vociferous in scolding.<br>JOOS is not a man with many ideas, but a good physicist. His<br>inboratory suffered during his absence less from the original<br>damage but from severe medicet of the necessary repairs. It is<br>nov in good condition. JOOS has so far spent his efforts more<br>on reconstruction of the teaching facilities that on research.<br>A beautiful new lecture room has been built, although it does<br>not seem as efficient as these constructed by Pohl asi his<br>spuils. The rooms and equipment for the "praktikum" are wall<br>laid out and designed. Yery little actual research is going on. |
|     |                                 | -         |  |
|     | Individual Rese<br>Problems     | arcì<br>: | a. There is in construction equipment for measuring the meutrons<br>from the D-D reaction. JOOS intends to study methods of making<br>phetographs sensitive to newtrens. This could be done, for<br>instance, by bathing the plates in boron. He would like to study<br>newtron diffraction on crystals, and was very disappointed when<br>Lame, at the meeting of the Maturforscher und Aerzte Tag, showed<br>some beautiful US photographs of just this work.  |
|     | •                               | •         | b. JOOS is interested in spectra of crystals. He used to work<br>on rare earth salts, which are now essentially "finished". In<br>Goettingen, he worked on uranyl salts, in which hydrogen was re-<br>placed by deuterium. This type of work was extensively pursued<br>during the war in the US. His interest is now in the salts of<br>obvomium  |

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| 62.                                   | Institute        | ÷               | IESTITUT FUER ARGEWANDTE PHYSIK DER TECHNISCHEN HOCHSCHULE,<br>MUERCHEN.   |
|---------------------------------------|------------------|-----------------|--|
|                                       | Place            | :               | Munich.  |
|                                       | Director         | 8               | Professor MRISSIER.  |
|                                       | Date             | \$              | Wednesday, 25 Oct 50.  |
|                                       | Visit Conducted  |                 |  |
|                                       | ру               | :               | Professors MEISSNER and SCHUBERT.  |
| · · · · · · · · · · · · · · · · · · · | Building         |                 | The institute is in one wing of the enormous Technische Hochschule<br>This wing was not bedly damaged during the war and is large, with<br>large pleasant rooms well suited for research.  |
|                                       | Rquipment        | - <b>b</b><br>9 | No very special apparatus was seen, but there seemed to be an  |
| <b></b>                               | General Impressi | iou             |  |
| 21 <b>-5</b> -7                       | and Remarks      | ₽<br>₽<br>₽     | Professor MEISSNER's main field of work is in super-conductivity,<br>which work is conducted at the laboratory in Herrsching. In<br>this laboratory the emphasis is on diplom and doctoral disserts-<br>tions. Much of the work is on applications, and some of it done<br>for industrial firms or government bureaus in order to obtain<br>some money for the laboratory.   |
|                                       |                  | •               | Professor MRISSNER appears much younger and more vigorous than<br>one would expect for a man of his age (62). He was extremely<br>cordial, and not in the least stiff. One had the impression<br>of greater cooperation and friendship between the chief and the<br>students than is frequently scen. All students were introduced,<br>and asked to explain their work. Although the student was<br>frequently interrupted by MRISSNER, when the explanation was<br>thought to be too detailed or inadequate, this was done in a<br>friendly way. The general atmosphere of this laboratory was<br>hearty. |
| <b>-</b> ·                            |                  | 2               | Professor SCHUBERT was "house theoretician" and has just<br>accepted a call to Mainz as "Extraordinarius". We obviously<br>loves and worships his chief. He gave the impression of con-<br>siderable ability, although lacking MEISSNER's fire and<br>originality.   |
|                                       | Individual Resea | arch :          |  |
|                                       | Problems         | • <b>1</b>      | a. Several of the problems were of purely industrial nature,<br>including a room for the study of the sound absorbing qualities<br>of building materials. One problem, the testing of gaming machine<br>was amusing. Pure chance machines were tested to see if they were<br>honest. Other machines, in which a skill element was supposed<br>to be involved, were also tested.  |
|                                       |                  |                 | b. The heat conductivity of large samples of materials,<br>especially building materials, were determined, both slightly<br>above and below room temperature.  |
|                                       | <br>             | •               | c. Single crystals of metals, thallium and indium alloys, were<br>grown in the form of thin long <u>samples</u> in glass capillarics.<br>These are for use in experiments on superconductivity. The<br>crystals were then tested to see if they were actually single<br>crystals.  |

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(1) One method of test is to observe the plane of polarization of the light reflected by the crystal from a polarized incident beem. The crystal is then moved axially so that the position at which the reflection occurs is changed. If the plane of pelarization changes, then the crystal is not a single crystal.

