"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TROBLATOWSKI, Wlodzimierz

Trends in the development of inorganic and physical chemistry. Review Pol Academy 8 no.4:7-25 Oct 63.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBIATOWSKI, Wlodzimierz; SKUDLARSKI, Krzysztof

Thermal decomposition of barium carbonate in the presence of quartz. Rocz chemii 36 no.10:1427-1439'62

1. Department of Inorganic Chemistry, Institute of Technology, Wroclaw, and Department of Structural Research, Institute of Physical Chemistry, Polish Academy of Sciences, Wroclaw.

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TRZEBIATOWSKI, Wlodzimierz

Theory and structure of complex compounds; symposium in Wroclaw June 14-19, 1962. Nauka polska 11 no.2:103-106 Mr-Ap '63.

1. Czlonek rzeczywisty Polskiej Akademii Nauk.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBIATOWSKI, Wlodzimierz, prof. dr

Development trends of inorganic and physical chemistry. Problemy 19 no.7:402-406 '63.

1. Czlonek rzeczywisty Polskiej Akademii Nauk, kierownik Zakladu Badan Strukturalnych Polskiej Akademii Nauk, Wroclaw.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBIATOWSKI, Wlodzimierz; SUSKI, Wojciech

Ferromagnetic uranium monosulfide. Rocz chemii 37 no.1:117-118 '63.

1. Institute of Physical Chemistry, Polish Academy of Sciences, Wroclaw, and Department of Inorganic Chemistry, Technical University, Wroclaw.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBIATOWSKI, W.; SUSKI, W.

The magnetic properties of uranium selenide (USe). Bul chim PAN 10 no.8:399-400 '62.

1. Institute of Physical Chemistry, Wroclaw Branch, Polish Academy of Sciences, and Department of Inorganic Chemistry, Technical University, Wroclaw. Presented by W. Trzebiatowski.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBIATOWSKI, W.; TROC, R.; LECIEJEWICZ, J.

Magnetic properties of some uranium nitrides and carbides. Bul chim PAN 10 no.8:395-398 '62.

1. Institute of Physical Chemistry, Wroclaw Branch, Polish Academy of Sciences, and Department of Inorganic Chemistry, Technical University, Wroclaw. Presented by W. Trzebiatowski.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

KISZA, A.; TRZEBIATOWSKI, W.

Thermodynamic properties of uranium (III) chloride in diluted solutions of the melted eutectic mixture LiCl-KCl. Bul chim PAN 10 no.5:387-393 '62.

1. Institute of Physical Chemistry, Wroclaw Branch, Polish Academy of Sciences. Presented by W. Trzebiatowski.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

AUTHORS: Trzebiatowski, W., Kisza, A.

TITLE: The thermodynamic properties of cobalt (II) chloride in fused alkali chlorides

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1962, 87, abstract 24B612 (Bull. Acad. polon. sci. Sér. sci. chim., v. 9, no.10, 1961, 605 - 612 [Eng.; summary in Russ.])

TEXT: The electromotive forces were measured for galvanic elements of the types: $(+)Cl_2$, $C|MCl|CoCl_2(x_1)$, $MCl(x_2)|Co(-)$, where MCl = KCl, NaCl, LiCl, or [0.48 LiCl + 0.52 KCl] in the range of x_1 = 0.001 - 0.03 at temperatures of 800 - 950°C and at 400°C (in the case of [0.48 LiCl + 0.52 KCl]). The thermodynamic functions of dilute solutions of $CoCl_2$ in MCl are calculated. By taking into consideration the known properties of pure $CoCl_2$, the partial thermodynamic quantities of $CoCl_2$ in dilute solutions of $CoCl_2$ in MCl are

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The thermodynamic properties ... S/081/62/000/024/010/073
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calculated. The results are given in tables and graphs. It was found that dilute solutions of $CoCl_2$ in LiCl are nearly ideal. The other systems under examination show negative deviations from the ideal behavior, in particular the system $KCl-CoCl_2$, the reason being the presence of $CoCl_4^{2-}$ ions in the melts. [Abstracter's note: Complete translation.]

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBIATOWSKI, W.; RUDZINSKI, J.

On the existence of a technetium carbide phase. Nukleonika 6 no.7/8:530 '61.

1. Polish Academy of Sciences, Institute of Physical Chemistry, Wroclaw.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBIATOWSKI, W.; MIEMIEC, J.; SEPICHOWSKA, A.

Magnetic properties of uranium tellurides. III. The preparation, Crystal structure and magnetic behavior of uraniumoxytelluride. Bul chim PAN 9 no.6:373-377 '61.

1. Institute of Physical Chemistry, Wroclaw, Polish Academy of [illegible]

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBIATOWSKI, Wlodzimierz; JABLONSKI, Andrzej

Some phase relations of the $BaC-UC_2-C_2$ system. Nukleonika 5 no.10:587-596 '60.

1. Technical University, Wroclaw, Department of Inorganic Chemistry

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBIATOWSKI, Wladislaw (Wrocław)

The present status and development prospects of inorganic and physical chemistry in Poland. Rocz chemii 34 no.5:1213-1233 '60.
(EEAI 10:9)

(Poland--Chemistry, Inorganic)
(Poland--Chemistry, Physical and theoretical)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBIATOWSKI, W.; KISZA, A.

Thermodynamic properties of cobalt (II) chloride in fused alkali chlorides. Bul chim PAN 9 no.10:605-612 '61.

1. Department of Structural Research (Wroclaw) Institute of Physical Chemistry, Polish Academy of Sciences. Presented by W. Trzebiatowski.

(Cobalt chlorides)

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P/046/60/005/010/001/009
27153 D246/D302

21.2100

AUTHORS: Trzebiatowski, Włodzimierz, and Jabłoński, Andrzej

TITLE: Some phase relations of the $BaO-UO_2-O_2$ system

PERIODICAL: Nukleonika, v. 5, no. 10, 1960, 588-595

TEXT: UO_2 is used as a high temperature reactor fuel; therefore, its physical and chemical properties as well as phase equilibria with other metal oxides are of interest. UO_2 systems with BeO, MgO and CaO have already been studied. In the system $BaO-UO_2$, the presence of $BaUO_3$, Ba_2UO_4, $Ba_3UO_{5.2}$, BaU_2O_6, BaU_2O_7, Ba_2UO_5 and Ba_3UO_6 were reported although not all have been proved to exist. The $BaO-UO_2$ system: Mixtures of $BaCO_3$ and UO_2 of varying compositions were ground, pressed into pellets and heated for 24 hours in pure H_2 at 1200°C. X-ray investigation shows that up to 50 mol % BaO only UO_2 and $BaUO_3$ phases exist. From the lattice

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constants, no solubility of UO_2 in $BaUO_3$ or BaO in UO_2 is to be expected. At 50 mol% BaO the compound $BaUO_3$ is formed with a pseudo-cubic perovskite structure. At higher BaO contents, X-ray work shows a marked solubility of BaO in $BaUO_3$. This solution persists up to 75 mol % BaO. At 60 mol % BaO the interference lines become sharp, showing that a strictly cubic structure is present. Additional weak lines which appear may be explained by the superstructure formation, caused by doubling of the lattice constants. It was found that the lattice constants increase with the BaO content up to 75 mol % BaO. A distinct break occurs at 66.7 mol % BaO, corresponding to the composition of a previously assumed compound Ba_2UO_4. Up to 75 mol % BaO the sample is not hygroscopic; with higher BaO contents the samples show a volume contraction or reduction with H_2 and an increase in weight when left standing in air. Both of these facts point to the presence of free BaO. Further details of the structure and properties of the perovskite phase (50 - 75 mol % BaO) is the subject of the present work of the authors. Barium metauranate (IV) was found to oxidized during

