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ACC NR: AN6023694

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SUB CODE: 09/ SUBM DATE: 07Sep65/ ORIG REF: 122/ OTH REF: 156

nd
Card 3/3

ARKHIPOV, P.P., inzhener; IVANOV, Ye.D., inzhener; KHYLOV, N.V., inzhener-arkhitekto; NIKANDROV, B.I., inzhener-arkhitekto; NOSKOV, B.G., inzhener-arkhitekto; RYABTSEV, M.N., vetvrach; SOKHRANICHEV, N.S., inzhener-arkhitekto; TSIBUL'SKIY, L.A., kandidat sel'skokhozyaystvennykh nauk; PIOTROVSKIY, M.I., inzhener, retsentsent; VOL'FOVSKAYA, V.E., redaktor; FEDOTOVA, A.P., tekhnicheskii redaktor.

[Handbook on the construction of farm buildings] Spravochnik po sel'skokhozyaystvennomu stroitel'stvu. Moskva, Gos. izd-vo selkhoz. lit-ry.
Vol. 2. 1952. 579 p. (MLBA 8:2)
(Farm buildings) (Building)

ZNAMENSKIY, Petr Alekseyevich; MOSHKOV, Sergey Sergeevich; PIOTROVSKIY,
Mikhail Iulianovich; RYMKOVICH, Pavel Adamovich; SHVAYCHENKO,
Ivan Markovich; GOBANOV, A.A., red.; RAKOVITSKIY, I.G., tekhn.red.

[Collection of questions and problems in physics for grades 8-10
in secondary schools] Sbornik voprosov i zadach po fizike dlia
VIII-X klassov srednei shkoly. Pod red. P.A.Znamenskogo. Izd.11.
Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv. RSFSR, 1959.

191 p.

(MIRA 12:6)

(Physics--Problems, exercises, etc.)

ORLOV, I.V.; PIOTROVSKIY, M.V.; ZVONKOVA, T.V.; LEONT'YEV, O.K.

Objectives and features of geomorphological studies in prospecting
for minerals. Vop. geog. no. 52:28-34 '61. (MIRA 14:6)
(Geology, Economic)

BASHENINA, Nina Viktorovna; LEONT'YEV, Oleg Konstantinovich;
PIOTROVSKIY, Mikhail Vladimirovich; SIMONOV, Yuriy
Gavrilovich; VYSKARBENTSEVA, V.S.; ZADITSKAYA, I.P.;
Prinimali uchastiye ZORIN, L.V.; OKLOV, I.V.; ZVONKOVA,
T.V.; FEDOROVICH, E.A.; SHATALOV, Ye.T., retsenzent;
GLAZOVSKAYA, M.A., retsenzent; ARISTARKHOVA, L.B., re-
tsenzent; YERMAKOV, M.S., tekhn. red.

[Methodological guide to geomorphological mapping and
the carrying out of geomorphological surveys at scales of
1:50 000 - 1:25 000 (with legend)] Metodicheskoe ruko-
vodstvo po geomorfologicheskomu kartirovaniyu i proizvod-
stvu geomorfologicheskoi s"emki v mashtabe 1:50 000 -
1:25 000 (s legendoi). Pod red. N.V. Basheninoi. Moskva,
Izd-vo Mosk. univ., 1962. 202 p. ___ [Legend; supplements
VIII-[XI]] Legenda geomorfologicheskoi karty Sovetskogo
Soiuza mashtaba 1:50 000 - 1:25 000; prilozhenie VIII-
[XI] 1960. 25 p. (MIRA 15:7)

(Geomorphology--Maps)

BASHENINA, N.V.; LEONT'YEV, O.K.; SIMONOV, Yu.O.; VYSKREHENTSEVA, V.S.
VOSKRESENSKIY, S.S.; PIOTROVSKIY, M.V.

Genetic classification of the relief and the principles of making
large-scale geomorphological maps. Izv. AN SSSR.Ser.geog. no.1:115-120
Ja-F '58. (MIRA 11:2)

1.Geograficheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta
im. M.V. Lomonosova.

(Physical geography) (Maps)

PIOTROVSKIY, M.V.

Тема: I ВНЕШНЯЯ

Abstract: This volume is intended for photogrammetrists, geologists, geographers, and other scientific and technical personnel concerned with aerial photography.

Summary: This issue of the Transactions of the Laboratory of Aerial Survey Methods contains the second part of materials presented at the All-Union Interdepartmental Conference on Aerial Surveying Methods, which took place in Moscow, November 25 through December 1, 1976. Articles treat problems dealing with the execution and application of aerial surveying methods in geological, geomorphological, and geophysical investigations. Special attention is directed to methods of geological and geomorphological mapping and geophysical work under different conditions. The techniques of joint airborne magnetic prospecting and aerial photography are described. References accompany individual articles.

TABLE OF CONTENTS:

Ulyashin, V. S. [Charting program of USSR - Institute of Geography, Academy of Sciences USSR]. Utilization of Aerial Photographs to the Study of Relief Characteristics of the Buryat Soviet Republic [Buryatskaya ASSR] 178

Petrov'yev, I. V. [Zaibitvat maritovrochnykh i m. V. A. Oshcherev - Institute of Penetration Studies (Lead V. A. Oshcherev)]. Application of Aerial-Survey Methods to the Study of Relief Forms in the Arvid of Pechennitskiy Proton Formations 190

Bel', A. S. [Institute of Geography, Academy of Sciences USSR]. The Significance of Aerial Photography in the Reconstitution of the Paleogeography of the Lower Anchar'ya Region 193

Sebechkin, B. I. [Laboratory of Aerial Survey Methods, Academy of Sciences USSR]. Certain Problems of the Recent Paleogeography of the Buryat Part of the Gorniy Zee (Based on Aerogeological Data) 205

Plutovskiy, V. I. and A. A. Repretovskiy [Tomskiy univ. sotsialno-ekonomicheskoye gosudarstvennoye institut izvestnykh, reditsiya i izdatel'stvo]. Gosudarstvennoye nauchno-issledovatel'skoye institut dlya razrabotki, izucheniya i primeneniya nauki i tekhnologii. Application of Aerial-Survey Methods to Prospecting and Exploring Alluvial Mineral Deposits 216

Logachev, A. A. [Leningradskiy gosuniv. Institut - Leningradskiy Institut of Mining]. Aerogeophysical Methods and Their Application to Geological Surveying and Prospecting Schemes; Ways of Increasing the Efficiency of Such Methods 228

Logachev, V. A. and G. F. Imenetskiy [All-Union Trust for Aerial Geological Surveying]. Results of Applying Aeromagnetic Survey Data to Geological Mapping of the USSR 229

Prokhorov, E. G. [Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki - All-Union Scientific Research Institute of Geophysical Prospecting Methods]. The Use of Aerial Magnetic [Magnetometric] Prospecting in the DTA and USSR 236

Mironov, G. S. [Ministerstvo geologii i obratnoy razrabotki. Ministerstvo geologii i obratnoy razrabotki. Fundamentals Principles of the Theory and Methodology of Aerial Radiometric Surveying and Prospecting] 245

PISTOVNIK, M. V.

1941, State University of M.S. University, (-146-)

Department of State, Bureau of Intelligence and Research, "The Soviet Union and the World"

12. A. Mark S. W., Ser. of Ref. Law Files, 1941-1942

SECRET, . . .

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PIOTROVSKIY, M.V.

L.C.King's article "Canons of landscape evolution" [in English] (Bulletin of the Geological Society of America, 1953, v.64, no.7). Vop. geog.36:254-257 '54. (MLRA 8:4)
(Physical geography) (Erosion)

PIOTROVSKIY, M.Yu., professor (gorod Leningrad).

Celebration honoring professor P.A.Znamenskii, correspondent
member of the Academy of Pedagogical Sciences of the R.S.F.S.R.
Vis.v shkole 14 no.2:86-88 Mr-Apr '54. (MLRA 7:2)
(Znamenskii, Petr Alekseevich, 1878-)

PIOTORVSKIY M. YU.

PIOTORVSKIY, M. Yu., professor (Leningrad)

Discussion of prof. N.N. Malov's article. *Fiz. v shkole* 14
no. 6:67-69 M-D '54. (MLRA 7:12)
(Physics--Study and teaching) (Malov, N.N.)

SMIRNOV, I.I., starshiy nauchnyy sotrudnik; SHENAYEVA, K.I., inzh.;
PIOTROVSKIY, S.L., konstruktor.

Improvements in finishing picking machines. Tekst.prom. 18
no.5:25-27 My '59. (MIRA 11:5)
(Cotton machinery)

Petrovskiy, R. G.

AUTHOR: None Given

10-12-44/2

TITLE: Defense of Dissertations (Zashchita Dissertatsiy)
(January - July 1957) (Yanvar - iyul' 1957)
Scient. for Literature and Languages (Otdeleniye literatury
i yazykov)

PERIODICAL: Vestnik AN SSSR 1957, Vol. 27, Nr 12, pp. 128-129 (USSR)

ABSTRACT: At the Institute for World Literature imeni A. M. Gor'kiy
(Institut mirovoy literatury imeni A. M. Gor'kogo)
Applications for the degree of Candidate of Philology:
M. Borbagulov - Kirgiz Soviet Dramaturgy (Kirgizskaya sovetskaya
dramaturgiya) Ye. I. Prokhorov - The Problem of the
determination of the official version of Gogol's Artistic Prose
(Problema ustanovleniya kanonicheskogo teksta khudozhestvennoy
prozy Gogolya).
At the Institute for Linguistics (Institut yazykoznaviya).
Applications for the degree of Doctor of Philology:
M. N. Kolyadenkov - The Structure of the simple phrases in the
Mordvinian Languages (The Sentence and its main Parts)
(Struktura prostogo predlozheniya v mordvinskikh yazykakh)
(predlozheniye i yego glavnyye chleny) R. G. Petrovskiy
Formation of the definite article in the Romance languages

Card 1/3

30-12-44, 45

Defense of Dissertations
(January - July 1977)
Section for Literature and Language

(O formirovani predelennogo artikliya v romanskikh
yazykakh) V. S. ... Affixes formation in
Azerbaijani. Literary ... (Affiksall'noye slovo-
obrazovaniye v azerbajdzhanakom literaturnom yazyke)
Applications for the degree of Candidate of Philology:
Z. G. Abdilayev - The Cases and their functions in the
Dargwa ... (Kasusnyye funktsii v
darginskoy literaturnoy yazyke) O. M. Asyev - Compound nouns,
adjectives and Equivalent Combinations of Words in the Modern
French Language (Slozhnyye imena prilagatel'nyye i
ekvivalentnyye im slovosochetaniya v sovremennom frantsuzskom
yazyke) N. V. Podolskaya - Toponymy of the country of
Novgorod according to Novgorod manuscripts and writings of the
11-15 centuries (Toponimika novgorodskoy zemli po dannym
novgorodskikh pis'mennykh pamyatnikov 11-15 vekov).
N. V. Churmayeva - The History of the appearance of the
difference in gender in the Plural in the case of words that
change according to gender in the Russian Language
(Istoriya raznykh vykhodov raznykh slov po razlichnykh
stavbenam)

Card 2/3

Defense of Dissertations
(January - July 1957)
Series for Literature and Language

10-11-57

Список изменений к журналу "Литература и Язык"

AVAILABLE: Library of Congress

1. Literature--USSR 2. Languages

Card 2/3

VANCHIKOV, A.N., doktor tekhn.nauk; SHILINA, L.S., mladshiy nauchnyy
sotrudnik; PIOTROVSKIY, S.L., konstruktor

Web drawing from synthetic staple fibers on carding machines.
Tekst. prom. 20 no. 11:22-25 N '60. (MIRA 13:12)
(Rayon spinning)

PIOTROVSKIY, V. (Moskva)

In memory of Aleksei Aleksandrovich Gedeonov, v. 10, p. 11, ankole 22
no. 3:85 My-Je '59. (1959:12:11)
(Gedeonov, Aleksei Aleksandrovich, 1911-1959)

PICTOVSKIY, Vladimir Feliksevich

PICTOVSKIY, Vladimir Feliksevich.....Severo-Zhurnal'nyy rayon. Moskva, Planovoe
khoziaistvo, 1 27. 133 p. Razony Evropeiskoi chasti SSSR; pod red. S.S.
Grigor'eva (i dr.); vyv. I.) (Ekonomiko-geograficheskie ocherki SSSR. kn. 1.
M.D.: Unclass.