(2) An X-ray camera is set up and a photograph of a portion of the wire is taken. The wire is then moved anially so that a new spot is exposed. If the two photographs overlap, then the crystal is single.

(3) Metal vires grown in glass tubes usually show considerable distortion from true single crystals due to the strains produced by the fact that the melt adheres to the glass valls. If the glass is coated on the inside with soot, this does not occur. The soot coating is accomplished by sucking a benzene flame into the capillary.

d. An apparatus following the Purcell method for determining nuclear spins was being constructed.

e. The Benedix effect (see Gobrecht - Berlin) was to be tested, using rings in which the temperature gradient is different on the two sides.

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| 63.         | Institute                             | : KAELTE LABORATORIUN DER BAYRISCHEN AKADENIE DER VISSERSCHAFTER   |
|             | Place                                 | : Herrsching (40 km south of Munich).  |
| · · ·       | Director                              | : Professor MEISSEER.  |
|             | Date                                  | : Wednesday, 25 Oct 50.  |
|             | Visit Conducted                       |  |
|             | ру                                    | : Professor MKISSNER, Professor SCHUBERT, Dr Hans MKISSNER (son<br>of Professor MKISSNER).   |
|             | Other Research<br>Vorkers             |  |
|             | Becountered                           | : Dr SCHORISSER (1).   |
|             | Building                              | : The institute is housed in two small one-story barracks, one of<br>which, the main laboratory, is well constructed; the other, which<br>houses the shop, offices, and some living rooms is of wood.<br>Both buildings were well remodeled for their present use, and<br>the institute although small epopared to be well and pleasantly<br>housed. There is no library, which is a disadvantage since<br>the distance to Munich is not negligible. |
|             | <b>Equipment</b>                      | : The chief equipment of this laboratory consists of good air-<br>and helium-liquefiers. This is the only place, except Erlangen,<br>that we have seen a helium-liquefier in Germany, and it is the<br>only place in which helium is liquefied in quantity.  |
|             | •                                     | The electrical equipment for making magnetic and electrical measurements was also satisfactory and adequate.   |
|             |                                       | It is intended to purchase a new compressor and construct a hydrogen-liquefier.  |
|             | General Impression                    | · · · · · · · · · · · · · · · · · · ·  |
|             | and Remarks                           | : Professor MEISSNER is one of the vorld's leading experimentalists<br>in the field of superconductivity. He also has considerable<br>theoretical ability and understanding in this field.   |
|             |                                       | Professor MELSSNER will keep this laboratory after his retire-<br>ment from the university.  |
|             |                                       | MEISSNER's laboratory has been renowned in the past for its<br>excellent machine shop, and the collaboration between shop  |
|             |                                       | and scientific workers. This tradition was broken during the<br>war and is being gradually rebuilt. The shop here manufactures<br>the liquefiers, which are reasonably complicated and difficult.  |
|             |                                       | In addition, the shop, in collaboration with Dr Hans MELSEMER,<br>had developed wire presses for extruding fine wires of metals<br>such as lead and bismuth, not normally purchasable in wire form.  |
|             |                                       | We were introduced to the master mechanic as "the soul of the<br>laboratory" and to his assistants. The same hearty cooperative<br>tone that we noticed in MEISSNER's Technische Hochschule institute<br>prevailed here.   |
|             | - · ·                                 | Young Hans MRISSNER impressed us as a skilled experimenter,<br>enthusiastic in his interest, and probably a very excellent   |
| · · · · · · | · · · · · · · · · · · · · · · · · · · | physicist. It would be desirable to have him visit the US;<br>he would like to go.   |
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Individual Research Problems :

Helium is liquefied by the process suggested by Cellins (US). The compressed helium gas at 30 atmospheres is cooled to liquid air temperatures. One-third of the gas is then diverted to a chamber in which it expands adiabatically, doing work against a piston, to one stmosphere, and thus cooling the gas. This gas is then heat-exchanged against the other two-thirds, which then expands into the liquefier.

This method obviates the need for an intermodiate liquid hydrogen stage, and thus no hydrogen liquefier is necessary.

There are two helium liquefiers. They yield helium at a rate of two or three liters an hour, the first liquid appears a halfhour after the start.

They also have a strong pumping system attached to the storage vessel for liquid helium, and have been able to get down to 0.8°K.

Professor MELSENER now has an adequate supply of helium. He was invited to the low temperature conference in Cambridge, Mass last year, and as a result of this visit, Condon and Brichwedde from the Bureau of Standards have sent him cylinders of belium.