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the above reported experiments. Investigations were undertaken to explain this process. $BaUO_3$ was prepared by exhaustive reduction of pure $BaUO_4$ with H_2 at high temperatures. At 620°C the reduction was only partial, while at 1200°C free BaO was obtained. After the removal of BaO, X-ray investigation reveals the presence of only the preovskite structure. The lattice constants were found to be dependent on the rate of flow of the reducing H_2. Rates of flow lower than 0.5 l/min (in a tube diameter 17 mm) gave a constant of 4.370 kX, while flows of 1.5 l/min or more gave the constant of 4.402 kX. After two hours in air, $BaUO_3$ was found to correspond to $BaUO_{3.06}$. The oxygen ratio continued to increase until after several months the composition corresponded to $BaUO_{3.4}$. At the same time the lattice constants decreased to 4.393 kX. The interference lines of $BaUO_{3.00}$ were not all sharp, some exhibiting distinct splitting (the 521 line). This suggests that deformation of the perovskite structure has occurred. The study of phase changes showed that the

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initial oxidation of $BaUO_3$ (up to $BaUO_{3.36}$) is homogeneous. The oxygen atoms enter the uranate lattice and diminish the lattice constant. As oxidation proceeds a new phase is formed with a rhombohedral $BaUO_4$ structure. No other intermediate products are formed, and the density does not alter markedly during oxidation. This points to the fact that the added O atoms occupy interstitial positions of the lattice. The contraction of the lattice which takes place during oxidation is due to the decrease of the uranium ionic radius (oxidation of U (IV)). This increases the forces of attraction between the higher charged uranium ions and the oxygen ions. In this respect $BaUO_3$ resembles $LaMnO_3$ where an analogous contraction occurs on oxidation of the Mn(III) to Mn(IV). There are 1 figure, 5 tables and 12 non-Soviet-bloc references. The 4 most recent references to English-language publications read as follows: F. Galasso, L. Katz, R. Ward: J. Am. Chem. Soc. 81, 820 (1959); L. H. Brixner: J. Am. Chem. Soc. 80, 3214 (1958); S. M. Lang, F. P. Knudsen, C. L. Filmore: Natl. Bur. Standards (U.S.) Circ. 568, (1956); M. G. Harwood; Proc. Phys. Soc. 68B, 586, (1955).

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Some phase relations... 27153 P/046/60/005/010/001/009
D246/D302

ASSOCIATION: Technical University, Wrocław, Department of Inorganic Chemistry

SUBMITTED: July, 1960

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

DRYS, M.; TRZEBIATOWSKI, W.

Some phase equilibria in the ternary system $BaO-SrO-TiO_2$. Bul chim PAN 8 no.4:173-176 '60. (EEAI 10:9/10)

1. Department of Inorganic Chemistry, Technical University, Wroclaw. Presented by W. Trzebiatowski.

(Systems(Chemistry)) (Oxides) (Barium)
(Strontium) (Titanium)

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TERPILOWSKI, J.; TRZEBIATOWSKI, W.

Thermodynamic properties of indium antimonide. Bul chim PAN 8 no.3: 95-98 '60. (EEAI 10:9/10)

1. Department of Structural Research (Wroclaw), Institute of Physical Chemistry, Polish Academy of Sciences. Presented by W. Trzebiatowski.

(Antimony indium alloys)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBIATOWSKI, W.; ROMANOWSKI, W.

Structure and activity of nickel catalysts supported on zinc oxide. Bul chim PAN 8 no.3:113-116 '60. (EEAI 10:9/10)

1. Department of Inorganic Chemistry, Wroclaw, Technical University and Institute of Physical Chemistry, Polish Academy of Sciences. Presented by W. Trzebiatowski.

(Catalysts) (Nickel) (Zinc oxide)

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TRZEBIATOWSKI, W.; PIGON, K.; ROZYCZKA, J.

Electric properties of zinc arsenide Zn_3As_2. Bul chim PAN 8 no.4: 197-200 '60. (EEAI 10:9/10)

1. Institute of Physical Chemistry, Polish Academy of Sciences and Department of Inorganic Chemistry, Technical University, Wroclaw. Presented by W. Trzebiatowski.

(Arsenides) (Zinc)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBIATOWSKI, W.; SEPICHOWSKA, A.

Magnetic properties of uranium-tellurium alloys. II. Bul chim PAN 8 no.9:457-460 '60.

1. Department of Structural Research (Wroclaw), Institute of Physical Chemistr, Polish Academy of Sciences. Presented by W. Trzebiatowski.

(Uranium alloys) (Tellurium alloys) (Magnetism)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBIATOWSKI, W.; ZDANOWICZ, W.

Some electrical properties of cadmium arsenide — Cd_3As_2. Bul chim PAN 8 no.9:511-516 '60.

1. Institute of Physical Chemistry, Polish Academy of Sciences and Department of Inorganic Chemistry, Technical University, Wroclaw. Presented by W. Trzebiatowski.

(Electricity) (Cadmium) (Arsenides)

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TRZEBIATOWSKI, W.; SUSKI, W.

Magnetic properties of uranium-selenium alloys. Bul chim PAN 9 no.5: 277-280 '61.

1. Institute of Physical Chemistry, Wroclaw Branch, Polish Academy of Sciences and Department of Inorganic Chemistry, Technical University, Wroclaw. Presented by W. Trzebiatowski.

(Uranium alloys) (Selenium alloys) (Magnetism)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TSHEBYATOVSKIY, V.K. [Trzebiatowski, W.K.]

Structure and magnetic properties of some metallic contacts. Probl. kin. i kat. 10:155-163 '60. (MIRA 14:5)

1. Institut fizicheskoy khimii Pol'skoy Akademii nauk, Vrotslav. (Catalysts--Magnetic properties)

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B103/B207

AUTHOR: Trzebiatowski, Włodzimierz. Professor, Doctor, Head of the Department, Member of PAN (Polska Akademia Nauk, Polish Academy of Sciences)

TITLE: The present state and development prospects of inorganic and physical chemistry in Poland

PERIODICAL: Wiadomości chemiczne, v. 14, no. 2 (152), 1960, 69-89

TEXT: The author describes the activity and the achievements made in the field of inorganic and physical chemistry in Poland in the course of the past 15 years. This paper was subject of a lecture held at the opening meeting of the Sixth Congress of the Polskie Towarzystwo Chemiczne (Polish Chemical Society) in Warszawa on September 9, 1959. Above all, he mentions the names of the following, already deceased, chemists who were experts in the above-mentioned field: K. Jabłczyński, J. Zawidzki, J. Zawadzki, B. Szyszkowski, M. Centnerszwer, W. Glixelli, S. Tołłoczko, M. Hłasko, E. Bekier, and T. Miłobędzki. As compared to the 20 years between the two wars, the basis created for the fundamental sciences of chemistry is now much broader, both

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[illegible]

[illegible] chemistry of phosphorus by T. Mi/obędzki and J. [illegible] tinued under the collaboration of K. Wieczffiński (Warszawa). W. Rodziewicz (Gdańsk) dealt with the synthesis of mixed ethyl-phenyl esters of orthosilicic acid and developed a new method (in the gas phase). A. Krause and W. Wolski (Poznań) were occupied with iron compounds, M. Kranz with the synthesis of inorganic pigments, K. Kapitańczyk with amphoteric thallium (III) (the two last worked at Poznań). The compound Na_3MnO_4 was prepared by B. Jeżowska-Trzebiatowska (Wrocław), where also rhenium, vanadium, and uranium complexes were studied. W. Hubicki (Lublin) developed a method of preparing the tertiary phosphates as single crystals. As compared to synthesis, the research