StY NM

SO: LC, Soviet Geography, Part II, 1961/Unclassified

PICTROVSKIY, . . .

Photo of [illegible] . . .
[illegible] . . .
[illegible] . . .
[illegible] . . . 1947 .

PIOTROVSKIY, V. G.

SHEPTALIN, V.A.; PIOTROVSKIY, V.G.

Tolerances for finishing countersinks. Stan. 1 instr. 25
no.7:36-37 J1 '54. (MLRA 7:8)
(Machine tools)

PIOTROVSKIY, V. G.

USSR/Engineering - Machine tools

Card : 1/1

Authors : Sheptalin, V. A. and Piotrovskiy, V. G.

Title : Concerning tolerances for reamers.

Periodical : Stan. i Instr., Ed. 7, 36 - 37, July 1954

Abstract : Suggestions are made for the selection of reamers, for reaming holes within a variation from standard size. Tolerances, allowable errors, and accounts for the wear limit of reamers, are given. Diagram; table.

Institution :

Submitted :

LOMAGIN, F.Ye.; PIOTROVSKIY, V.K.; LYSTSOV, A.I.

Ways to increase the recovery of metals from copper-nickel
sulfide ores. *Svet. met.* 35 no.7:21-28 J1 '62.
(MIRA 15:11)

(Copper--Metallurgy) (Nickel--Metallurgy)

PIOTROVSKIY, V.K.

Role of magnetite in the process of converter slag impoverishment.
TSvet. met. 35 no.1:37-42 Ja '62. (MIRA 1:17)
(Nonferrous metals--Metallurgy) (Magnetite)

SOV/136-59-4-15/24
AUTHORS: Piotrovskiy, V.K., Odegov, Ye.V. and Kalachikova, N.V.
TITLE: Hearth Blocks in Electric Furnaces with a Steel Core for
Copper Melting (Podovyye kamni v elektropetchakh so
stal'nyy serdechnikom dlya plavki medi)

PERIODICAL: Tsvetnyye metally, 1959, Nr 4, pp 74-78 (USSR)

ABSTRACT: The authors discuss the advantages of the "Skometa" type copper-melting furnace (Fig 1) in which the core-containing hearth block is not in direct contact with the metal bath (Fig 2). The Elektropech' trust (trust) recently designed a 15-tonne furnace of this type (OKB-303) with a steel core and six inductors. An experimental 1/8-scale furnace was built to provide experience in the USSR of this type and design data. The authors describe this work in which three types of hearth block were tested. The first was made of rammed siliceous paste with manual tamping within the furnace; the second consisted of specially moulded and fired artificial-corundum blocks; moulded but unfired fireclay or electrocorundum-base materials were used in the third. The details of materials and methods are

Card 1/2

SOV/136-59-4-15/24

Hearth Blocks in Electric Furnaces with a Steel Core for Copper Melting

tabulated. Preliminary tests showed the first two types to be unsatisfactory, the fireclay variant of the third type giving the best results. Improved production methods were developed: a semi-acid high-alumina fireclay with quartz, tamped pneumatically into special moulds (Fig 3) gave blocks with a life of 2.5 months. The furnace starting-procedure was designed to avoid the formation of air pockets in the block channels. The authors stress the importance of avoiding copper-oxide attack on the block and recommend that the block casing should be attached, without intermediate flanges, to the furnace casing. N.A. Finogenova and E. O. Shternbek of the Noril'skiy kombinat (Noril'sk Combine) participated in the work. There are 4 figures and 1 table.

ASSOCIATION: Noril'skiy kombinat (Noril'sk Combine)

Card 2/2

PIOTROVSKIY, Vladimir Vladimirovich; PODOBKOV, N.S., prof., rezensent;
BOGOMOLOV, L.A., dotsent, rezensent; GELLER, S.Yu., doktor geograf.
nauk, rezensent; BLAGOVOLIN, N.S., nauchnyy sotrudnik, rezensent;
BOGDANOVA, N.M., nauchnyy sotrudnik, rezensent; DOSKACH, A.G.,
nauchnyy sotrudnik, rezensent; ZHIVAGO, A.V., nauchnyy sotrudnik,
rezensent; RANTSMAN, Ye.Ya., nauchnyy sotrudnik, rezensent; NIKOLAYEV,
N.I., prof., rezensent; DOBROVOL'SKIY, V.V., dotsent, rezensent;
VOSKRESENSKIY, S.S., red.; SHAMAROVA, T.A., red, izd-va; PREYS, E.M.,
tekhn.red.

[Geomorphology and fundamentals of geology] Geomorfologiya s osnovami
geologii, Riga, Izd-vo geodez.lit-ry, 1961. 283 p.

- (MIRA 14:12)
1. Nachal'nik otdela geomorfologii Instituta geografii AN SSSR (for Geller).
2. Otdel geomorfologii Instituta geografii AN SSSR (for Blagovolin, Bogda-
nova, Doskach, Zhivago, Rantsman).
(Geomorphology) (Geology)

PIOTROVSKIY, V.V., dotsent, kand.geograficheskikh nauk

Migration of radioactive elements and its role in the development
of the lithosphere. Trudy MIIGAIM no.44:23-33 '61.

(MIRA 14:7)

1. Moskovskiy institut inzhenerov geodezii, aerofotos"yemki
i kartografii, kafedra fizicheskoy geografii.

(Radioactive substances)
(Geology)