The laboratory has been in operation for such a short time that no publishable work has yet been completed. One interesting effect has been noticed. If contact between two relatively dirty lead surfaces is made, the contact resistance may be considerable, but still disappears completely when the lead becomes superconducting.

A test of the <u>Heisenberg</u> theory of superconductivity was being set up.

| 64.                                    | Institute                                | :             | PHISIKALISCHES INSTITUT DER UNIVERSITAET.  |
|--|--|---------------|--|
|  | Place                                    | :             | Erlangen.  |
| ······································ | Director                                 |               | Professer HILSCH.  |
|  | Date                                     |               | Thursday, 26 Oct 50.   |
|  | Visit Conducted<br>by                    | :.:<br>• را • | Professor HILSCE.  |
| •                                      | Other Research<br>Vorkers<br>Encountered | :             | Ir BUCIEL and Dr SAUER.  |
|  | Building                                 |               | The building is excellent. It was not destroyed, and, in fact,<br>has been added to considerably between the war and the monetary<br>reform.   |
| ·                                      | Equipment                                | :             | The equipment, likevise is apple and satisfactory. There are a<br>few excellent spectrographs, an X-ray outfit, etc. The scul of<br>the laboratory consists of liquid air, hydrogen, and innumerable<br>helium liquefiers (expansion principle).   |
|  | General Impressio                        | ***           |  |
|  | and Remarks                              |               | Professor HILSCH is a pupil of <u>Pohl in Goettingen</u> . He definitely<br>bears the Pohl stamp, almost impresses one as a younger edition<br>of <u>Pohl</u> , with <u>Pohl's abilities and faults</u> . HILSCH has the<br>sppropriate aggressiveness to get on in the difficult situation<br>in Germany.   |
|  |  |               | During the R-Mark-times he started to enlarge his institute<br>considerably and elegantly. He built a beautiful lecture room<br>for the big physics course, an exact replics of the famous one of<br><u>Pobl (a student of Pohl can always be recognized by the lecture<br/>room he builds). Two stories of laboratories were added, which<br/>now also house the mathematicians. Even from the outside the<br/>building looks very beautiful, efficient and functional. HILSCH<br/>was instrumental in acquiring an adjacent building for an<br/>Institut fuer Angewandte Physik, so that Erlangen has now<br/>two physicists. HILSCH came to Erlangen in 1940.</u> |
|  |  |               | During the var, HILSCH had a var contract which was simply called<br>"low temperatures". At that time, he acquired two compressors,<br>for hydrogen and helium. After the war, HILSCH seems to have<br>had at all times the support of the occupation forces. He<br>acquired another compressor, some spectrographs, etc. At present,<br>he receives frequent gifts of helium from Americans, which keep<br>him going.   |
|  |  |               | HILSCH (like <u>Pohl</u> ), is hammering away on one particular problem.<br>No attempt at broadening the scope of the work is made (at least<br>we were not shown anything else). The subject is an interesting<br>and fashioxable one, namely the investigation of superconducting<br>of metals. The experimental work is excallent. This is one physics<br>laboratory which works with cleaser chemicals than any chemist.<br>There are any number of small helium liquefiers in the various<br>laboratories. These are constructed in such a way that it takes<br>an hour to produce the liquid helium, which will stay in the vessel                             |
|  | · · · · · · · · · · · · · · · · · · ·    |               | for 15 hours. The temperature cannot be reduced below 1.2 degrees Kelvin. The apparatus can be varmed up in a short time, so that  |
|  | · · · · · · · · ·                        |               | two measurements can be made in a day. (A measurement of MRISSIER's requires days, although MRISSIER is able to do things which HILSCH cannot.)  |
|  |  |               |  |



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ETLSCH has not published much, but the work he has done is very interesting. He works with thin films of metals which are evaporated on quartz plates at various temperatures, from two degrees to room temperature.

HILSCH has also inherited two bad traits from Pohl. He has a contempt for theory. He has something which he calls a theory, but it is really just a working hypothesis, namely that crystal imperfections have something to do with superconductivity. He is not interested in current theories of superconductivity. In contrast, <u>Meissner in Herrsching</u>, is attempting to test, and to prove or disprove, the various somewhat contradictory theories. Secondly, HILSCH seems to be somewhat unpleasant to his underlings. Students were not introduced or spoken to. Assistants were introduced, but treated curtly.

HILSCH has limited the number of students in his laboratory severely. He has four students working for the diploma examination, four for the doctorate, and four assistants. This, of course, produces good working conditions. HILSCH has shed all jobs like dean, etc, and is quite free to work.