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work on the structure of inorganic compounds and ions in solutions took a much more rapid development; the latest methods of analysis are used for this purpose. X-ray analysis was frequently applied at Wrocław (by the author and K. Łukasiewicz) as well as at Łódź (by Z. Gałdecki) (Politechnika Łódzka, Łódź Polytechnic Institute), where the structure of arsenic halides was the subject of studies. The author studied jointly with B. Staliński magnetochemical properties as well as the electrical conductivity of solids. K. Pigoń (Wrocław) determined the semiconductor properties of $BaTiO_3$. Owing to K. Gumiński's (Wrocław) initiative, research was taken up in the field of the electrical conductivity of organic compounds. The studies were continued at Kraków. A. Dorabialska and J. Kroh (Łódź), K. Gumiński and Z. Ruziewicz (Wrocław) dealt with chemiluminescence. J. Rohleder (Wrocław) gave a thorough explanation of the electron structure of phosphorus. A. Tramer (Warszawa) determined the molecular structure of carbonyl [illegible]

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new ideas in connection with the existence of compounds of the coordination number 10. A. Swinarski (Toruń) prepared several selenium cyanogen compounds of heavy metals. B. Jeżowska-Trzebiatowska (Wrocław) studied the structure and bonds of complexes and their magnetic properties. L. Pajdowski (Wrocław) developed an extraordinary method of determining the stability constant of complexes. A great number of papers dealt with the structure of complex ions in solutions. J. Świętosławska completed the spectrophotometric method employed for this purpose. S. Minc and M. Libuń (Warszawa) studied the copper- and cobalt compounds in water and in aliphatic alcohols. A. Basiński (Toruń) determined the solubility products of a series of ferrocyanides of heavy metals. E. Józefowicz (Łódź) investigated the solubility of arsenic trioxide in solutions of alkali halides. W. Kemula (Warszawa) studied the distribution equilibrium of chemical compounds in the liquid-liquid system. W. Hubicki (Lublin) dealt with the precipitation mechanism of phosphates of heavy metals. S. Minc studied the tautomeric equilibriums of nitric acid in dependence of the medium by means of Raman spectrum. Z. Kęcki (Warszawa) developed an objective method of determining the intensity of Raman lines. With respect to the theory of the chemical bond from the quantum-mechanical point of view, first studies have been made in Poland:

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does not mention the approximately [illegible]
self to the mention of the collaborators: K. Zięborak, M. Małesiński, A. Orszagh, T. Penkala, A. Bylicki, J. Stecki, A. Kręglewski, etc. The greatest number of studies was devoted to azeotropy. New types of azeotropes consisting of three components, as well as the homo- and heteroazeotropy in 4-component systems were discovered. A complete classification and terminology of these azeotropes was submitted to IUPAC. The team of Wrocław (the author in collaboration with J. Berak) worked out phase diagrams of the systems titanium - copper and rhenium - platinum. Further diagrams were plotted by J. Niemiec and M. Dryś, J. Wojciechowska and W. Bobrownicki. A great number of studies in the field of calorimetry were made by A. Dorabialska and M. Łaźniewski in Łódź. New types of calorimeters were developed (laby-rinth type according to W. Świętosławski; for lower temperatures by

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B. Staliński, Wrocław). The author and J. Terpiłowski (Wrocław) determined electrochemically the thermodynamic properties for determining the main functions of metal alloys up to 800°C. M. Sarnowski and B. Baranowski (Kraków-Warszawa) explained with the aid of a semi-empirical method some abnormities of the values of vapor tension in systems solvent - salt - organic compound. The teams of B. Kamieński (Kraków) and A. Waksmundzki (Lublin) dealt with the electrical phenomena at the interface. About 100 publications described an absorption microdevice designed by B. Kamieński, which serves for the detection of all electrochemically active substances. Little has been published in Poland in the field of colloidal chemistry, only some papers dealing with this subject are listed: W. Wójcik (team of A. Gałecki, Poznań) on the physicochemical properties of the copper hydrosole and of Paal gold. A. Basiński and H. Basińska (Toruń) prepared hydrosols and hydroxides of Al, Cr, and Fe on kaolin. [illegible]

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W. Kemula and his team (Z. Grabowski, J. Chodkowski, S. Siekierski, and Z. Kublik, Warsaw) play the leading role in polarography. The author mentions only briefly some achievements in this field: A theory of latent limiting currents was developed, the damping of diffusion currents by metal hydroxides was explained. Furthermore, the use of polarography for the study of the reduction mechanism and -kinetics of organic, inorganic-, and complex compounds was worked out. Particularly good results were achieved in chromatopolarography. W. Kemula developed a "suspended", stable mercury dropping electrode. B. Jeżowska-Trzebiatowska and J. Biernat (Wrocław) studied the reduction of cyanocomplexes of rhenium. W. Hubicki devoted his polarographic studies to low temperatures. E. Goerlich (Kraków) introduced a new method of rapid differential polarography. Chemical kinetics belongs to the traditional fields of development in Poland. With respect to solutions, it formed the main trend of studies by E. Józefowicz and S. Witekowa (Łódź) who, under this aspect, studied the processes in the 2-phase systems. M. Wroński (Łódź) published many papers and studied the reaction kinetics important for the production of viscose fibers. B. Jeżowska-Trzebiatowska and collaborators (Wrocław) studied redox reactions. M. Wrońska (Wrocław) studied kinetically the reduction and decomposition of iron compounds. S. Bretsznajder

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(100 atm) proceeds mainly in the liquid phase. Further studies dealt with polymerization reactions in solutions, e.g., of methyl methacrylate by means of the optical method (J. Kroh, Łódź), of caprolactam (E. Turska, Łódź), where also the polycondensation kinetics of the dimethyl ester of terephthalic acid with ethyl glycol was determined. M. Kryszewski studied the action of light upon the photopolymerization of vinyl bromide, and J. Wojtczak (Poznań) dealt with the same reaction of acetaldehyde. A. Bylicki (Warszawa) studied the decomposition kinetics by way of the example of the decarboxylation of picolinic-, nicotinic- and lutidinic acid. J. Zawadzki (Warszawa) studied the kinetics of the gas reaction by the example of the Bouduoard-reaction. The papers of S Ciborowski (Warszawa) on the hydrogenation of acetone to propyl alcohol belong also to this field. J. Zawadzki and S. Bretsznajder (Warszawa) continued their investigations of the dissociation kinetics of carbonates. The latter extended his studies on the dissociation mechanism of solids. The chemical reaction mechanism in solid phase was also studied in Wrocław (by the author, J. Damm, J. Wojciechowska). In Kraków, A. Bielański and, later on, J. Dereń studied the course of the

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spinel synthesis from oxide components, being characteristic semiconductors. The studies made by L. Czerski and collaborators (Kraków) dealing with the oxide- or sulfur cinder formation from pure metals or alloys belong to the same field. J. Zawadzki (Warszawa) took the initiative in these studies of catalysis and examined statically and dynamically the decomposition mechanism of ammonia on iron where he proved a process of the first order. He furthermore found that the oxidation of ammonia on platinum follows the radical mechanism. The basic studies on the heterogeneous catalysis were also continued in Poznań, Kraków, Gliwice, and Wrocław. A. Krause's team (Poznań) continued on a broad basis the studies of the catalytic activity of amorphous hydroxides with ions of heavy trace metals precipitated on them. [illegible] J. Haber and J. Deren (Kraków) made further studies in this field on nickel- and tungsten oxide. W. Romanowski (Wrocław) developed a magnetic method of determining the degree of dispersion of metals on the carrier. Z. Sokalski and collaborators (Gliwice) deal with sorption- and diffusion processes as

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The present state ...