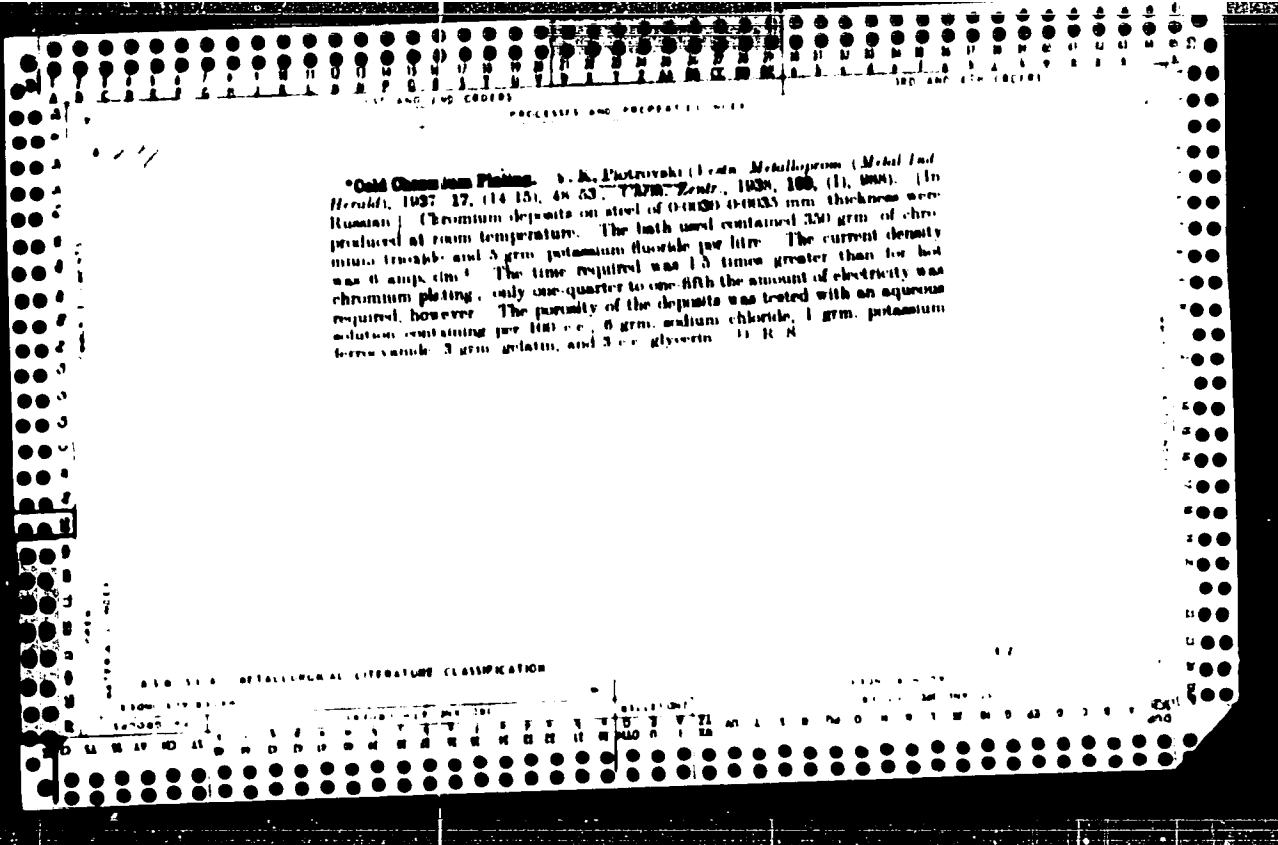
PIOTROWSKA, Anna

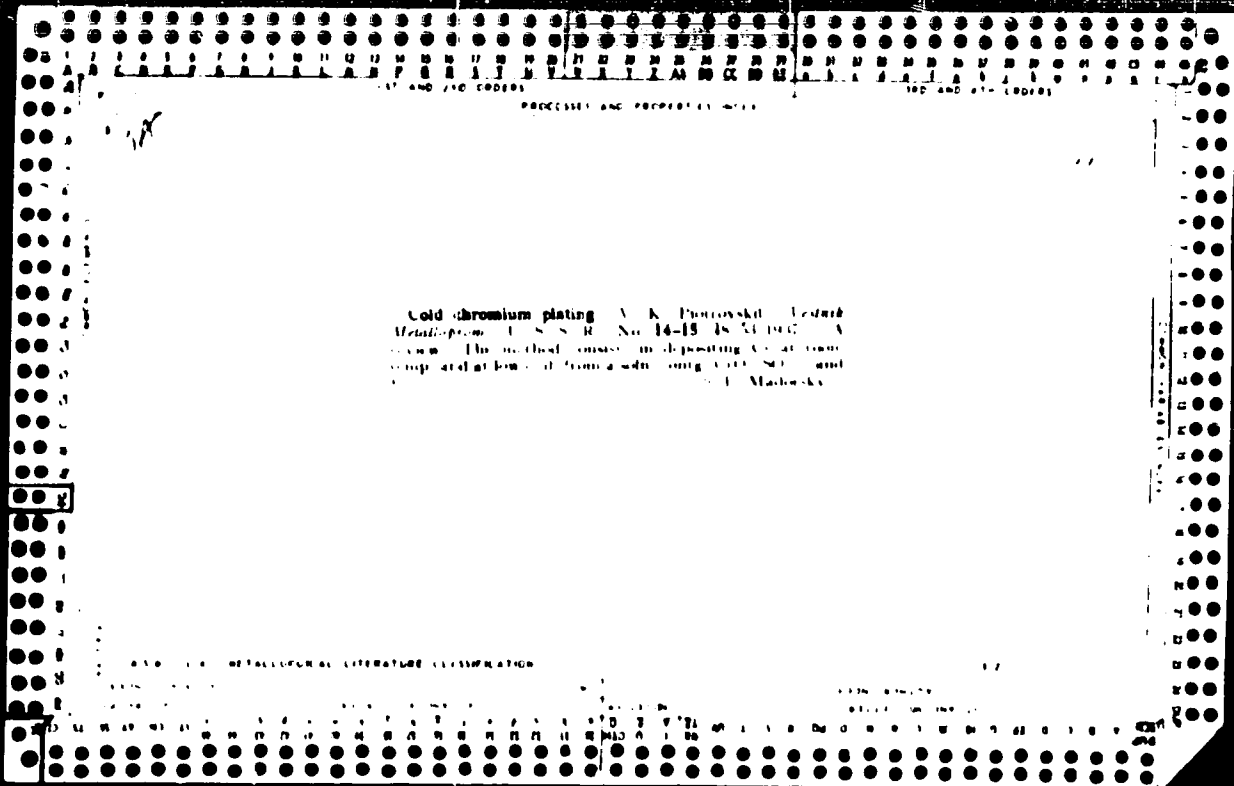
On the conditions under which to study active applications
of ultrasonics in liquids. Przem chem 39 no.4:200-205 Ap '60.

1. Zaklad Fizyki Technicznej, Instytut Chemii Ogolnej, Warszawa

PIOTROWSKI, Edmund, doc. inzh.

Savings through the use of buffer loads of electric receivers. Pt.2.
Biuletyn. Energetyka Poi 14 no.6.9-11 Je '60. (EEAI 10:1)
(Electric power)





PIOTROVSKIY, Yu.A., insh.

Operation of the Laboratory of metals and welding of the Leningrad
Power System. Energetik 8 no. 10:12-13 0 '60. (MIRA 14:1)
(Leningrad--Metallurgical laboratories)

PIOTROVSKIY, K.B.; STOTSKAYA, M.I.

Decomposition of some vinyl ethers and 1,4-dioxane by butyllithium.
Dokl. AN SSSR 135 no.4:868-870 '60. (MIRA 13:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo
kauchuka im. S.V.Lebedeva. Predstavleno akademikom A.M.Nesmeyanov.
(Ethers) (Dioxane) (Lithium)

PICTROVSKIY, V.V.

Third Conference on Mathematical Methods in Geomorphology, 1971.
AN SSSR Ser. geog. no. 1141-1411A-P 1971.

(MIRA 1971)

PIOTROWDKI, A.

La situation des chemins de fer de L'U.R.S.S. en cas de guerre. The situation of
railroads in the U.S.S.R. in case of war. (Revue economique internationale, IV,
no. 1, Oct. 1939, (31st yr.) p. 55-76)

DLC: HB3.R51

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress
Reference Department, Washington, 1952, Unclassified.

KAMIESKI, Z.; KARDYMOWICZ, O.; PIOTROWICZ, A.; ZEBRACKA-SZCZESNA, Z.

Experimental studies on protein metabolism in fertilized eggs.
Pol. biol., Warsz. 2 no.3-4:287-289 1954.

1. Institut Zootechniki w Krakowie, Dyr. prof. dr T. Marchlewski.
(EMBRYO,
chick, protein metab.)
(PROTEINS, metabolism,
chick embryo)

PIOTROWICZ, H.

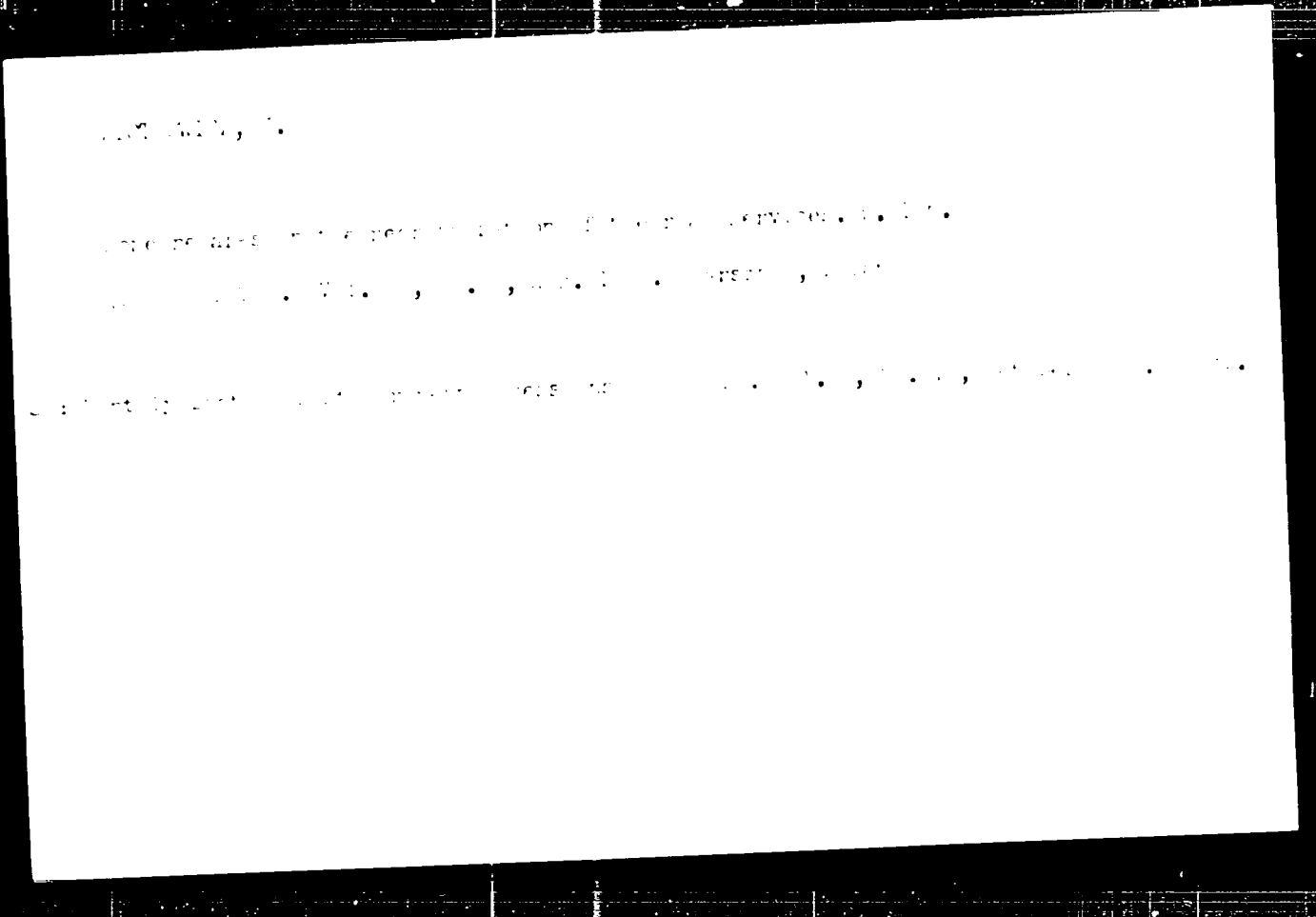
Chemical cleaning of installations in refineries and petrochemical plants. Pt. 2. Wzrost 9 no.6:134-136 Je '63.

PIOTROWICZ, Helena

Chemical installation cleaning in refineries and petrochemical plants. Wiad naft 9 nr.7/8:171-173 '63.

PIOTROWICZ, Helena

Chemical cleaning of installations in refineries and petrochemical plants. Wiad naft 11 [i.e. 9] no.3:59-62 Mr '63.



PIOTROWICZ, J.

PIOTROWICZ, J. Use of pitch mortar in road construction by the Public
Road Maintenance District in Wielun. p. 61. DOGROWNICTWO. Warszawa. Vol. 11,
No. 3, Mar. 1956

SOURCE: East European Accessions List (EEAL) LC Vol. 5, No. 6, June 1956

P. OTROWICZ, MARIA

Analysis of deposits in gas pipes. Tadeusz Pawlikowski (Chemist, Lab. Conowickie, Warsaw), Leopold Nawara, and Maria P. Otrowicz. *Gas, Weld. & Tech. Serv.* 29, 2-9 (1958).—The qual. analysis of deposits formed on gas-pipe walls consists of the following steps: Dry the sample in air after having been crushed in a mortar and pass it not of a rusty compound or distinctly naphthalene in nature. If naphthalene, dry with filter paper. Ext. 20 g. of the sample in a Soxhlet with benzene until the solvent appears colorless, and dry the residue to const. wt. at 105° (2 hrs.); evap. the ext. up to 140° and weight the residue. Again ext. the residue with diad. H₂O, and analyze the ext. for Mn, Fe, and CNS. Dry the weighted residue for 2 hrs. at 105° and treat with 1:1 HCl. Test for H₂S. Filter the ext. and det. the heavy metals in it. Test the residue for CN compds. Run the dotm. on the dried, crushed sample of the deposit. Det. Fe on 1 g. of it, which is treated with concd. HCl, evapd. 2 times, and dissolved in hot H₂O. Det. S with the Marshko method and NH₃ with the Kjeldahl method on 7 g. of the sample which has been agitated with 200 g. of water for 2 min. at room temp. Det. pH with a colorimetric method: treat 100 g. of sample with 200 g. of water (pH 7) and agitate for 1 hr. Run the test on 2 ml. of this soln. The analysis of the deposits gives an indication of the required gas purification to protect the pipes from corrosion; the most harmful impurities are H₂S, NH₃, tar, naphthalene, water, org. S compds., and NO, which acts as polymeriser. Furthermore, the best solvent can be found for a given deposit, composed of reagents best suited to dissolve its components which are mixed in amts. proportional to the deposit's compo. Henry W. Lawendel

PIOTROWICZ, M.