We have both known HILSCH since the 1920's when he worked in Goettingen. He is the fifth physicist we met who is married to a school friend of mine. In 1939, while HILSCH was still an assistant in Goettingen, he was offered the professorship in Prague. He declined since he felt that the job was distasteful. <u>Gudden</u>, then in Erlangen, went and perished there during the last days of the war. HILSCH was not a Maxi.

HILSCH made some comments about the ERP money which are worth mentioning. He stands to receive 50 thousand DN. The Notgemeinschaft, which administers the money, requires that he spend it, or at least contracts equipment for it, within three weeks. Since this amount is precisely five times his yearly budget he hates to do this in such a short time. He does not know - and no scientist can know - in what direction his research will lead him, and which apparatus he will need in a year. If the money could be spread over a few years, it would be infinitely more useful.

#### Individual Research

Projects

a. Thin films of tin evaporated upon a quarts plate, held at two degrees absolute have a much higher transition point to superconductivity than bulk tin, or tin evaporated on a quarts plate at room temperature. Upon heating, the film changes irreversibly, in such a way that the transition temperature is dependent on the highest temperature the film has known. Some of the films are only 300 Angstroems thick, have a resistance of 20 thousand Ohms, which completely disappears below the transition point.

b. This effect is also observed with other superconducting substances. The percentage change in transition temperature for films which have known no temperature higher than two degrees compared to those which have known room temperature is roughly proportional to the Debye temperature of the metal (for Pb there is no change, for Hg it is negative).

C. Approved for Release: 2022/06/22 C00010786. The experiment is

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c. The observation of the absorption of films through the superconducting point has never shown any change. The experiment is to be repeated with higher accuracy.

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d. SAUER observes the X-ray spectrum of tin films, but not yet at low temperature.



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e. It is not quite easy to introduce crystal imperfections into some superconductors. Tin, for instance, does not dissolve copper. HILSCH produces atomically dispersed copper in tin by evaporating both simultaneously on a quartz plate at two degrees. The superconducting transition temperature rises. After the film has been warm, the transition temperature is that of pure tin.

f. In connection with this, some vapor pressure measurements of films and alloys are undertaken.

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| 65. | Institute                             | PEYSIKALISCE CHEMISCHES INSTITUT DER UNIVERSITAET, ERLANGEN.  |
|-----|---------------------------------------|---|
|     |                                       | : Erlangen.   |
|     | · · · · · · · · · · · · · · · · · · · |   |
|     | Director                              | : Professor Eric LANGE.   |
|     | Date                                  | : Friday, 27 Oct 50.  |
|     | Visit Conducted                       |   |
|     | Ъу                                    | : Professor LANGE.  |
|     | Other Research<br>Workers             |   |
|     | Bacomatered                           | Several assistants and students.  |
|     | Building                              | The building, apparently untouched by the war, has been re-<br>decorated inside, and was reasonably large, pleasant and vell<br>suited for research.  |
|     | Equipment                             | The usual physical chemical equipment of thermostats, electrical<br>measuring devices, pumps, etc, appeared to be present in adequate<br>amounts. The most important apparatus consisted of two highly<br>precise differential calorimeters, for the measurement of heats<br>of dilution.   |
|     | General Impressio<br>and Remarks      | Professor LANCE is a thermodynamicist. He has recently written<br>a short textbook on chemical thermodynamics, and is a member<br>of the international committee on nomenclature. His work<br>is in the electrochemical side of thermodynamics. Professor<br>LANGE received me cordially and we discussed thermodynamic<br>nomenclature for some time before visiting the laboratory.   |
|     |                                       | The international committee on thermodynamic and electrochemical<br>nomenclature has a US chairman, van Rhysselbergh, of Oregon<br>who, however, has been educated in Belgium. US nomenclature<br>has been remarkably standard for the past 30 years, following<br>that of the classic thermodynamic text of Lewis and Randall.   |
|     |                                       | Van Rhysselbergh has been one of the few exceptions, tending<br>to use one of the several European systems. Since about half<br>the world's research in the field of chemical thermodynamics<br>has been done in the US, and mostly published with the Levis<br>and Randall nomemclature, it is somewhat unfortunate that none<br>of the enthusiastic proponents of this system, of which there<br>are many, are represented on the committee. It is likely that<br>the committee will make a recommendation which will not be<br>followed in the US. |
|     |                                       | Following this discussion we visited the laboratory, which gave<br>the impression of good, solid, and precise experimentation.  |
|     | ••<br>•                               | After visiting the laboratory, I attended a short impromptu<br>seminar given by an assistant of the applied chemistry institute,<br>who was leaving for another position. The work reported was not<br>particularly impressive, and the seminar second a little stiff;<br>no member except Professor LANCE made any comments.   |
|     |                                       |   |