well as the capillary system of contact catalysis, especially in processes that can be technologically evaluated. Further studies of catalysis, more from the technological point of view, were carried out at the Instytut Chemii Ogólnej (Institute of General Chemistry) by E. Treszczanowicz, and the Instytut Syntezy Organicznej (Institute of Organic Synthesis), are, however not discussed here. M. Lasoń (Kraków) tried to generalize Szyszkowski's adsorption equation by means of the isothermal lines of Hüttig-Fergusson and Barrer. W. Kuczyński (Poznań) dealt with the activity of aluminum gel, while F. Pollak (Kraków) studied silica gel by means of the dynamic method. L. Czerski (Kraków) invented a method competing BET, which may be applied to pit coal in the adsorption of p-cresol from the aqueous solution. W. Tomassi (Warszawa) characterizes and interpretes the activity of the surface of metal powders as well as of coal in a different way, i.e., potentiometrically. To wind up with, the author gives a survey on nuclear chemistry, Poland's youngest branch in this field of science. Active research work is being carried out since the Instytut Badań Jądrowych (Institute of Nuclear Research) was founded and research is greatly supported by competent authorities. I. Złotowski (Warszawa) dealt with the stable isotopes and improved several methods of investigation. A. Dorabialska continued her work on the weak

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experimental basis. The interface phenomena must be brought into relation with flotation and catalysis. In the field of catalysis it is necessary to pay more attention to kinetic studies. As soon as the question of personnel has been solved, a department of colloidal chemistry must be founded. The physical chemistry of the polymolecular substances is still underdeveloped. Stable and radioactive isotopes must be applied on a broader basis. [illegible]

[illegible] Switzerland or Sweden [illegible], these branches of chemistry, will flourish in which the personnel, especially if entire teams are concerned, is composed of capable scientists who possess endurance and initiative.

ASSOCIATION: Katedra Chemii Nieganicznej I Politechniki Wrocławskiej (Department of Inorganic Chemistry of the I. Polytechnic University, Wrocław)

SUBMITTED: October 17, 1959

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBIATOWSKI, Wlodzimierz

The present state and development prospects of inorganic and physical chemistry in Poland. Review Pol Academy 5 no.1:32-52 Ja-Mr '60. (EEAI 10:3)

(Poland--Chemistry)

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TRZEBIATOWSKI, W.

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TRZEBIATOWSKI, W

Distr: 4E2c

Electrode potentials of uranium in molten salts. W. Trzebiatowski and A. Kisza (Politechnika, Wrocław, Poland). *Bull. acad. polon. sci., Sér. sci., Chim., géol. et géograph.* 7, 781-7(1959)(in English).—E.m.f. values of the cells U|UCl_3-AgCl|Ag and Pt|UCl_4, UCl_3-Ag|ClAg with molten LiCl-KCl mixt. as solvent were detd. at 668-855°K. and at U-salt mole fractions of 10^{-2}-10^{-4}. Extrapolation gave standard potentials at 673° of 1.587 and 0.186 v., resp. Heats of the reactions U + 3AgCl = UCl_3 + 3Ag and Ag + UCl_4 = UCl_3 + AgCl were −113.3 and −6.3 kcal./mole from the temp. dependence of the resp. equil. consts. The heat of the reaction U + 4AgCl = UCl_4 + 4Ag is −107.0 kcal./mole and the corresponding standard potential is 1.236 v.

J. Stocki

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

P/016/60/000/007/001/001
B016/B064

AUTHOR: Trzebiatowski, Włodzimierz, Professor, Doctor, Head of the Chair, Member of the PAN (Polish Academy of Sciences)

TITLE: Development of Basic Research of the Chemistry of Reactor Fuels and Materials in Poland

PERIODICAL: Wiadomości chemiczne, 1960, No. 7, pp. 453 - 460

TEXT: After the war, the basic research of the chemistry of rare elements had been conducted by only one institution, i.e. the Katedra Chemii Nieorganicznej I Politechniki Wrocławskiej (Chair of Inorganic Chemistry of the I Polytechnic Institute of Wrocław). The research work dealt mainly with compounds of uranium, thorium, titanium, and titanium-, platinum-, and rhenium alloys. After the Urząd Pełnomocnika do Spraw Pokojowego Wykorzystania Energii Jądrowej (Office of the Delegate for the Peaceful Uses of Atomic Energy) and the Instytut Badań Jądrowych (Institute of Nuclear Research) had been established and financial means procured, research work on the chemistry of reactor fuels and construction materials was carried out on a larger scale. Investigations were

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Development of Basic Research of the Chemistry of Reactor Fuels and Materials in Poland

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carried out at the Instytut Badań Jądrowych, Katedra Chemii Nieorganicznej Politechniki Wrocławskiej (Institute of Nuclear Research, Chair of Inorganic Chemistry of the Polytechnic Institute of Wrocław), the Instytut Chemii Fizycznej PAN (Institute of Physical Chemistry PAN), and the Katedra Chemii Nieorganicznej Uniwersytetu Wrocławskiego (Chair of Inorganic Chemistry of Wrocław University). The laboratories of the Chairs of Inorganic Chemistry of the Polytechnic Institute of Wrocław and of the Zakład Badań Strukturalnych Instytutu Chemii Fizycznej PAN we Wrocławiu (Institute of Structural Analyses of the Wrocław Institute of Physical Chemistry PAN) were modernized and equipped with an apparatus permitting physico-chemical investigations. Research work on the chemistry of the solid phases of uranium was continued here. The Instytut Chemii Fizycznej PAN (Warszawa) (Institute of Physical Chemistry PAN (Warsaw)) carried out research work of major practical importance, i.e., electrolytic production of thorium from molten salts containing zinc salt. Fundamental problems of uranium compounds in aqueous and non-aqueous solutions were dealt with. The structure and properties of uranyl compounds in organic solutions were thoroughly investigated. In his investigations of uranium complex compounds, the author carried out

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Development of Basic Research of the Chemistry of Reactor Fuels and Materials in Poland

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spectrophotometric investigations of the capability of uranyl ions of coordinating with tributyl phosphate (TBP). Scientific prizes were awarded for this research work by the Państwowa Rada do Spraw Pokojowego Wykorzystania Energii Jądrowej (State Council for the Peaceful Uses of Atomic Energy). In 1958, B. Jeżowska-Trzebiatowska was awarded the Personal Price of Class II and M. Taube that of Class III; in 1959, S. Minc and B. Staliński were awarded Personal Prices of Class II. A continuation of the research work depends, above all, on the available financial means. There are 37 non-Soviet references: 37 Polish.

ASSOCIATION: Katedra Chemii Nieorganicznej I Politechniki Wrocławskiej (Chair of Inorganic Chemistry of the I Polytechnic Institute of Wrocław)

SUBMITTED: February 6, 1960

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBIATOWSKI, W.; TERPILOWSKI, J.

Thermodynamic characteristics of intermetallic phases of the type of daltonides and berthollides. p. 97.

ARCHIWUM HUTNICTWA (Polska Akademia Nauk, Komitet Hutnictwa) Warszawa, Poland. Vol. 3, no. 2, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, September 1959. Uncl.

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TRZEBIATOWSKI, WŁODZIMIERZ

Distr: 4E3d

27

4

The electric properties of silver subfluoride. Włodzimierz Trzebiatowski and Jadwiga Różyczka (Politech., Wrocław, Poland). *Roczniki Chem.* 32, 183-7(1958)(English summary).—The elec. cond. of monocrystals of Ag_2F produced by anodic dissolving of Ag, was found at 18 and −170° to be 1.1×10^4 and 3.1×10^4, resp., by the d.c. compensating method, and 1.03×10^4 and 2.5×10^4 ohms.$^{-1}$ cm.$^{-1}$, resp., by measurements with a.c. of 50 and 1000 cycles. Crystals of Ag_2F have a pos. resistivity coeff. like metals. The Hall const. of Ag_2F is 1.0 ± 0.13 cu. m./coulomb, whereas that of pure Ag has the same sign and equals 9.2×10^{-11} cu. m./coulomb. Both were detd. at 7200 oersteds and 3 amps. under identical exptl. conditions. The sign of the thermoelec. force, detd. qualitatively against Ag, confirms the conclusion drawn from Hall coeff. detns., that free electrons are the carriers of electricity in Ag_2F. Their no. is 3.3×10^{22} for Ag_2F and 0.7×10^{23}/cc. for Ag. This may be supported by the structure of Ag_2F. The results confirm Pauling's suggestion (*The Nature of the Chemical Bond*, 1940 (*C.A.* 34, 5734[4])) that Ag_2F represents a compd. having a mixed type of ionic-metallic chem. bond.