POL. J

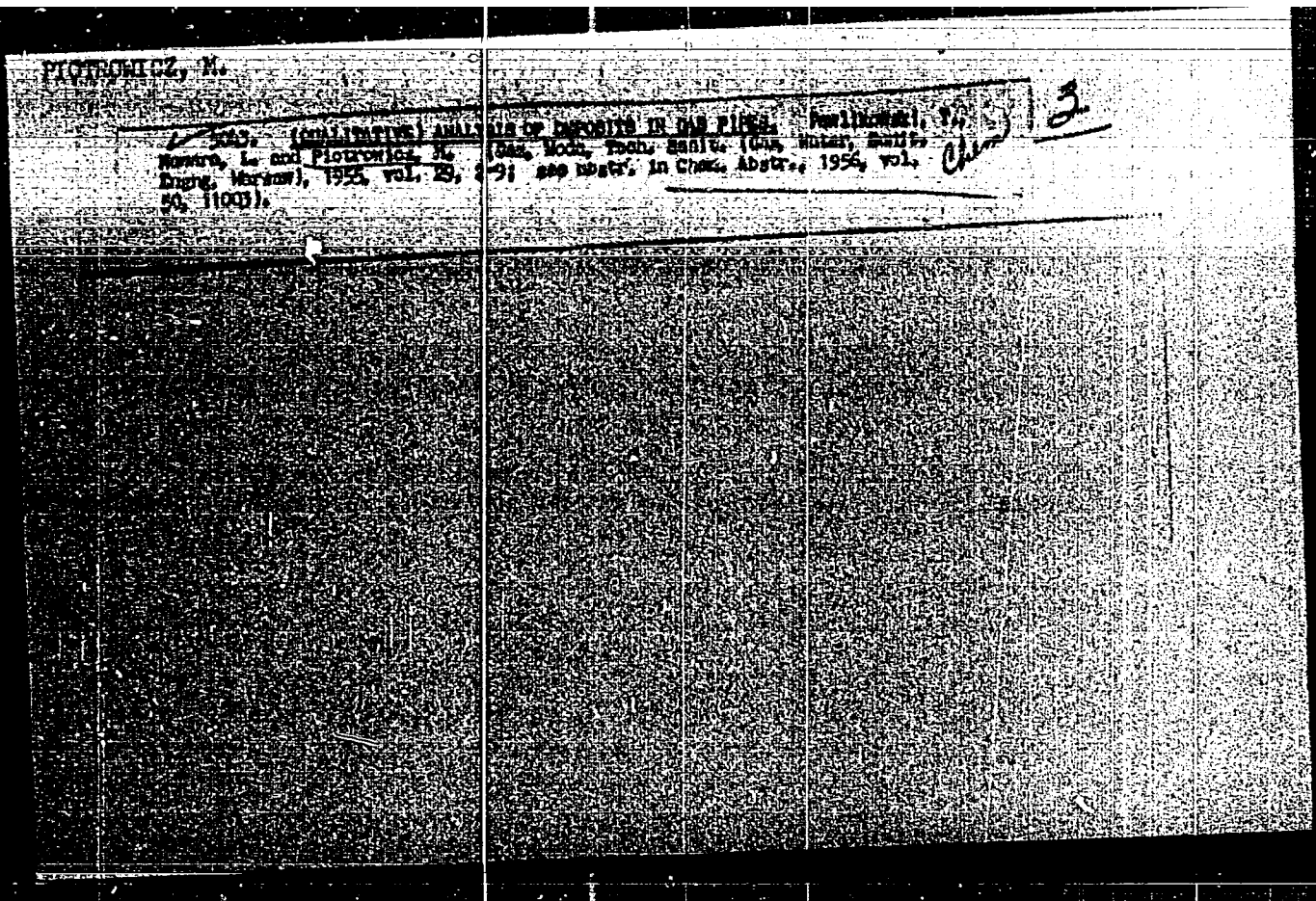
3M.501.J31 : 545.728

3758

Piotrowicz M. The Use of Cuprous Chloride in Gas Analysis and Regeneration.

„Zastosowanie chloru miedziowego w analizie gazowej i jego regeneracja” Gaz, Woda i Technika Sanitarna. No. 7, 1963, pp. 186-189, 3 figs.

Tests were carried out in order to determine the rate of carbon monoxide absorption in three cuprous chloride solutions — acid, containing HCl, ammoniacal, containing NH_3 and neutral, containing NH_4Cl . The neutral reagent reveals the highest, and the ammoniacal reagent the lowest rate of CO absorption. The acid reagent containing HCl readily absorbs carbon monoxide, but its absorptiveness is, by comparison with the neutral reagent, low. The rate of absorption decreases, but absorptiveness increases, as the HCl concentration is increased. Regeneration of the waste reagent, and the elimination from it of carbon monoxide can be carried out by strongly acidifying the reagent with concentrated hydrochloric acid and an additive of pure copper, and by repeated heating, under air exhaustion, in a water bath up to a temperature of 60°C.



Piotrowicz, M.

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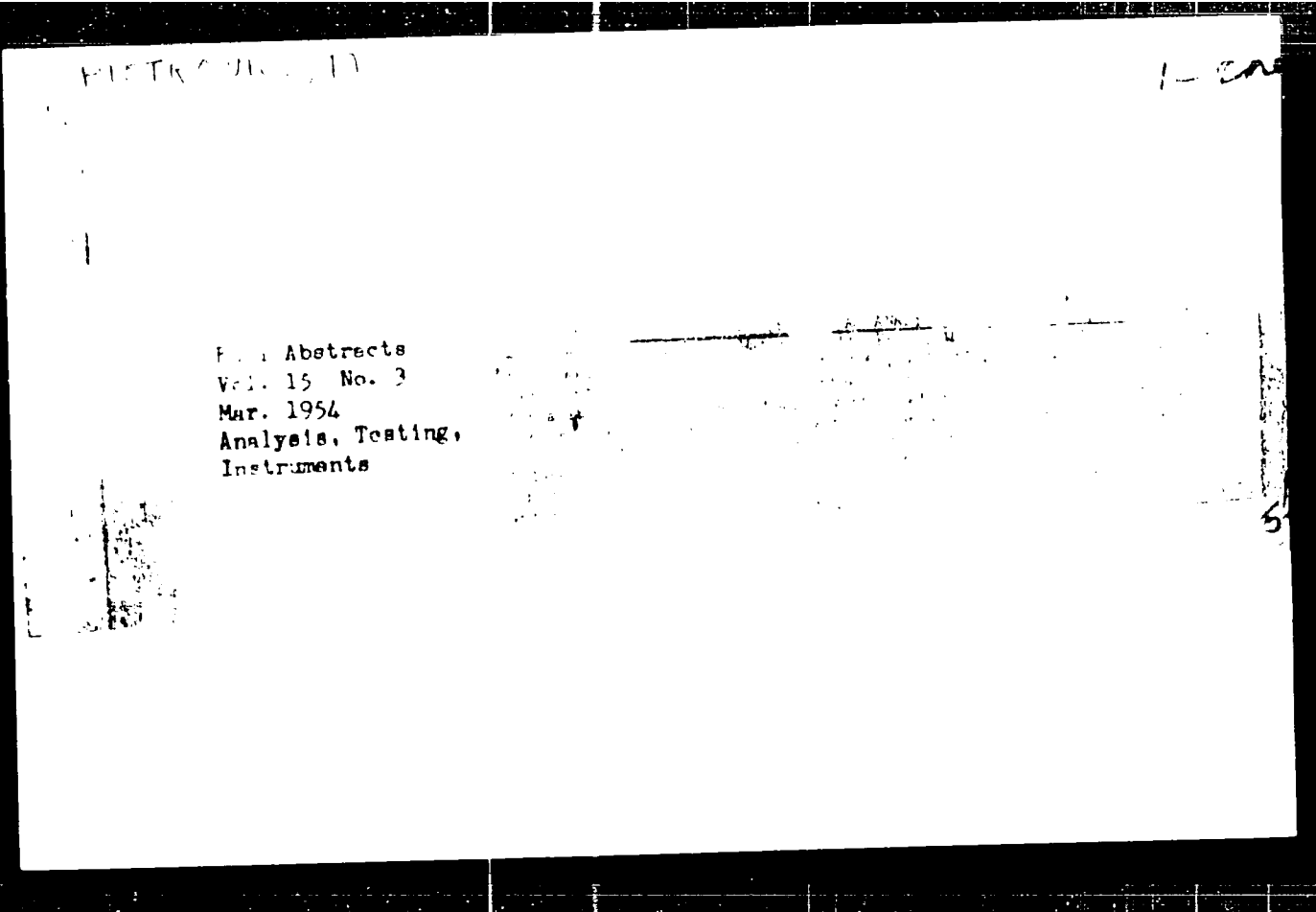
Pawlikowski T., Mirwa L., Piotrowicz M. Analysis of Sediments from Gas Mains.

„Analiza osadów powstających w rurociągach gazowych”. Gaz, Woda i Technika Sanitarna, No. 3, 1955, pp. 3-6, 8 figs. 3 tabs.

More than ten samples of sediments taken from gas mains of various Polish towns were chemically analysed. The sediments were dried in the open air and extracted with benzene. The benzene insoluble portion was extracted with water, and the residue dissolved in HCl. The amount of iron contained in the sediment indicates the degree and duration of corrosion. Sulphur is with time deposited in gas mains in layers which enable determination of the concentration of gaseous sulphur compounds responsible for the deposits. A pH of less than 7 is particularly favourable to corrosion. To diminish corrosion of the gas mains, particular care should be taken to remove from the gas H₂S, NH₃, tar, naphthalene, steam and NO.

Chem

3



PICTROWICZ, E.

"Testing the thermal efficiency of a new kitchen," *Prace i Technika* (Warszawa), Vol 28, No 4, Sept. 1961, p. 158.

SC: Eastern European Accessions List, Vol 3, No 1, Nov 1964, 117.

1107 Rowicz

M.

CUPROUS CHLORIDE FOR GAS ANALYSIS. Piotrowicz, M. (Gas, Water, Sanit. Engng., Warsaw), July 1953, vol. 27, 185. abstr. in Gas World, 31 Oct. 1953, vol. 138, 1110).
 The author has made a study of the cuprous chloride solution used in nearly all gas analysis for absorbing carbon monoxide. Various kinds of solution were tried, and the best results were obtained with either acid or neutral solution. The aim of the investigation was the prevention of wastage of copper salts in Poland. The author proposes a method of regenerating the liquid by the addition of concentrated hydrochloric acid and copper wire and heating on a water bath at 75°C for four hours.

W.D.

PIOTRONICZ, M.; PABLIKOWSKI, T.; ANNA, L.

Analysis of sediment in gas pipes. P. 2, GAZ, WODA I TECHNIKA GAZOWA,
Vol. 29, No. 1, Jan. 1986, Warszawa, Poland.

See: Monthly List of East European accessions, (unpubl.), 1986, Vol. 4, No. 1,
May 1986, encl.

PIOTROWICZ, W.

"Applying Cuprous Chloride in Gas Analysis and Its Regeneration." p. 188 (SAZ, CIA I
TECHNIKA SANITARNA, Vol. 2, No. 7, July 1953) Warszawa

SO: Monthly List of East European Acquisitions, Library of Congress, Vol. 2, No. 10,
October 1953. Unclassified.

Piotrowicz, Maria

regeneration. Maria Piotrowicz, *Chem. Zvest.* 37, 188-190 (1933).—The CO-binding properties were compared of acid (HCl), alk. (NH₃), and neutral CuCl₂ solns. From the diagrams obtained, vol. of the bonded CO wt. time, it results that the neutral soln. (1 g. CuCl₂, 2.12 g. NH₄Cl, 15 ml. H₂O) has the highest absorption power. However, the ammoniacal soln. (1 g. CuCl₂, 2 ml. concd. NH₄OH, 15 ml. H₂O) is the best because it gives the most stable CO complex. The exhausted acid or neutral CuCl₂ solns. can be regenerated by heating them in a flask immersed in a water bath, after strong acidification with concd. H₂SO₄ and addn. of pure metallic Cu. The soln. is heated slowly up to 80° over a period of 3 hrs. under a hood. The ammoniacal CuCl₂ soln. is regenerated by first evap. almost completely, dissolving the residue in concd. HCl with an addn. of metallic Cu, and heating slowly to 80°. After a few days of rest the soln. is ready for use. Henry W. Lawver.]

DOMANSKI, Jozef, PIOTROWICZ, Wladyslaw

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341010003-8"

34 no.4:629-636 64.