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Individual Research Probleme :

a. Differential Calorimeter: A multiple element thermocouple, having some two hundred elements in series, with alternate element on the two sides of a flat plate, separates two sides of a cylindrical double walled Dewar. The plane of "plate" is parallel to the axis of the Dewar. The two sides each contain a stirrer, and a gold plated "pipette" which can be opened simultaneously at the top and bottom. The two sides are filled with identical amounts of pure solvent (water) and the pipette of one side with the same solvent, that of the other with a solution of some solute.

The Devar is placed in thermostat controlled to 10<sup>-4</sup> degrees. After temperature equilibrium is established the pipettes are opened. Temperature differences as small as 10<sup>-7</sup> degrees can be measured, although only those of about 10<sup>-6</sup> degrees are significant. The instrument is probably one of the most precise heat of dilution calorimeters.

b. Volta potential of various surfaces are measured by the condensor method. In particular there was a device by which an iron surface could be scraped clean in yacum and the Volta potential measured immediately. Even at 10<sup>-4</sup> mm the oxidation changes the potential in a few minutes.

c. The emission of electrons in vacuum by a newly produced surface (see Goettingen) was investigated by using a stream of liquid mercury. The effect is present, but of short duration.

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| 66.    | Institute             | : GEOCHEMISCHES INSTITUT (THEOLOGISCHE HOCHSCHULE).  |
| <br>   | Place                 | : Banberg.   |
|        | Director              | : Professor W BODNACK.   |
|        | Date                  | : Friday, 27 Oct 50.   |
|        | Visit Conducted<br>by | t Dr Bva (Mrs) BODDACE.  |
|        | Building              | : According to 'rs NODDACK, the equipment is all personal property<br>of the NODDACKS and very adequate for their purpose.   |
|        | General Impressio     | ×  |
|        | and Remarks           | : The ascension of Bamberg to a "Hochschule" with a science faculty<br>and its aspiration to become a full fledged university is a<br>postwar development. Since Marachen was thoroughly destroyed,<br>and is, in fact, not yet built up, the two Roman Catholic<br>theological seminaries of Bamberg and Regensburg were asked<br>to handle the extering students in the first semesters. At the  |
| ÷ .    | •<br>•                | other universities, one hears nothing good about either<br>institution. The medical faculties complain that the training<br>of the pre-meds is vory poor indeed. We heard from many sides  |
|        |                       | that the Roman Catholic Kultus Minister, Hundhammar, is vitally<br>interested in the two catholic - really Catholic Church -<br>enterprises at Bamberg and Regensburg. He supports them strongly<br>while he tries his best to retard the legitimate Bavarian<br>Universities of Muenchen, Erlangen and Wuerzburg. Regensburg<br>is rumored to have obtained a large electron microscope from<br>ERP money which, it is claimed, is administered by the Bavarian |
|        | :                     | Wirtschaftsministerium. <u>Hundhauser is a native of Regensburg</u> ,<br>and the Bavarian Ministerpraesident a native of Bamberg.  |
|        |                       | In 1946, when great numbers of freshmen entered the universities,<br>it may have been a vise move to get them started in two un-<br>destroyed cities. By now, the usefulness of the two academies  |
|        | -                     | is very substicuable. The legitimate universities can, by now,<br>handle the beginners easily. It just does not make any<br>difference if there are 50 more students in a large freshman   |
|        |                       | class of two hundred. The trouble of the regular universities<br>begins with the advanced students, when there is not enough<br>laboratory space and equipment to go around. At that stage,  |
|        | :                     | the universities have to screen students. Ramberg and<br>Regensburg are not equipped to give this training, and simply<br>increase the troubles of the regular universities.   |
|        |                       | The science faculty of Bamberg contains the NODDACKS, who are<br>both scientists of repute. SODDACK handles physical chemistry.<br>Some unknown teaches inorganic chemistry. There is a physicist<br>by the name of <u>Vierling</u> . It is typical that the physicists of<br>Wuerzburg and Erlangen did not know his name. With one   |
| ······ |                       | probable new addition (see later) this comprises the whole<br>physical sciences. It is certainly an inadequate staff to give   |
|        |                       | more than the beginning of training in the sciences.   |