A. Kręglewski

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POL/46-4-6-3/19

AUTHOR: Trzebiatowski, Włodzimierz; Bogacz, Aleksander; Barycka, Irena.

TITLE: Investigation on Reduction of Uranium (IV) Tetra-Chloride, Dissolved in Molten Salts, by Means of Excess Molten Aluminum.

PERIODICAL: Nukleonika, 1959, Nr 6, Vol IV, p 591-598

ABSTRACT: Research was conducted to find a method of producing aluminum-uranium alloy, applied as fuel in nuclear reactors, from uranium compounds. Usually this alloy is produced either by melting pure metals in desired proportions or by electrolysis of uranium compounds using as kathode molten aluminum in which separated uranium dissolves. For these experiments following ingredients were used: 99.9% aluminum, calcium chloride, sodium chloride, uranium (IV) tetra-chloride, uranium (IV) tetra-fluoride and sodium fluoride. All chemicals were chemically pure and free of moisture

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Investigation on Reduction of Uranium (IV) Tetra-Chloride, Dissolved in Molten Salts, by Means of Excess Molten Aluminum

traces. The experiments were carried out in the atmosphere of oxygen free nitrogen. Following salt mixtures were used during the experiments: a) $CaCl_2$ + NaCl, melting temperature 630°C, b) NaCl, melting temperature 801°C, c) $CaCl_2$, melting temperature 772°C, d) Eutectic mixture of CaF_2 + NaF, melting temperature 810°C. Four series of experiments were carried out applying various conditions, of temperatures and bath composition. The scientists list in their report a number of theoretically possible chemical reactions which might have taken place in the molten salt bath with uranium (IV) tetrachloride and also reactions which might have taken place if inadvertently, traces of oxygen would permeate into the aparatus. They also explain the separation process of free uranium, which dissolves in molten aluminium, forming the desired alloy. The experiments confirmed that reduction of uranium tetra

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POL/46-4-6-3/19

Investigation on Reduction of Uranium (IV) Tetra-Chloride, Dissolved in Molten Salts, by Means of Excess Molten Aluminum

fluoride to pure metal is accelerated and yields better output if carried out in the system of fluorides and chlorides (mixture b), whilst in the system of sole fluorides or sole chlorides it is sluggish and less efficient. With pure sodium chloride bath, the obtained alloy contained between 25 - 30% of uranium by weight. There are 8 references, of which 2 are French and 6 English. There is 1 drawing and 4 tables.

ASSOCIATION: Politechnika Wrocławska (Wrocław Polytechnic) Katedra Chemji Nieorganicznej (Chair of Inorganic Chemistry), Zakład Badań Strukturalnych PAN (Institute of Structural Research PAN).

SUBMITTED: June 1959.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBIATOWSKI, W.

Problems of the production and exploitation of nuclear power. p. 31

WIADOMOSCI CHEMICZNE. (Polskie Towarzystwo Chemiczne)
Wroclaw. Vol. 12, nol, Jan. 1958
Poland/

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, no. 6, June 1959
Uncl.

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TRZEBIATOWSKI, W.

21(8) PHASE I BOOK EXPLOITATION POL/2380

Wrocławskie Towarzystwo Naukowe

Izotopy; cztery odczyty o zastosowaniach (Isotopes; Four Lectures on Their Application) [Wrocław] Panstwowe wydawnictwo naukowe, 1957. 73 p. 2,000 copies printed.

Ed.: Jan Mergentaler.

PURPOSE: This publication is intended for both physicists and interested laymen.

COVERAGE: The collection of articles represents a series of lectures delivered at the Conference on the Use of Isotopes in Science and Technology organized by the Wrocławskie Towarzystwo Naukowe (Wrocław [Breslau] Science Association) at the Politechnika Wrocławska (Wrocław Polytechnic Institute), Nov. 5, 1955. The introduction was given by the chairman of the Association, Professor Doctor Stanislaw Kulczynski. The text of the four lectures is given in this volume. The discussions which followed these lectures are not given. No references are given.

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Trzebiatowski, Wlodzimierz. Radioactive Chemical Elements. This paper contains basic information about radioisotopes, their properties and preparation. 7

Baranowski, Tadeusz. Use of Isotopes in Biology This is a brief review of the development of isotopic methods in biological research. 17

Moscicki, Wlodzimierz. Isotopic Analysis in Absolute Chronology The author reviews methods used in age determination with the aid of radioactive isotopes: uranium dating, carbon C^{14} dating, and other methods. 31

Hurwic, Jozef. Use of Isotopes as Presented by the Geneva Conference, With Particular Attention to Radiochemistry This paper is a brief summary of the discussions on the use of isotopes held at the International Conference on the Peaceful Use of Atomic Energy, Geneva, August 1955. The author mentions the fact that the Soviet 61

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Isotopes (Cont.) POL/2380

contributed radioactive isotopes for the Polish research program.

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Country : Poland
Category= : Kinetics.Combustion.Explosions.Topochemistry. Catalysis.
Abs. Jour. : Ref Zhur - Khimiya, No 6, 1959 18554

Author : Damm, J.; Trzebiatowski, W.
Institut. :
Title : Study of the Reaction of Anhydride with Quartz. III. Reaction Kinetics at Temperatures up to 1230°. IV. Reaction Kinetics at Temperatures 1250-1310°.
Orig. Pub. : Roczn. chem., 1958,32,No 3,441-453;455-466

Abstract : III. Description of results of a study of kinetics of reaction $CaSO_4 + SiO_2$, conducted by thermogravimetric method in the temperature interval 1160°-1230°, with a change in granularity of starting materials. IV. Description of results of study of kinetics of reaction $CaSO_4 + SiO_2$, conducted thermogravimetrically, in temperature interval 1250°-1310°, with a change in granularity of the starting materials. Communication II see RZhKhim, 1958, 73236. -- Authors' summary.