Piotrowicz, W.

Original manuscript submitted to *Prace Geologiczne i Mineralogiczne*, Warszawa, No. 6, 1953, pp. 138-143, 7 figs, 1 tab.
The author, in addition to quoting general characteristics of these materials, draws attention to the freedom in world literature concerning the terminology for rocks, and raises the problem of classification of raw ceramic building materials. The Mineralogy and Petrography Faculty of the Lodz Polytechnic is investigating the possibility of curtailing, in service laboratories, the number of cumbersome and relatively expensive chemical analyses of raw ceramic building materials, and of introducing instead other methods more simple, less time-absorbing and yet sufficiently accurate.

PIOTROWICZ-KASPRZAKOWA, I.

Angiography in peripheral vascular diseases. Polskie arch. med. wewn.
28 no.5:727-729 1958.

1. Z III Kliniki Chirurgicznej A.M. w Lodzi. Kierownik: prof. dr
W. Tomaszewicz.

(VASCULAR DISEASES, PERIPHERAL, physiol.
(angiography, diag. & ther. value (Pol))

(ANGIOGRAPHY,
extremities, in peripheral vasc. dis. (Pol))

PIOTROWICZ-KASPRZAKOWA, Krystyna; SMIALOWSKA-KEDZIOWA, Krystyna.

Evaluation of the results following adrenalectomy in the treatment of obliterating diseases of peripheral vessels. Polski przegl. chir. 35 no.9:985-988 '63.

1. Z III Kliniki Chirurgicznej AM w Lodzi (kierownik prof. dr. W. Tomaszewicz, obecnie: doc. dr. A. Aliczka) oraz z Poradni Chorob Naczyn Obwodowych przy Wojewodzkiej Przychodni Specjalistycznej ila m. Lodzi.

*

SMIALOWSKA-KEDZIORA, Krystyna; PIOTROWICZ-KASPRZAKOWA, Krystyna; KEDZIA, Tytus

Conservative therapy of peripheral vascular diseases based on observations of the outpatient clinic of peripheral vascular diseases at the 3rd Surgical Clinic, Medical Academy in Lodz. *Polskie arch.med. wewn.* 28 no.5:779-782 1958.

1. Z III Kliniki Chirurgicznej A.M. w Lodzi Kierownik: prof. dr med W. Tomaszewicz. Adres autora: Lodz, III Klinika Chirurgiczna A.M., ul. Kopcinskiego 22.

(VASCULAR DISEASES, PERIPHERAL, ther. drug ther., hosp. report (Pol))

PIOTRONICZ-KASPRZAKOWA, Krystyna; ZAWADZKI, Tadeusz

Adrenalectomy in peripheral vascular diseases. Polskie arch
med. wewn. 28 no.5:826-829 1958.

1. Z III Kliniki Chirurgicznej A.M. w Łodzi. Kierownik: prof. dr
med. W. Tomaszewicz. Adres autora: Łódź, ul. Kilinskiego 40 m.4)
(VASCULAR DISEASES, PERIPHERAL, surg.
adrenalectomy, statist. (Pol))
(ADRENALECTOMY, in various dis.
peripheral vasc. dis., statist (Pol))

PIOTROWICZ-KASPRZAKOWA, Krystyna

Membranectomy as supplementary procedure in surgery of peripheral vascular diseases. Polskie arch. wewn. 28 no.5:829-830 1958.

1. Z III Kliniki Chirurgicznej A.M. w Łodzi Kierownik prof. dr med W. Tomaszewicz

(VASCULAR DISEASES, PERIPHERAL, surgery,

membranectomy of adductor canal with & without sympathectomy (Pol))

(SYMPATHECTOMY, in var. dis.

peripheral vasc. dis., with membranectomy of adductor canal (Pol))

SMIALOWSKA-KEDZIOWA, Krystyna; PIOTROWICZ-KASPRZAKOWA, Krystyna

Results of the treatment of obliterative peripheral diseases
by means of excision of the sympathetic ganglia and adrenalectomy.
Polski przegl.chir. 31 no.12:1323-1335 D '59.

1. Z III Kliniki Chirurgicznej A. M. w Łodzi Kierownik: prof.
dr W. Tomaszewicz.

(VASCULAR DISEASES PERIPHERAL surg)
(ADRENALECTOMY)
(SYMPATHECTOMY)

PIOTROWSKA, A.

The inhibitive effect of gases on the oxidizing or reducing effects of ultrasonic energy. P. Doman, *Proc. Politi. Conf. Ultrasonics, 2nd*, 1956, 17-19 (Pub. 1957) (in English).

The potential of the Pt electrode in 0.1N K₄Fe(CN)₆ was increased and in K₄Fe(CN)₆ decreased, by 10-25 mv. after 6 min. irradiation by an 800-kc. 15-w./sq. cm. generator. The effect is attributed to α -ionization. Intermolecular forces and acoustic properties of liquids. Franciszek Kuczyra (Wyższa Szkoła Rolna, Olsztyn). *Ibid.* 85-8

(in English).—By substitution of a Lennard-Jones (6-n) intermol. potential in the Kudriavtsev equation for the velocity of sound propagation, an equation was obtained by which the exponent n was calculated from exptl. data and found between 12 and 18 for 30 liquids (cf. C.A. 52, 15004a). Hence the relative thermal coeff., α , was related to that of thermal expansion, β , by the equation $\alpha = (n/6)\beta$, which was verified, again with

$14 \leq n \leq 18$. Determination of electric, piezo electric, and elastic constants of barium titanate ceramics. Wincenty Pajewski (Polska Akad. Nauk, Warsaw). *Ibid.* 71-2

(in English).—Math. Compliance, dielec. const. and piezoelec. tensors are theoretically considered and relations between various matrix elements are derived. Producing suspensions by means of ultrasonics. A. Piotrowska, M. Moroka, and J. Ziencuk (Inst. Chem., Warsaw). *Ibid.* 77-82 (in English).

A few expts. on carbon black-water and MnCO₃-rape oil systems are described. Luminescence and oxidizing action of ultrasonic waves in water in the presence of rare gases. R. O. Prudhomme (Inst. Pasteur, Paris). *Ibid.* 83-6 (in French).

WATER, degassed and acid. with He, Ne, Kr, Xe, air, O, or N, was exposed for 10 min. to the action of 960-kc. ultrasonic waves, (6 w./sq. cm.). Luminescence and formation of H₂O₂ were observed. α plays an essential role. Effect of ultrasonic waves on

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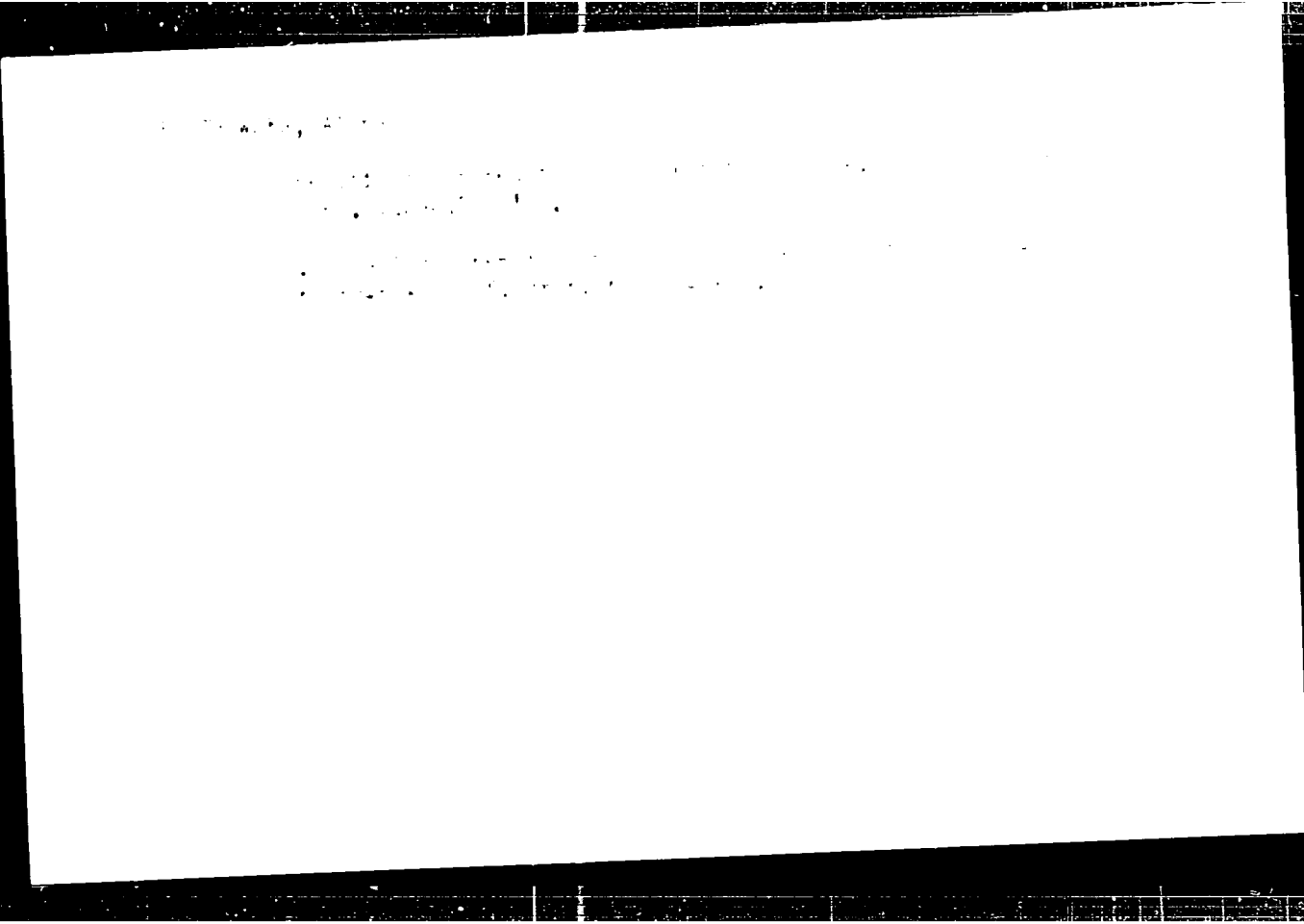
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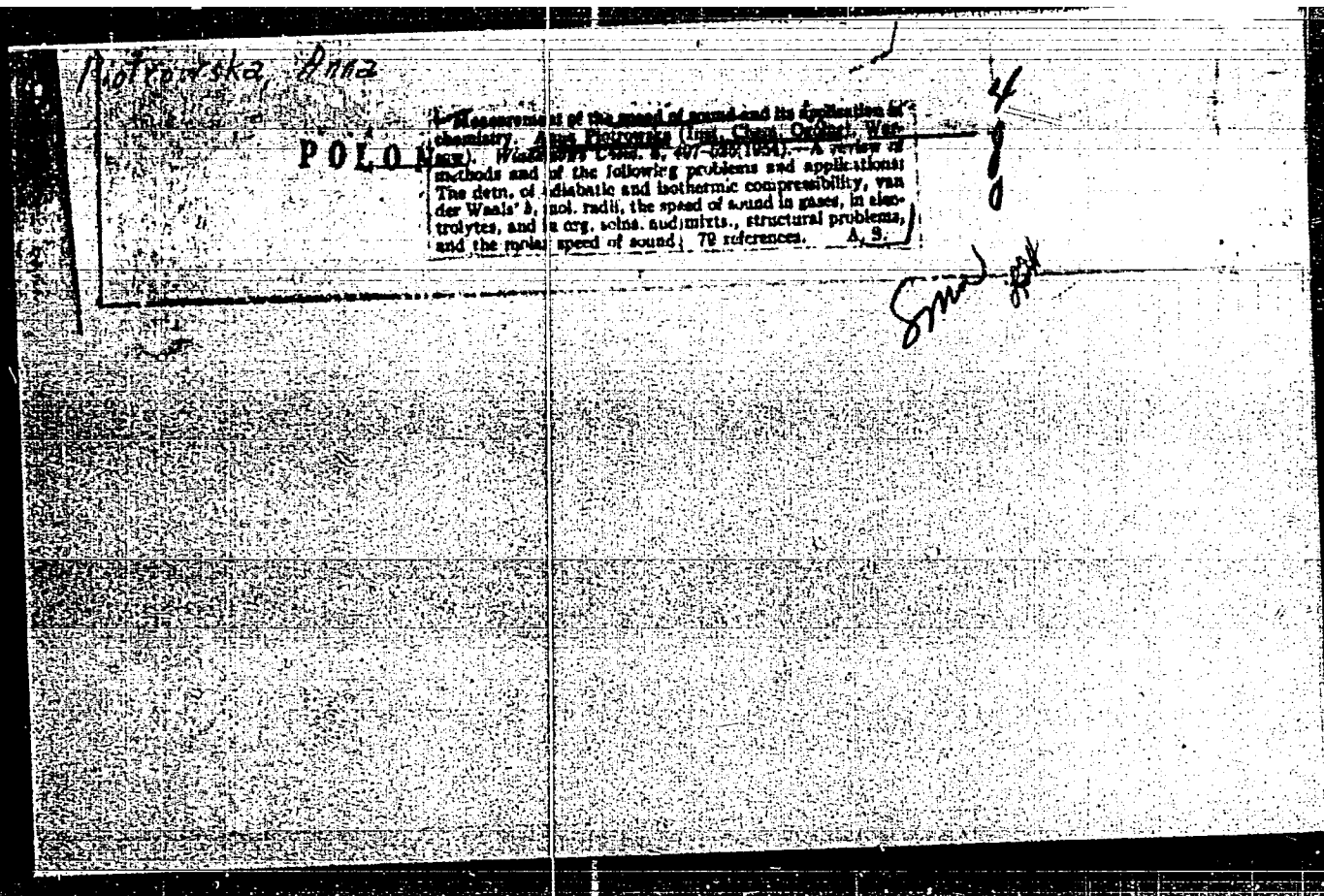
PIOTROWSKA, Alicja