A DESCRIPTION OF THE OWNER OWNER

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Bamberg has offered a professorship in theoretical physics to Pasqual Jordan, and he has accepted. Since, in the moantime, Headburg has extended his guest professorship, it is not quite certain that he will arrive. Jordan is a very well known man, of the Bonn school. He was a definite, outspoken Mazi, and wrote a number of public statements about "German Physics", etc. He is a persona non grata with Bohr in Copenhagen. After the war, the German universities did not want him, in spite of the fact that there is a great lack of theoreticians of his age and reputation. He has recently published some very vild, and not too well thought out, theories of cosmology. He does not seem to be a very valuable addition to a university, except for enhancing its reputation. Politically and philosophical? Jordan is as unstable as ever. We knew Jordan in 1928 in Goettinger heard details about his Nazi records and scientific publications later. On this trip, ve did not meet bim anywhere.

We came to Bamberg at a somewhat inopportune time. The geochemical laboratory was being moved from a monastery to a castle, and Professor MONDACK was not available. Mrs NONDACK asked us to visit her at her home, which we did. Everybody who has been interested in the cosmological abundance of elements has met the mame of the FONDACKS. Their life work has been the chemical analysis of minerals, especially quartitative measurement of the amounts of rare constituents. Their work has not always been correct. Harrison Brown in Chicago has a poor opinion of it; but it is extremely difficult work which can now be done much easier by use of neutrons.

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Mrs BODDACK received us quite cordially, but we came away with the impression of a not very pleasant personality. She is the only person we met who was definitely hostile towards the US. She tried to impress us with the fact that the situation in the US was very bad. She claimed that they had an offer to go to the US, but "if one works at a university in the US, one starves (verhungert)". A denial on our part made no impression.

NODDACK was known as a convinced Mazi. He went to Strasbourg in 1943 which is not a recommendation. They fled before Allied troops entered, taking with them all their equipment. Why they landed in Bamberg we could not find out. I have the suspicion that it has something to do with the fact that Bamberg was more inclined to take people with a Mazi record. WODDACK has formed quite a school and has eight students working towards a doctorate, which Bamberg is not allowed to grant. He will send them elsewhere to finish. A new laboratory has been promised, although there seems to be some difficulty to convince the Church Fathers that science needs space and money.

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| 67. | Institute                                | <br>1  | PHYSIKALISCHES INSTITUT DER UNIVERSITAETS.  |
|     | Place                                    |        | Wuerzburg.  |
|     | Director                                 | P      | Professor KUHLENKAMPP.  |
|     | Date                                     | ł      | Saturday, 28 Oct 50.  |
|     | Visit Conducted<br>by                    | :      | Dr LEISEGARG, Dr FETZ.  |
| -   | Other Research<br>Workers<br>Encountered |        | Professor KUHLENKAMPF, Professor OTT (theoretical physics), and<br>any number of students.  |
|     | Bailding                                 | a<br>0 | The building was constructed in 1875 and is consequently very old-fashioned. It was somewhat damaged during the war but has been repaired.  |
|     | Equipment                                |        | This is the laboratory where Roentgen discovered the X-rays.<br>It still follows Roentgen's tradition and limits its research<br>to the X-ray field. When NUHLENKAMPF arrived in 1946, there was<br>very little equipment present, due to age and attitude of the<br>previous director. NUHLENKAMPF brought some apparatus with him<br>from Jens. Several high voltage generators exist. Support<br>for the laboratory has been at a minimum. There is hope for the<br>acquisition of a 25 MEV betatron from ERP money.   |
|     | General Impressio<br>and Remarks         | •      | In some respects this was the most pleasant visit of any<br>laboratory where we were not well known. We had met Professor<br>MUHLENKAMPT at Bad Nauheim and told him that we would come to<br>visit him. He was out of town when we arrived, but had informed<br>his staff. Dr LEISCARG and Dr FERZ received us with unusual<br>cordiality and friendliness. They took us through the laboratories,<br>and it was an entirely different visit from the usual one. When<br>they entered a room, they would announce, "Boys, we have visitors<br>from the US", and then introduce us to every last person in the<br>room, including mechanics. Somehow, the students were not at<br>all stiff. The assistants asked the students to explain their<br>apparetus, and did not continually interrupt and take over.<br>The students talked freely and well. There was nome of the<br>usual stiffness and shyacss. It was apparent that the relations<br>between the assistants and students are much more cordial than<br>with the chief, who has rarely time to enter a students'<br>laboratory. It was indicated that the visit would have been<br>different had KUHLENKAMPT been present. LEISBIANG then decided<br>that all of them would like to hear about the US, and asisd all<br>students up to the laboratory to talk to us. So, for the first<br>time, on our last visit to a German laboratory, we sat around<br>a table with about ten students, told them about the US, and<br>listened to their troubles. LEISENARG was very worried about<br>KUHLENKAMPT's reaction when he heard about it, but we were very |