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The reaction of anhydrite with quartz. III. Kinetics of the reaction up to 1230°. Józef Damm and Włodzimierz Trzebiatowski. (Politech., Wrocław, Poland). Roczniki Chem. 32, 441-63(1958)(English summary); cf. C.A. 50, 16321d.—Kinetics of the reaction of $CaSO_4$ with SiO_2 (1:1) was studied at 1160-1230° by the thermographic method. The results, presented by aid of a function for diffusion process: $f_1(G) = 1 - {}^2/_3G - (1 - G)^{2/3} = Kt$, where G is the mole fraction of the Ca silicate formed in time t, and K is a const., confirm the mechanism proposed previously. The plots of $f(G)$ vs. t show in the case of grain size of $CaSO_4$ equal to 13 μ and of SiO_2 equal to 10 and 40 μ two straight-line branches corresponding to the formation of $CaSiO_3$ and Ca_2SiO_4. For mixts. of the same grain sizes, branches of formation of $CaSiO_3$ are limited to approx. the same value of $f_1(G)$ independently of temp. The proportion of both products depends distinctly on grain size of the substrates. An equimol. mixt. of SiO_2 (70 μ) and $CaSO_4$ (13 μ) was transformed into α-$CaSiO_3$ with the yield 12 mole %, whereas 32.8% SiO_2 and 65.8% $CaSO_4$ yielded β-Ca_2SiO_4. Fine-grained reactants (below 2 and 4 μ, resp.) were transformed almost quantitatively into $CaSiO_3$ which was confirmed by x-ray analysis. $CaSiO_3$ was also exclusively formed when the ratio of $CaSO_4$ to SiO_2 was 1:9.25 and grain sizes 13 and 10 μ, resp. The changes in the proportion of $CaSiO_3$ and Ca_2SiO_4 in cases of equimol. mixts. of $CaSO_4$ and SiO_2 depending only on the grain size of SiO_2 seem to indicate the effect of concn. of gaseous product on the kind of compd. formed. At higher reaction rates, and thus higher concns. of gaseous product, $CaSiO_3$ is formed, whereas at lower concns. the more alk. Ca_2SiO_4 is formed. IV. Kinetics of the reaction at temperatures between 1250° and 1310°. Ibid. 455-66.—The reaction between $CaSO_4$ and SiO_2 was studied at 1250-1310° and was found to follow for this temp. range the equation: $f_2(G) = 1 - (1 - G)^{1/3} = Kt$, valid for dissocn. reactions of the type AB(solid) ⇌ A(solid) + B (gas). It can be adapted for reactions in presence of liquid phase if the compn. of the latter does not change during the reaction. Rapid heating of mixts. of $CaSO_4$ and $CaSiO_3$ up to 1290° confirms the hypothesis that a eutectic mixt. is formed by the compds., leading to appearance of liquid phase in the temp. range under consideration. A reaction scheme is given to fit the above equation when the presence of liquid phase is taken into account. Since 2 compns. of liquid are possible at a given temp. above the eutectic point (1250°), it is assumed that the deviations from linear relation of $f_2(G)$ vs. time are caused either by pptn. of solid from the liquid, or else by the change in compn. of the latter. A hypothetical diagram of the $CaSO_4$-$CaSiO_3$ system is suggested. A. Kręglewski

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FANTI, Anna, TRZEBICKI, Jacek

Neurologic manifestations in fractures of the spinous processes of the cervical vertebrae (according to observations on 2 cases). Polski tygod.lel, 15 no.12:432-434 21 Mr '60.

1. Z Oddziału Neurologicznego: ordynator: dr med. Bronislaw Stepien i z Pracowni Radiologicznej: kierownik: dr.Piotr Kozlowski; Panstwowego Szpitala dla Nerwowo i Psychicznie Chorych w Pruszkowie: dyrektor [illegible]

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POLAND

TRZEBICKI, Jacek and STEPIEN, Maria, Radiological Laboratory (Pracownia Radiologiczna) (Director: Dr. med P. KOZLOWSKI) of the Psychological Institute (Instytut Psychologiczny) (Director: Prof. Dr. med. Z. W. KULIGOWSKI) in Pruszkow and the Neurological Division (Oddzial Neurologiczny) ("Ordynator": Dr. med. I. WALD) of the Hospital for Nervous and Psychic Disorders (Szpital dla Nerwowo i Psychicznie Chorych) in Pruszkow (Director: Dr. med. F. KACZANOWSKI)

"On the So-called Baastrup Disease."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 4, 21 Jan 63, pp 136-139.

Abstract: [Authors' English summary modified] Authors found 70 cases of Baastrup disease among 1320 x rayed patients. No close relation between the radiological signs and clinical picture of the disease were found, and suggest [illegible]

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBICKI, Jacek

On the overlapping of frontal sinuses with cerebral ventricles in pneumoencephalography. Neurol., neurochir. psychiat. Pol. 14 no.3:411-420 My-Je '64

1. Z Pracowni Neuroradiologicznej Szpitala dla Nerwowo i Psychicznie Chorych i z Instytutu Psychoneurologicznego (Kierownik Pracowni: dr. med. P. Kozlowski).

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KOZLOWSKI, Piotr, dr. med.; TRZEBICKI, Jacek

Role of the cirsterna magna of the cerebellum in fractional pneumoencephalography. Neurol., neurochir., psychiat. Pol. 15 no.1:123-129 Ja-F'65.

1. Z Pracowni Neuroradiologicznej Instytutu Psychoneurologicznego i Szpitala dla Nerwowo i Psychicznie Chorych w Pruszkowie (Kierownik: dr. med. P. Kozlowski).

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NIEWIADOMSKA, Maria; SLOWIK, Tadeusz; STEPIEN, Lucjan; TRZEBICKI, Jacek

A case of cerebral angioma with temporal lobe epilepsy. Neurol. neurochir. psychiat. Pol. 15 no.3:481-484 My-Je '65.

1. Z Oddzialu Neurologicznego (Ordynator: doc. dr. I. Wald) i z Pracowni Radiologicznej Szpitala dla Nerwowo i Psychicznie chorych w Pruszkowie (Kierownik: dr. med. P. Kozlowski) i z Zakladu Neurochirurgii Polskej Akademii Nauk (Kierownik: doc. dr. S. Sierpinski).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBINSKA, M.

TRZEBINSKA, M.; DZIEWONSKI, Z.

Water reservoirs for agriculture.

p. 217 (Prace I Studia) No. 1, 1956, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBSKI, A.

The action of adrenaline, noradrenaline, and monamine oxidase inhibitors injected directly into the recticular formation of the brain stem. Bul Ac Pol biol 8 no.11:525-528 '60.

1. Department of Human Physiology, School of Medicine, Warsaw. Presented by F. Czubalski.

(ADRENALINE) (NORADRENALINE) (AMINES) (BRAIN) (OXIDASES)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBSKI, A.; CHOROSZEWSKA, A.; JANCZARSKI, I.; BENTYN, K.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBSKI, Andrzej

Studies on the effect of bile salts on the circulatory system. Rozpr.wydz.nauk méd. 5 no.1:51-140 '60.

1. Z Zakladu Fizjologii Czlowieka Akademii Medycznej w Warszawie Kierownik: prof. dr Franciszek Czubalski. Przedstawili: prof.. dr Piotr Kubilowski, prof. dr Julian Walawski. Adiunkt Zakladu Fizjologii Czlowieka AM.

(BILE ACIDS AND SALTS pharmacol)
(VASOMOTOR SYSTEM pharmacol)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

[illegible]

ORIG. PUB. : [illegible]

ABSTRACT : Investigations covering the period 1949-1956 have shown that a reduction of the sugar content of the beets leads to increased sugar losses in the molasses (M). The author presents diagrams showing that the variation in the sugar content of the M is not directly proportional to the variation of the sugar content of the beets. The ratio of these two quantities varied from year to year. For the period 1951-1956 the ratio was 0.113%, i.e., the increase in the sugar loss

CARD: 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

COUNTRY : Poland
CATEGORY : Cultivated Plants. Potatoes. Vegetables. Cucurbits.
ABS. JOUR. : [illegible], No. 1, 1959, No. [illegible]
AUTHOR : [illegible]
INST. : [illegible]
TITLE : Methods for the Rapid Determination of Inulin in Chicory Roots.

ORIG. PUB.: [illegible], 1957, [illegible], [illegible], [illegible]

ABSTRACT : Two methods are described: the polarimetric (1) and colorimetric (2) methods. Utilization of method 1 gives elevated results by [illegible], while method 2 gives, on the average, results that are 1% higher as compared with the actual inulin content.

CARD 1/[illegible]

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBINSKI, Janusz

Tyrosinase as a factor in the resistance to root rot in sugar beets. Acta agrobot 12:175-184 '62.

1. Zaklad Buraka i Innych Roslin Korzeniowych, Instytut Hodowli i Aklimatyzacji Roslin, Bydgoszcz. Kierownik: prof. dr St. Rosnowski.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBINSKI, J.

Influence of the filling and the moisture of the tobacco on the quality of cigarettes.