Removal of emboli from the aortic bifurcation. Pelski przegl.
chir. 32 no.10:975-983 '60.

1. Z I Kliniki Chirurgicznej A.M. w Łodzi Kierownik: prof. dr
M. Stefanowski.

(EMBOLISM surg) (AORTA dis)





POLON

Measurement of the speed of sound and its application in chemistry. Anna Piotrowska (1891, Choszcz, Poland; Warsaw, Poland). Warszawa: Państw. Wyd. Nauk., 1954. A series of methods and of the following problems and applications: The detn. of adiabatic and isothermic compressibility, van der Waals' b, mol. radii, the speed of sound in gases, in electrolytes, and in cry. solns. and mixts., structural problems, and the speed of sound; 70 references. A. S.

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POLJID/Acoustics - Ultrasonics

J-4

Obs Jour : Ref Zhur - Fizika, No 4, 1959, No 6586

Author : Piotrowska A., Gorska M., Zieniuk J.
Inst : Institute of General Chemistry, Poland
Title : Studies on Production of Suspensions by Means of Ultrasonic
[sic!]

Orig Pub : Proc. II conf. ultrason., 1956, Warszawa, PWN, 1957, 77-82

Abstract : The authors have investigated experimentally the dependence of the concentration of the suspension on the intensity of ultrasound and on the exposure time for various substances, and also the dependence of the time of total dispersion of the substance on the intensity of the ultrasound. Corresponding graphs are given. It is concluded that the dispersion of the substance is effected by the following factors: intensity, frequency, and acting time of the ultrasound, character of the sound field, temperature at which the process occurs, the form of the liquid in which the dispersion of the substance takes place (density, viscosity, surface tension etc.),

Card : 1/2

PIOTROWSKA, Alina

A new color reaction for chlortetracycline and oxytetracycline.
Acta Pol. pharm. 21 no.1:29-32 '64.

1. Z Zakładu Chemii Farmaceutycznej Akademii Medycznej w Łodzi
(Kierownik: prof. dr K. Kalinowski).

PIOTROWSKA, A.

Measuring the speed of sound and its application. p. 497.
WIADOMOSCI CHEMICZNE. Wroclaw. Vol. 8, no. 10, Oct. 1954.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956

PIETROVSKA, A.

"Why Ultrasound Does Not Find Water Industrial Applications." P. 4
(PROBLEMY ENERGETIKI, Vol. 11, No. 2, Feb. 1977, Warszawa, Poland)

SO: Monthly List of East European Associations, (EMEA), LC, Vol. 4,
No. 1, Jan. 1977 Uncl.

PIOTROWSKA, Alina

Bromatometric determination of chlortetracycline. Acta
pol. pharm. 20 no.5:379-382 '63

1. Z Zakladu Chemii Farmaceutycznej Akademii Medycznej
w Lodzi; kierownik zakladu: prof.dr.K.Kalinowski.

★

KALINOWSKI, Kazimierz, PIOTROWSKA, Anna

Bromocoulometric microdetermination of chlortetracycline hydrochloride and oxytetracycline hydrochloride. Acta pol. pharm. 20 no. 2, 199-204, 1971.

1. Z Zakładu Chemii Farmaceutycznej Akademii Medycznej w Łodzi; Kierownik: prof. dr K. Kalinowski

(CHLORTETRACYCLINE (OXYTETRACYCLINE)
CHEMISTRY, PHARMACEUTICAL (MICROCHEMISTRY)

POLAND/Acoustics

Abs Jour: Referat Zhai-Fizikal. 1977, No. 1, 1977.

Author : Podravska, Anna
Inst : Warsaw
Title : Ultrasonic Cleaning

Orig Pub: Przegl. Fizykal., 1977, 10, 1, 1977, 10-11.

Abstract: After giving brief information concerning the nature of ultrasound, its action on matter, and on methods of obtaining ultrasonic oscillations, descriptions are given of three commercial setups for ultrasonic cleaning. The setup by the General Electric Company has a bath 10 cm in diameter and 2 cm deep, at the bottom of which is located a quartz radiator; a vessel with a bottom made of thin (0.1 mm) metal foil is lowered into the bath and the parts to be cleaned are placed in this vessel. The setup of the American firm Detrex has four radiators made of barium titanate, fed by a two kilowatt generator. The dimensions of each radiator is 15 x 5 cm; the barium titanate plates are placed directly in the liquid (trichlorethylene)

Card : 1/2

POLAND/Acoustics.

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Abs Jour: Referat: Zbur-Fizikal. 1977. No. 4. 102-103

in which the cleaning takes place. The parts to be cleaned are moved during the cleaning process with the aid of a conveyor belt. A setup with a transporter was made by the General Electric Company to clean electric shaver heads. It has a quartz radiator 5 cm in diameter, operating at 70 kV. It takes approximately ten seconds to clean one head. Radiography is utilized.

Card : 2/2

PIOTROWSKA, B., mgr inż.

New provisions concerning analytical weights. Pomiary
O no.12:645 D '63.

1. Laboratorium Pomiarow Masy, Główny Urząd Miar, Warszawa.

PIOTROWSKA, B., mgr ins.

Investigations on the influence of temperature upon the indices of analytical balance. Pomiary 7 no.8:346 Ag '61.

1. Laboratorium Pomiarow Masy, Glowny Urzad Miar, Warszawa.

PIOTROWSKA, B., mgr ins.

Hydrostatic scales of the Westphal-Mohr type. Pomiary
9 no.2:96 P '63.

1. Laboratorium Pomiarow Masy, Glowny Urzad Miar, Warszawa.

PIOTROWSKA, B., mgr. inż.

A multi-beam torsion scale. Pomiar 8 no.5:254-255 My '62.

1. Laboratorium Pomiarow Masy, Warszawa.

GROCHMAL, Stanislaw; PIOTROWSKA, Barbara

Effect of organized exercise on the physical condition of children
in preventoria. Gruzlica 28 no.6:463-470 Je '60.

1. Z Zespolu Naukowo-Badawczego Instytutu Gruzlicy w Krakowie
Kierownik: prof. dr St.Hornung
(TUBERCULOSIS prev & control)
(EXERCISE THERAPY)

JERKASZCZYK, Henryk; [unclear]

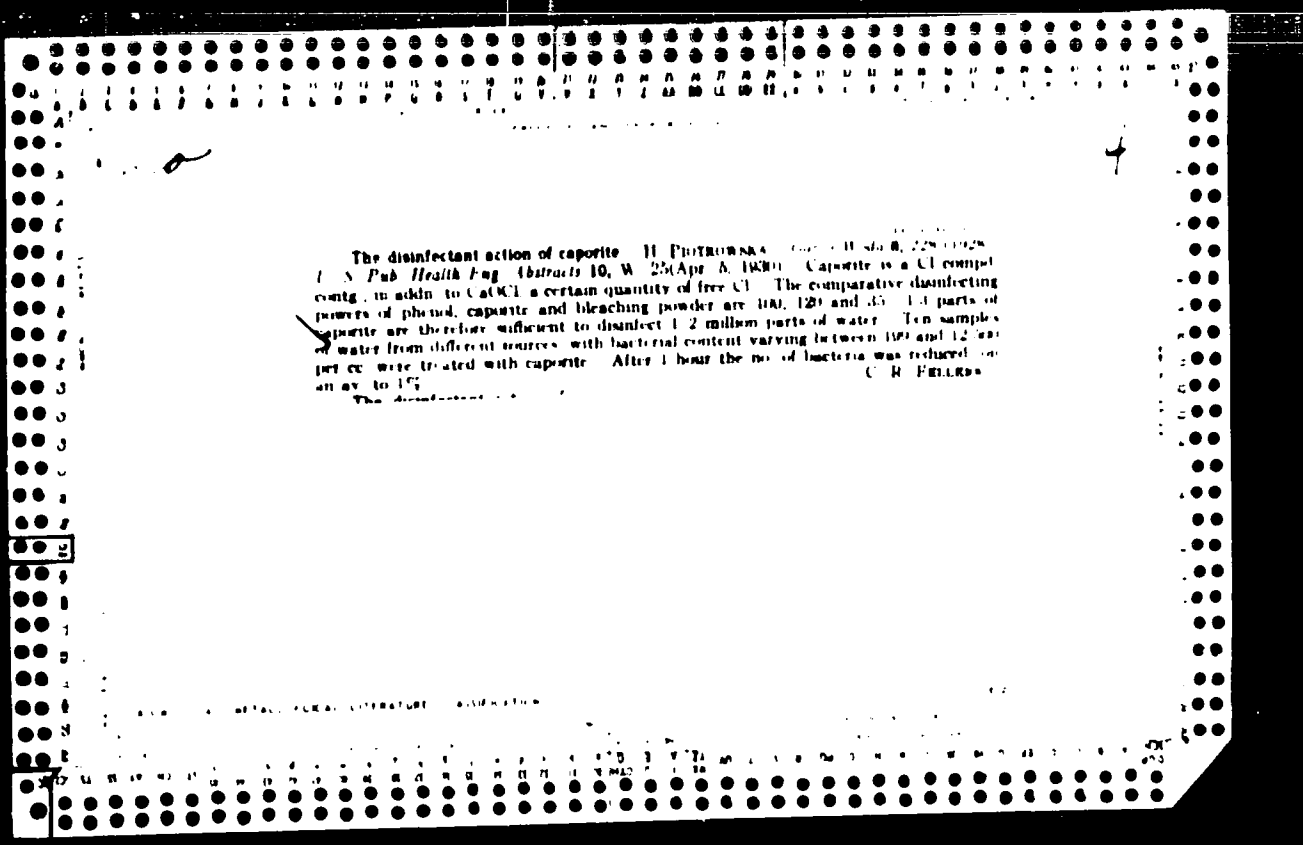
studies on the effect of [unclear] on the fixing
of oil stains on [unclear] fibers and wool.
Przeegl wlokn 17 no. 11 1969 11 1969.