The troubles of the students and assistants are very real and serious with the cause: 2022/06/22 C00010786 only a handful of physic Approved for Release: 2022/06/22 C00010786 only a handful of

| Visit Conducted<br>by                 | Approved for Release: 2022/06/22 C00010786<br>: Dr LEISEGANG, Dr FETZ.   |
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| Building                              | : The building was constructed in 1875 and is consequently very  |
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The troubles of the students and assistants are very real and serious. With the German university set-up, only a handful of physicists have a chance even to become an "Ordinarius". Industry at present is hardly taking any physicists (although Siemens had just engaged a student of Professor OTT, a theoretician). In the laboratory the director is a complete god, and just about as invisible, since he is burdened by classes, exams, and administration. Nobody is consulted about matters concerning the whole laboratory.

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They complained that the training of students is poor. The system of the US, where many full professors work in the san laboratory, seemed to them a wast improvement.

The lack of equipment and financial support from the Kulturministerium is very serious. The Landtag of Bavaria vanted to found a second chair for physics in Wuerzburg. However, the Kulturminister, Hundhaumer, spoke against it and got them to reconsider! This is really a fastastic state of affairs.

In the afternoon, LEIREGARG and FETZ decided to show us Vuerzburg. In this process, we met NUHLERKAMPF, just returning from Erlangen, where he had discussed prices of a betatron with Siemens. We had a long talk with him, and all of them say us off at the station.

The equipment of this laboratory is definitely very poor. The assistants claimed that only Muenster vas vorse. The research is very limited to the single field of X-rays. The library belongs mostly to Jena.

Individual Research Problems :

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a. SCHUFRER measures the velocity spectrum in the back-diffusion of electrons of 40 MSV which hit a metal plate.

b. Somebody tests the "Scherzer formula" for the angular distribution of X-rays produced on very thin aluminum foils.

C. LEISEGARG intends to determine the degree of polarization of I-rays by measuring tracks of electrons produced by X-rays in a Wilson cloud chamber. This means a stereoscopic measurement of some thousands of tracks. He has to do this himself, although it is work for a technician. He is quite unhappy about it, but it seems to be the chief's suggestion.

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CENTRAL INTELLIGENCE AGENCY WASHINGTON 25, D. C.

16 June 115 .

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13(9)(4)

MEMORANDUM FOR: Director, Joint Intelligence Objectives Agency

ATTENTION: Colonel B. W. Heckeneyer

SUBJECT: JIOA Watch List of 17 March 1952

1. We have received a memorandum and the second sec

that the personnel enumerated as being worthy of watching because of any possible scientific achievement or direction of policy in the field of biological warfare should be revised. The names of von Sicherer, Kempfer, and Eschenback are recommended for removal from the list. No additions are recommended at this time."

2. - Would you please advise me of what action you can take on this recommendation

Scientific Intelligence

Approved for Release Date

CIA Denial 201 Fnu von SICHERER C/R 201 J. KEMPFER C/R 201 (Fnu) ESCHENRACH



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and engineers who telked the same technical language. No Soviet military man of lower rank than General contacted them. Thus mutual confidence who built up, as a result of which the Germans opened up fully about their past work and planned developments. They now suppose that the Soviets, after these five years, no longer need them in order to continue work along the German lines or otherwise.

5. 🗰

DATE SUPPLEMENT TO ACQUIRED BY SOURCE Nov Approved for Release: 2022/06/22 C00010786 PORT NO. DATE OF INFORMATION Nov 51 GRADING OF SOURCE BY OFFICE OF ORIGIN SOURCE'S OPINION OF CONTENT NOT USUALLY RELIABLE CANNOT COMPLETELY USUALLY FAIRLY CANNOT NOT PROBABLY POSSIBLY PROBABLY DOUBTFUL BE TRUE ΒE RELIABLE RELIABLE RELIABLE RELIABLE TRUE TRUE FALSE JÜDGED JÜDGED X X D. E. F 2. З. 6. THIS IS UNEVALUATED INFORMATION N ANY NANNER TO EN UNAUTHORIZED PERSON Reproduction of this form is providited SOURCE 1,3(a)(4) November 1951, the Soviets returned to the \_\_\_\_\_ 1. Prior to East Zone about 100 German specialists out of the hundreds that went to the 1.3(2) (4) USSR. These returnees were placed in good industrial positions in the East Zone by the authorities and were ordered to remain there. However, about 70 econed to the Mast Zone. there are three main reasons why the Soviets sent these men back. 2. First, the Soviets sent back only those men who did not sign a document to become members of the Communist Party. Such Germans would always be a specialsecurity risk. ţ 3. Second, all the Germans-that went-to-the USSR had five year contracts which expired during 1951. These men were all well known. They could not disappear without the fact-being noticed. 4. Third, all the Germans in the USSR worked only with top-notch Soviet scientists and engineers who talked the same technical language. No Soviet military man of lower rank than General contacted them, Thus mutual confidence was built up, as a result of which the Germans\_opened\_up\_fully about their past work and planned developments. They now suppose that the Soviets, after these five years, no longer need them in order to continue work along the German lines or otherwise. 1.3 (a) (4) Approved, for Release Date 7 NOV 1985 834021-1938 CLASSIFICATION DISTRIBUTION **NSRB** STATE EV W/OSI EV STATE EV ARMY FBi 387