P. 383 (PREZEMYSL SPOZYWCAY) (Warsaw, Poland) Vol.11, no. 9, Sept. 1957

SO: Monthly Index of East EuropeanAccession (EEAI) LC Vol. 7, No. 5, 1958

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBINSKI, J.

"Amateurish treatment", p. 2, (ZDROWIE, Vol. 5, No. 7, 1953, Warszawa, Poland)

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 4, April, 1954

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

BALICKA, N.; TRZEBINSKI, M.

Enzymic activity and amount of vitamin B2 in soil. Acta microb. polon. 5 no.3-4:377-384 1956.

1. Z Zakladu Mikrobiologii Rolnej Wyzszej Szkoly Rolniczej we Wroclawiu.

(SOIL
enzymic activity & vitamin B2 content, correlation with bact. count (Pol))

(ENZYMES
enzymic activity & vitamin B2 content of soil, relation to bact. count (Pol))

(VITAMIN B2
in soil, relation to enzymic activity & bact. count of of soil (Pol))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBISKI, J.

Soil improvements in the Sroda River Valley in relation to the Oder River cascade at Brzeg Dolny. p. 73.

GOSPODARKA WODNA. (Naczelna Organizacia Techniczna) Warszawa, Poland. Vol. 19, no. 2, Feb. 1959.

Monthly list of East European Accessions Index (EEAI), LC, Vol. 8, no. 6, June 1959
uncla.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

COUNTRY : Poland H-34
CATEGORY :

ABS. JOUR. : RZKhim., No. 1959, No. 88773

AUTHOR : Trzebinski, T.
INST. :
TITLE : The Causes of Pile Rolling on the Surface of Textile Articles and Methods for Its Prevention
ORIG. PUB. : Przegl. wlokienn., 1959, 13, No 2, 64-66

ABSTRACT : A serious fault of fabrics containing synthetic fibers is the rolling of surface pile. To prevent occurence of this defect it is necessary to increase friction between fibers within the fabric, which can be effected by mechanical or by chemical means or by a combined use of both. It is recommended to use fibers of larger diameter, twisted yarns, to resort to thorough fluffing of mixtures, extensive singeing and shearing of fabrics, to avoid the use of wax- or soap-based compositions. As chemical preparations, use is made of Calaton CA (methoxymethylated polyamide in 80% aqueous C_2H_5OH solution), aqueous dispersions of polyvinyl acetate, glycerol, mineral oils, ethanolamine. With fabrics

CARD: 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

COUNTRY : Poland H-34
CATEGORY :

ABS. JOUR. : RZKhim., No. 1959, No. 88773

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : containing 55% wool and 45% Tergal (polyester fiber) good results are obtained on treatment with saturated steam (100°, 30 minutes). As yet this problem has not been completely solved. -- I. Podiman

CARD: 2/2

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBINSKI, W.

GEOGRAPHY & GEOLOGY

TRZEBINSKI, W. Niemiecki Podzialy administracyjne ziem polskich w okresie 1815-1945 r. ; zarys history-czny. Warsxawa, Polska Akademia Nauk, Instytut Geografii, 1955. 52 p. (Lokumentacja geograficzna, zesz. 9)

Monthly List of East European Accessions (EEAI) LC. Vol, 8, No. 4
April 1959, Unclass

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

JOZWICKI, R.; TRZEBINSKI, T.

Blending Elana fiber with wool in worsted yarn spinning.
Przegl wlokien 16 no.9:471-478 S '62.

1. Instytut Wlokiennictwa, Lodz.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

COUNTRY :
CATEGORY :
DATE PUB. :

DATE PUB. :
ABSTRACT :

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

COUNTRY :
CATEGORY :

ABS. JOUR. : RZKhim., No. 1 1960, No. 3360

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : III, the losses in washing, as well as in the mechanical shearing strength of the fabric, are insignificant; application of the product [illegible] of 13-15% of the weight of the [illegible] is sufficient -- [illegible]

CARD: 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

Country : Poland
Category : Chemical Technology. Chemical Products and Their Applications. Dyeing and chemical treatment of [illegible] H-34
Abs. Jour. : [illegible] Khim., No 11, [illegible]
Author : [illegible]
Institut. : [illegible]
Title : The Chemical Modification of Cellulose Fibers. II.

Orig. Pub. : Przeglad Wlokienn, 12, No 5, 142-146 (1958)

Abstract : A survey of methods used for the partial acetylation of cotton and a review of the physical and chemical properties of acetyl cellulose. The bibliography lists 11 titles: for Communication I see RZhKhim, 1958, 83860.

E. Natkhan

Card: 1/1 *textile materials.

H-185

POLAND/Chemical Technology - Dreing and Chemical Treatment of Textile Materials H-34

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

Abs Jour : Ref Zhur - Khimiya, No 24, 1958, 83860

Author : Trzebny, W.
Inst : -
Title : The Chemical Treatment of Cotton Fibers. I.

Orig Pub : Przegl. wlokienn., 1959, 12, No 2, 94-96

Abstract : The processes of improving the quality of cotton are discussed. These are based on modifying cellulose, as well as the properties of a fibric mercerized without stress, and also in decreasing the crystallinity as the result of the cellulose modification.

[illegible]

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

DOBEK, M.; KOMCZYNSKI, L.; RUDNICKA, M.; SUSZKO, K.; TRZEBNY, W.; WOJCIECHOWSKA, M.

The influence of isonicotine acid hydrazide upon experimental tuberculosis in guinea-pigs. Bull. Soc. amis sc. Poznan, ser. C No.4:65-78 1954.

1. Institute of Microbiology of the Medical Academy of Poznan.
(NICOTINIC ACID ISOMERS, effects,
isoniazid on exper. tuberc.)
(TUBERCULOSIS, experimental,
eff. of isoniazid)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

ACC NR: AP6027101 (N) SOURCE CODE: PO/0022/66/040/001/0055/0060

AUTHOR: [illegible]

ORG: [illegible]

TITLE: Chemical constituent of Euphorbia lathyris L. II. A crystalline substance from the oil of caper spurge seeds

SOURCE: Roczniki chemii - annales societatis chimicae polonorum, v. 40, no. 1, 1966, 55-60

TOPIC TAGS: chromatography, hydrogenation, chemical composition, organic crystal, processed plant product, melting point

ABSTRACT: From the oil of caper spurge seeds a homogeneous crystalline substance of m.p. = 199-200° and formula $C_{20}H_{24}O_5$ was chromatographically separated which, upon hydrogenation, yielded a crystalline substance of m.p. 189-190°C and formula $C_{20}H_{28}O_5$. Orig. art. has: 4 figures and 3 tables. [Based on author's Eng. abst.] [JPRS: 35,392]

SUB CODE: 07 / SUBM DATE: 06Apr65 / SOV REF: 001 / OTH REF: 001

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBSKA-JISKE, Irena; MORKOWSKA-GLUZINSKA, Wanda

Content of nitrogen and certain essential amino acids in the grain of Polish rye from the 1959 harvest. Roczn panstw zakl hig no.2:153-166 '63

1. Department of Feeding Hygiene, State Institute of Hygiene, Warsaw.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

no.6:795-811 '61.

1. Zaklad Fizjologii Czlowieka, Akademia Medyczna, Warszawa. Kierownik: dr., prof. W. Missiuro, redaktor naczelny i czlonek kolegium redakcyjnego "Acta Physiologica Polonica". Adres autora: Zaklad Fizjologii Czlowieka A.M. Warszawa, Krakowskie Przedmiescie 26/28.

(NERVES) (HORMONES)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBSKI, Andrzej

Studies on the excitability of the cardiovascular centers in the hypothalamus and brain stem during hypovolemic hemorrhagic shocks in cats. Acta physiol.polon.11 no.4:503-517 '60.