KOZIOLOWA, Halina; PIOTROWSKA, Danuta

Liver function tests and protein fractions in the blood serum
in workers exposed to ultrasonics. Pol. tyg. lek. 18 no.43:
1597-1599 21 0'63.

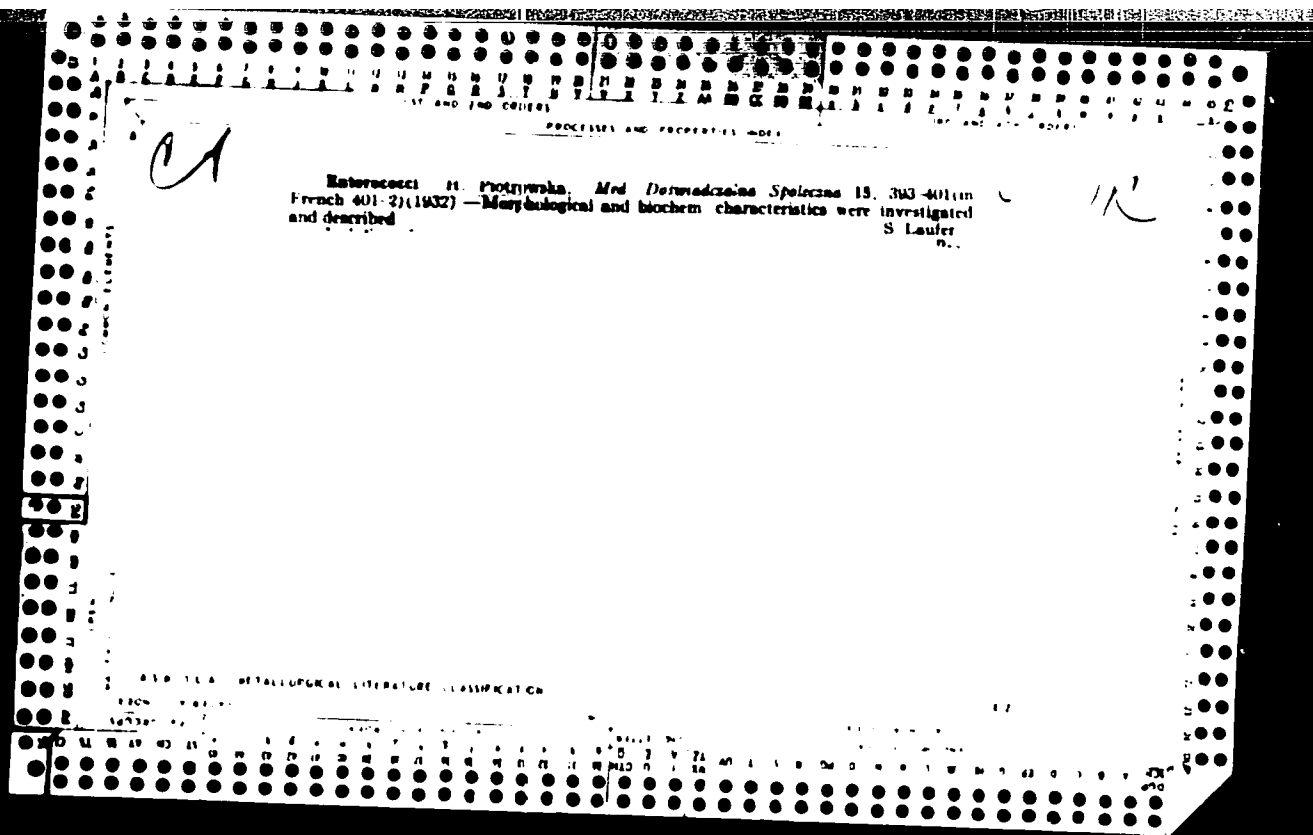
1. Z I Kliniki Chorob Wewnętrznych AM w Warszawieskierow.ikt
prof.dr.med. Andrzej Biernacki [deceased].

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The disinfectant action of caporite. H. PIOTROWSKA. *Ann. Inst. Hyg. Warszawa* 228 (1928).
U.S. Pub. Health Rep. Abstracts 10, W 25 (Apr. 5, 1930). Caporite is a Ca compound
contg. in addn. to Ca(OCl) a certain quantity of free Cl. The comparative disinfecting
powers of phenol, caporite and bleaching powder are 100, 120 and 35. 1.3 parts of
caporite are therefore sufficient to disinfect 1.2 million parts of water. Ten samples
of water from different sources with bacterial content varying between 100 and 12,000
per cc. were treated with caporite. After 1 hour the no. of bacteria was reduced on
an av. to 15%. C. R. FRIEDS.

Anaerobic bacteria in spring water. Z. BONDANOWICZ-WNA AND H. PIETRUSKA
Med. Doświadczalna Spoleczna 13, 379-62(1931) Forty-two of 100
spring waters from the territory of Warsaw which have been tested by the method
of McMillan and Wilson, contain black colonies. Of 28 of these, 18 colonies are anaerobes
and 10 colonies of the latter were identified as *B. perfringens* (Welch Frankel). In most
cases the anaerobic bacteria were found in contaminated waters. Because of the
pathogenic properties of *B. perfringens*, its occurrence in water, which indicates old
contamination, should be taken into consideration in suspicious cases in which *B. coli*
tests give neg. results. S. LAUFFER



PIOTROWSKA, H.

6

These properties of the nitro-1,2-propanol derived from
 nitroethane or 1-nitroethane. *J. Polym. Sci. Polym. Chem. Ed.*
 1958, 16, 177-82 (1958) (in Eng-
 lish); *C.A.* 52, 1778 (1958). FeNO_2 (C.A. 51, 173)
 FeNO_2 (Kochi's Chem. 24, 180 (1925)), and MeNO_2 (C.A.
 51, 798) react with CH_2O and NH_3 to form several ring
 compounds. NH_3 formation must be due to a reactive N-H
 group. But EtNO_2 or iso-BuNO_2 (1 mole) heated several
 hrs. on the steam bath with 3 mols CH_2O and 1 mol NH_3
 dried and dissolved in 10% HCl gave only 5-nitro-2-propyl-
 tetrahydro-1,2-oxazine-*N*(1) (I), m. 188-9° (lit., m.
 188-9°), or its *S*-*iso*-P isomer-*N*(2) (II), m. 188° (lit.,
 m. 187-8°), and $\text{HOCH}_2\text{C}(\text{NO}_2)\text{CH}_2\text{NH}_2$ (III),
 188-79° (HCl salt) (1, *N*-dimethyl deriv., m. 101°),
 or its *iso*-P isomer (IV), m. 188-7° (HCl salt) (lit., m.
 188-89°). All attempts to combine further I and II with
 CH_2O failed, indicating low activity of the N-H group. I
 and II were also prepd. by heating 2-nitro-2-propyl-1,2-
 propanediol or the *iso*-P isomer with 1 mol CH_2O and 1
 mol NH_3 . I and II gave oily nitroso deriva. which,
 warmed with HCl gave I and II. The free bases I and II
 gave the corresponding methiodides, m. 190-200°, and 301-
 5°, resp. I and II boiled several hrs. with concd. HCl gave
 III and IV, resp. The free bases III and IV with CH_2O
 gave the bases I and II, resp. The bacteriostatic concn. of
 I against various *Mycobacteris* is 62.5-125 μg . % (cf. *C.A.*
 57, 1017). Janet H. Austin

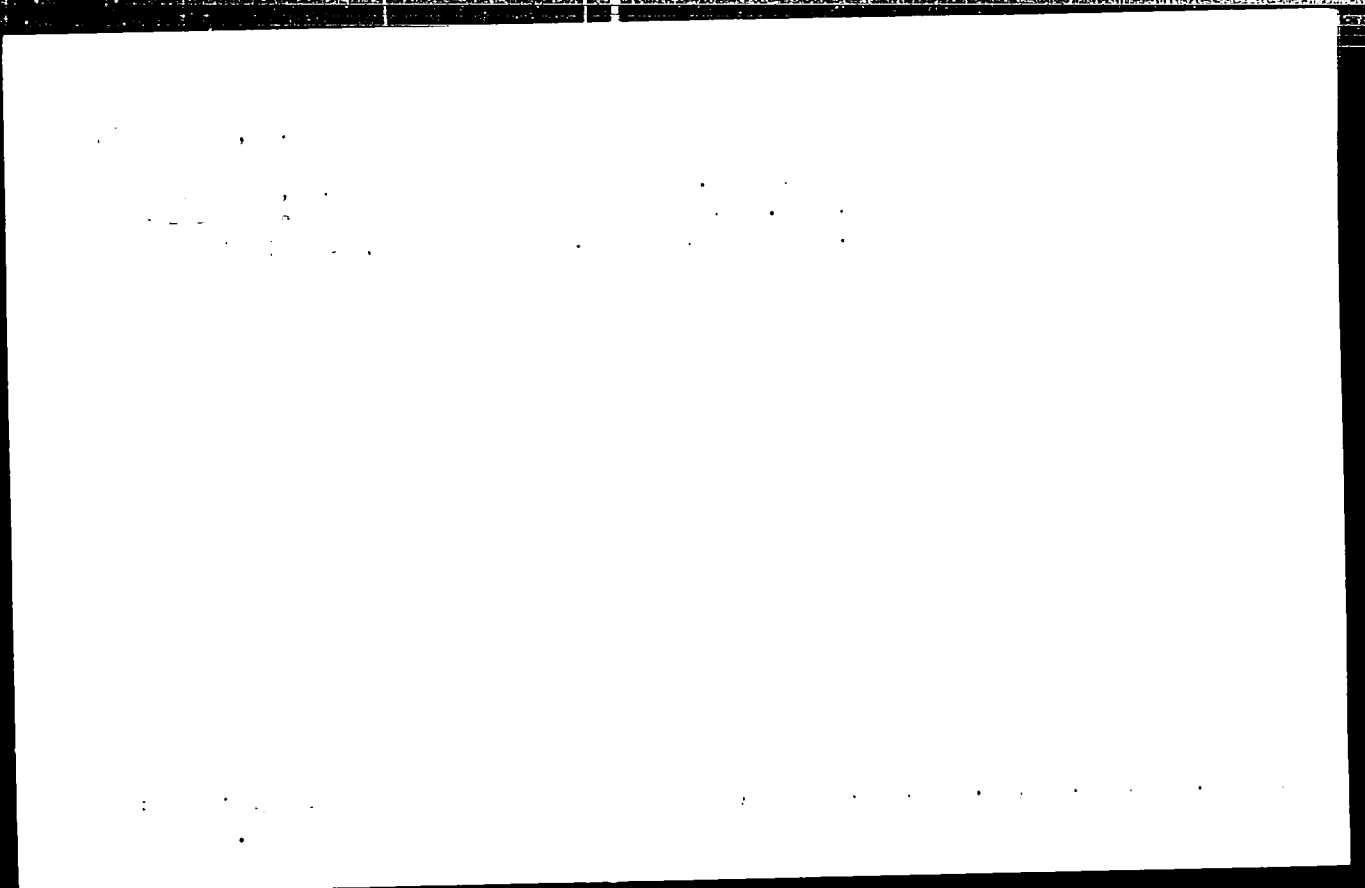
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ETROWSKA, B.