CIA Paperelip

Present Attitude of German Specialists

In Germany, in the past, scientists and engineers that worked one or two years in the guided missiles field became fanatics on the subject. Their chief interest came to be the solution of problems connected with this field, They always considered it a challenge to step ahead on virgin soil. Engineers hai an urge to create something new and not just solve problems in a conventional way. That is what made the whole business so interesting. The technical men who worked in this field would still like to start again doing what they love, namely, new guided missiles work, rather than stay in the quiet positions with the security they now have. At present they are forthe most part in intermediate or temporary positions where they cannot use their GM experience.

these technical people would be glad to come to the US when and if they get an offer. They say "If American industry needs us and wants us, why doesn't American industry contact us?" They would come, not only to be on the safe side, but to work in their chosen field.

In 1945 the situation was such that the Germans thought everything was lost. The technical men offered themselves to anyone that made an offer and, hence, they were called the scientific mercenaries of the Tweatkth Century.

In late 1951, now that Germany is recovering, there is again a proud feeling. It will now be necessary to convince them to take such a turning point in their lives as coming to the US. This can best be done by Germans who have already spent some years in the US. it is necessary 1.3(a) (4) to act now, because by the spring of 1952, there will be a reed for skilled people for rearmament purposes within Germany. At least part of the industry will work on rearmament and will put these experienced people in good positions.

Suggested Procedure for a New "Paperclip" Project

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the starting point of a new "Paperclip" project should be to set up an administrative organization made up of Germans They would first set up a list of specialists willing to come over, which list might contain some 100 names. This list should then

be sent to the US industry. After the industry indicates which men it wishes to secure, the first contact can be made with the specialists by the German organization with the help of one or more "Paperclips".

13. After the German organization has convinced the prospective candidate of the desirability of coming to the US, they should be contacted by technical men from US industry who can talk technical matters to them in a way they can understand. Only a technical man can correctly judge the qualifications of another technical man. In this way, from the first moment, there will be confidence between the German who is looking for a job and a representative of US this approach will be successful in getting specialists industry. to come over.

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They always considered it a challenge to step ahead on virgin soil. Engineers hai an urge to crApproved for Release: 2022/06/22 C00010786roblems in a conventional way. That is what made the whole business so interesting. The technical men who worked in this field would still like to start again doing what they love, namely, new guided missiles work, rather than stay in the quiet positions with the security they now have. At present they are for the most part in intermediate or temporary positions where they cannot use their GM experience.

if they get an offer. They say "If American industry needs us and wants us, why doesn't American industry contact us?" They would come, not only to be on the safe side, but to work in their chosen field.

In 1945 the situation was such that the Germans thought everything was lost. The technical men offered themselves to anyone that made an offer and, hence,  $\checkmark$  they were called the scientific mercenaries of the Twentwith Century.

In late 1951, now\_that Germany is recovering, there is again a proud feeling. It will now be necessary to convince them to take such a turning point in their lives as coming to the US. This can best be done by Germans who have already spent some years in the US. This can best be done by Germans who to act now, because the species of the US. The spring of 1952, there will be a reed for skilled people for rearmament purposes within Germany. At least part of the industry will work on rearmament and will put these experienced people in good positions.

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Suggested Procedure for a New "Paperclip" Project

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they know that something could be done much quicker if they could get someone to make the decision. It is hard sometimes to get a clear cut answer and there is a great deal of uncertainty. The Germans are used to having one man to decide what is to be done. How it is to be done is the problem of the engineer. Such matters should be explained to prospective "Paperclips" before they come over.

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