1. Z Zakladu Fizjologii Czlowieka A.M. w Warszawie. Kierownik: prof.dr. Fr.Czubalski.

(HYPOTHALAMUS physiol)
(BRAIN STEM physiol)
(CARDIOVASCULAR SYSTEM physiol)
(SHOCK exper)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

LESINSKI, Jan; TRZEBSKI, Andrzej

Effect of calcium and magnesium salts of glutamic acid on the increased sensitivity to oxytocin of the excised uterus. Gin. polska 32 no.4:463-467 '61.

1. Z Pracowni Fizjopatologii Narzadu Rodnego Instytutu Matki i Dziecka w Warszawie Dyrektor Instytutu: prof. dr F. Groer Kierownik Dzialu Matki: prof. dr J. Lesinski
(UTERUS pharmacol)
(OXYTOCIN pharmacol)
(GLUTAMATES pharmacol)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBSKI, A.

Investigations on the excitability of the cardiovascular centers of the hypothalamus and brain stem in acute hemorrhagic hypovolemic shock in cats. Bul Ac Pol biol 8 no.7:317-321 '60. (EEAI 10:4)

1. Laboratory of Human Physiology, School of Medicine, Warsaw. Presented by F.Czubalski.

(SHOCK)
(CARDIOVASCULAR SYSTEM)
(HYPOTHALAMUS)
(BRAIN)
(HEMORRHAGE)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

JANCZARSKI, I.; TRZEBSKI, A.; BENTYN, K.

On the presence in brain extracts of choline esters acting upon the myometrium. Acta physiol.polon. 11 no.5/6:732-733 '60.

1. Z Pracowni Fizjopatologii Narzadu Rodnego Instytutu Matki i Dziecka w Warszawie, Kierownik Dzialu Matki: prof.dr J.Lesinski Dyrektor Instytutu: prof.dr F.Groer.

(CHOLINE pharmacol)
(BRAIN extracts)
(UTERUS pharmacol)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBSKI, A.

Further studies on the effect of serotonin on cardiovascular centers of the hypothalamus and brain stem. Acta physiol.polon. 11 no.5/6:901-903 '60.

1. Z Zakladu Fizjologii Czlowieka A.M. w Warszawie, Kierownik: prof.dr F.Czubalski.

(BRAIN STEM pharmacol)
(HYPOTHALAMUS pharmacol)
(VASOMOTOR SYSTEM pharmacol)
(SEROTONIN pharmacol)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBSKI, A.

Studies on the mechanism of hypotensive activity of reserpine Acta physiol. polon. 11 no. 2/[illegible] 1960.

1. Z Zakładu Fizjologii Człowieka A.M. w Warszawie, Kierownik: prof.dr. F.Czubalski.
(RESERPINE pharmacol)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBSKI, A.

Effect of acetylcholine on cardiovascular centers of the hypothalamus and brain stem in cats. Acta physiol.polon, 11 no.5/6:904-905 '60.

1. Z Zakladu Fizjologii Czlowieka A.M. w Warszawie, Kierownik: prof.dr F.Czubalski.
(ACETYLCHOLINE pharmacol)
(HYPOTHALAMUS pharmacol)
(BRAIN STEM pharmacol)
(VASOMOTOR SYSTEM pharmacol)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBSKI, A.

On the activity of adrenalin noradrenalin and monoamine oxidase inhibitors administered directly into the reticular formation of the brain stem by means of a micro-injection method. Acta physiol. polon. 11 no.5/6:905-907 '60.

1. Z Zakladu Fizjologii Czlowieka A.M. w Warszawie, Kierownik: prof. dr F.Czubalski.
(BRAIN STEM pharmacol)
(EPINEPHRINE pharmacol)
(MOREPINEPHRINE pharmacol)
(OXIDASES antag).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBSKI, A.

Investigations on the mechanisms of pressor after-effects following the irritation of the pressor and depressor areas of the reticular formation of the brain stem in cats. Acta physiol.polon. 10 no.6:709-720 N-D '59.

1. Z Zakladu Fizjologii Czlowieka A.M. w Warszawie. Kierownik: prof.dr Fr.Czubalski.

(VASOMOTOR SYSTEM physiol.)
(BRAIN STEM physiol.)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBSKI, A.

Influence of the altered functions of the cerebral cortex of the students during the examination on the count and composition of the circulating white blood cells. Acta physiol. polon. 3 Suppl. 3. 191-194 1952. (CIML 24:1)

1. Of the Institute of Human Physiology (Head--Prof. Fr. Czubalski, M.D.) of Warsaw Medical Academy.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBSKI, A.; LEWARTOWSKI, B.

Increased anoxia resistance of the heart perfused with aspartic acid salts. Bul Ac Pol biol 7 no.7:283-286 '59. (EEAI 9:6)

1. Laboratory of Human Physiology, School of Medicine, Warsaw. Ward of Internal Diseases, Municipal Hospital Nr.8, Warsaw. Presented by F. Czubalski.
(anoxia) (Aspartic acid) (Salts) (Heart)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

KRZESKI, Tadeusz; TRZEBSKI, Andrzej

Reflex changes in renal circulation following irritation of mechanoreceptors of the bladder. Polski tygod. lek. 11 no.13: 561-567 26 Mar 56.

1. Z Zakladu Fizjologii Czlowieka A.M. w Warszawie; Kierownik prof. dr. Fr. Czubalski.
(KIDNEYS, blood supply,
eff. of bladder stimulation on renal circ. (Pol))
(BLADDER, physiology,
eff. of stimulation on renal circ. (Pol))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBSKI, A.

Effect of serotonin (5-hydroxytryptamine) on hypotensive effect of histamine. Acta physiol. polon. 10 no.1:67-78 Jan-Feb 59.

1. Z Zakładu Fizjologii Doświadczalnej A.M. w Warszawie Kierownik: prof. dr F. Czubalski.

(HISTAMINE, effects,
hypotension in cats, eff. of serotonin (Pol))
(SEROTONIN, effects,
on hypotension induced in cats with histamine (Pol))
(HYPOTENSION, exper.
histamine-induced, eff. of serotonin in cats (Pol))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBSKI, A.

Studies on the role of the central and autonomic nervous systems and of certain mediators in the mechanism of hypotensive activity of bile salts. Acta physiol. polon. 10 no.1:79-97 Jan-Feb 59.

1. Z Zakladu Fizjologii Czlowieka A.M. w Warszawie Kierownik: prof. dr F. Czubalski.

(BILE ACIDS & SALTS, effects,
hypotension in animals, neural factors (Pol))
(HYPOTENSION, exper.
bile salt-induced, neural factors (Pol))
(NERVOUS SYSTEM, physiol.
in hypotensive eff. of bile salts (Pol))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

TRZEBSKI, A.

Effect of serotonin (5-hydroxytryptamine) introduced directly into the medullary reticular formation. Acta physiol. polon. 10 no.2: 268-269 Mar-Apr 59.

1. Z Zakladu Fizjologii Czlowieka A.M. w Warszawie Kierownik: prof. dr Fr. Czubalski.

(SEROTONIN, eff.
on resp., admin. into medullary reticular form (Pol))
(MEDULLA OBLONGATA, eff. of drugs on,
serotonin, admin. into reticular form., resp. responses (Pol))
(RESPIRATION, eff. of drugs on,
serotonin, admin. into medullary reticular form. (Pol))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5

[illegible], [illegible]

Method of implantation of needle-electrodes into various cerebral centers. Acta physiol. polon. 10 no.2:269-271 Mar-Apr 59.

1. Z Zakladu Fizjologii Czlowieka A.M. w Warszawie Kierownik: prof. dr Fr. Czumalski.
(BRAIN, physiol.
needle-electrode implantation (Pol))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756910007-5"