Obserwacja ...

PIOTROWSKA, H.

Neutrino processes in the stars. Postępy astronomii 11 no. 2
181-184 '63.

COUNTRY :
 CATEGORY :
 REF. JOUR. :
 AUTHOR :
 TITLE :
 ORIG. PUB. :
 ABSTRACT :
 CARD: 1/3

CARD: 1/3

REF. JOUR. :

AUTHOR :

TITLE :

ORIG. PUB. :

ABSTRACT :

CARD: 1/3

FIGURE 1A, 1A

"A reserve of Phragmites Neumann in the (the forest) of Lower Silesia near
Wieliczka.

p. 10 (Cienowy Brzyzowisko Wieliczka Vol. 1., no. 1, Warszawa, 1918, related.

Monthly Index of East European Accessions (MIA) LC, Vol. 8, No. 1, Jan. 19.

PIOTROWSKA, H.

SCIENCE

PERIODICAL: ROCZNIKI CHEMII, Vol. 31, No.2, 1957

PIOTROWSKA, H. Aliphatic nitro compounds. XXIX. The formation of derivatives of 5-nitrotetrahydro-1, 3-oxazine substituted in position 2. p. 553

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

Distr: 4E20(j)/4E3d

Stereochemistry of some 1,5-diazacyclooctane derivatives. K. Kollas, H. Plotrowka, and T. Urbanski (Polish Acad. Sci., Warsaw) *J. Chem. Soc.* 1958, 2310-22; *cf. C.A.* 51, 14718s. — $\text{EtC}(\text{CH}_2\text{OH})(\text{NO}_2)\text{CH}_2\text{OH}$ (15 g.) and 34 ml. 25% aq. NH_3 kept 1 hr. on the steam bath, the solid sepl., and dissolved in alc. HCl gave the less-sol. *trans*-3,7-diethyl-3,7-dinitro-1,5-diazacyclooctane- HCl , m. 172-3° (decompn) and 0.07 g. of the more-sol. *cis* hydrochloride (I), m. 169-71° (decompn.). I in H_2O neutralized with aq. NaOH gave the base, m. 94-5°. I (0.2 g.) in aq. HCl and NaNO_2 gave 0.1 g. *N*-nitroso compd., m. 139-40° (EtOH). The stereochemistry of these compounds is discussed.

Harry L. Yale

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POLAND/Organic Chemistry. Synthetic Organic Chemistry G

Abs Jour: Ref Zhur - Khim., No. 4, 1959, 11879

Author : Jones J., Kolinski R., Piotrowska H., Urbanski T.

Inst : None.

Title : The Aliphatic Nitro Compounds. XXVIII. Derivatives of 1,5-diazobicyclo-[3,3,3]-undecane from 1-nitropropane, Formaldehyde and Ammonia.

Orig Pub: Roczn. chem., 1957, 31, No. 1, 101-108

Abstract: 2-nitro-2-ethylpropanediol-1,3 (I), in the presence of an excess aqueous solution of NH₃ at a temperature of 25^o, produces 3,7,10-trinitro-3,7,10-triethyl-1,5-diazobicyclo-[3,3,3]-undecane (II) and 5-nitro-5-ethylhexahydro-pyrimidine. The hydrolysis of II by alcoholic HCl leads to 3,7-dinitro-3,7-diethyldiazocyclo-

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POLAND/Organic Chemistry. Synthetic Organic Chemistry G

Abs Jour: Ref Zhur - Khim., No. 4, 1959, 11879

octane, $C_2H_5C(NO_2)CH_2NHCH_2C(NO_2)(C_2H_5)CH_2NHCH_2$
(III), which on heating with I reproduces II.
The excess of NH_3 at 100° is transferred from
I into III, 0.2 mole of I and 1 mole of 25%
 NH_3 are left for 3 days at about 20° . The tar
is separated, dissolved in alcohol and left for
several weeks - II is produced (yield, 10-30%;
melting point, $107-108^\circ$); the mononitroso deri-
vative's melting point is $101-103^\circ$ (from alco-
hol). The filtrate, which is treated with
alcoholic HCl, is separated (0° , several days)
from some hydrochlorides of III (melting point,
 $167-168^\circ$); the basic material (melting point,
 $63-64^\circ$); the mono-N-n-toluolsulphonyl derivative
melting point, $138-140^\circ$ (from alcohol). The
hydrochloride of II (melting point, $143-145^\circ$ -
decomp.) is hydrolyzed by water to I. The con-
densation of I with 25% NH_3 at about 100° leads

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POLAND/Organic Chemistry. Synthetic Organic Chemistry G

Abs Jour: Ref Zhur - Khim., No. 4, 1959, 11880

Author : Urbanski T., Piotrowska H.

Inst : Not given.

Title : Aliphatic Nitro Compounds. XXIX. Obtaining Two Interchangeable Derivatives of 5-nitrotetrahydrooxazine-1,3.

Orig Pub: Roczn. chem., 1957, 31, No. 2, 553-558

Abstract: At a concentration of 2-nitro-2-oxymethyl-pentylamine (I) with acetic, propionic, n-butyric, non-interchangeable benzoic, o-chloro-, o- and p-nitrobenzoic aldehydes, there are obtained two interchangeable 5-nitrotetrahydrooxazine-1,3, $\text{RCHOCH}_2\text{C}(\text{NO}_2)(\text{n-C}_3\text{H}_7)\text{CH}_2\text{NH}$ (II). The reactions should be conducted in absolute alcohol or absolute C_6H_6 . Aromatic

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POLAND/Organic Chemistry. Synthetic Organic Chemistry G

Abs Jour: Ref Zhur - Khim., No. 4, 1959, 11880

aldehydes, in distinction from aliphatic, react easily with a yield of 60-90%. All II form N-nitroso derivatives. The hydrochlorides of II, on heating with 1.5% HCl in alcohol, hydrolyze with the formation of I. The following II were obtained (R, yield in percentages, melting point in centigrade degrees of the basic material, hydrochloride, picrate and N-nitroso derivatives: CH₃, 5, --, 178-180 (decomp.), 145-146, --; C₂H₅ (III), 5, --, 182-184 (decomp.), 137-138, --; n-C₃H₇, 5, --, 174-176, 139-140, --; C₆H₅, 60, --, 180-182 (decomp.), --, --; n-C₁C₆H₄, 75, 56-57, 170-172, --, 71-72; o-O₂NC₆H₄, 90, 101-102, 174-176 (decomp.) --, 109-110; n-HOC₆H₄, 65, 111-112, 184-186 (decomp.), --, --. Method A. 3 g of CH₃CH₂CHO and a small quantity of 2% alcoholic KOH are added to 8 g of I in 30 ml of

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POLAND/Organic Chemistry. Synthetic Organic Chemistry
Abs Jour: Ref Zhur - Khim., No. 4, 1959, 11880

G

absolute alcohol, and the mixture is heated for 2 hours. The residue after distillation of the alcohol is dissolved in ether and saturated with HCl; the hydrochloride of III is obtained in quantities of I and aldehyde are dissolved in Method B and a small quantity of $KHCO_3$ is added. C_6H_6 and a solution is saturated with HCl, and water, the solution is filtered off, the hydrochlorides are formed. N-nitroso derivatives are obtained by the addition of an aqueous solution of $NaNO_2$ to weakly acidified solutions of the hydrochlorides. All compounds give Liebermann's reaction. -- J. Wolf

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Abs Jour: Ref Zhur - Khim., No. 4, 1959, 11737

Author : Urbanski T., Dombrowska H., Lesiowska E.,
Piotrowska H.

Inst : Not given.

Title : Aliphatic Nitrocompounds. XXX. Products of
the Reaction of 1-nitro-n-pentane and 1-nitro-
n-hexane with Formaldehyde and Ammonia or
Primary Amides.

Orig Pub: Roczn. chem., 1957, 31, No.2, 687-694

Abstract: During the heating (after the end of the exo-
thermic reaction) of a mixture of 0.2 mol of
30% HCHO with 0.1 mol of nitro-n-pentane (I)
in 20 ml of dioxane and 1 drop of $(C_2H_5)_3N$ at
70-75° for 3 hours, 2-nitro-2-n-butylpropane-
diol-1,3 (II) is produced (yield, 74%; melting

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point, 48-49°). Similarly, from 1-nitro-*n*-hexane, there is obtained 2-nitro-2-*n*-amylpropanediol-1,3 (yield, 60%; melting point, 53-54°). During the heating (about 100° for 4 hours) of equimolar quantities of II by 30% HCHO and 25% NH₄OH, there are obtained 5-nitro-*n*-butyltetrahydro-1,3-oxazine (III) (liquid), and the hydrochloride of III (yield, 15%; melting point, 172-174°). III is produced also (yield of the hydrochloride is 10%) by boiling for 3 hours 0.1 mol of I, 0.3 mol of 30% HCHO and 0.1 mol of 25% NH₄OH; the picrate's melting point is 150-151°. The hydrochloride of III, during boiling with concentrated HCl in 80% alcohol, hydrolyzes, separating HCHO and forming 2-nitro-2-oxymethylhexylamine (IV). The action of 30% HCHO on IV (the heating is over

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a hot water bath), again forms III; the hydrochloride (melting point, 105-106°). Analogously to III, there are formed from I, HCHO and methylamine (40% aqueous solution) or ethylamine (33% aqueous solution); 3-methyl-5-nitro-5-n-butyltetrahydrooxazine-1,3 (liquid); the hydrochloride (yield, 70%; melting point, 170-172°); 3-ethyl-5-nitro-5-n-butyltetrahydrooxazine-1,3 (liquid); the hydrochloride (yield, 65%, melting point, 174-176°). Similarly, as described above, from 1-nitro-n-hexane there are obtained: 2-nitro-2-n-amylopropanediol-1,3 (yield, 60%; melting point, 53-54°), the hydrochloride of 5-nitro-5-n-amylo-1,3-tetrahydro-1,3-oxazine (yield, 4%, melting point, 174-175°); the hydrochloride of 3-nitro-5-n-amylo-1,3-tetrahydro-1,3-oxazine (yield, 60%; melting point, 191°), and the hydrochloride of 3-ethyl-5-nitro-5-n-

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amyltetrahydro-1,3-oxazine (yield, 49%; melting point, 178-179°). Report XXIX; see RZhKhim, 1959, 11880. -- B. Szczycinski

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PIOTROWSKA, H.

Fritillaria meleagris L. on the island of Usedom. p.239.

BADANIA FIZJOGRAFICZNE NAD POLSKA ZACHODNIA. Poznan, Poland. Vol.4, 1958.

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Uncl.