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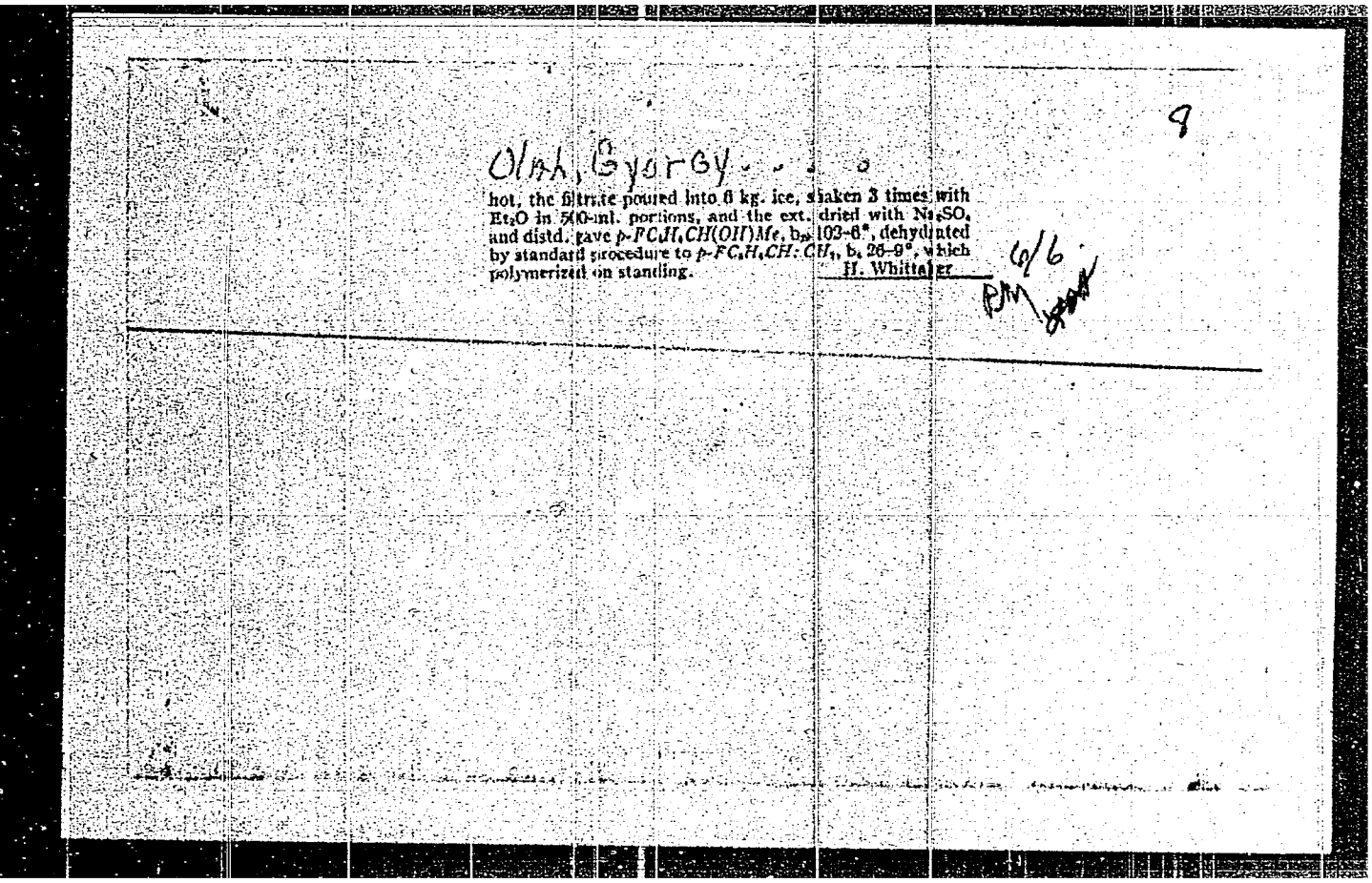

Olah, Gyorgy

hot, the filtrate poured into 6 kg. ice, shaken 3 times with Et_2O in 500-ml. portions, and the ext. dried with Na_2SO_4 and distd. gave *p*-$FC_6H_4CH(OH)Me$, b_{20} 103–6°, dehydrated by standard procedure to *p*-$FC_6H_4CH{:}CH_2$, b. 26–9°, which polymerized on standing.

H. Whittaker

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PAVLATH, A.

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Synthesis of organic fluorine compounds. XII. Nitration of fluorobenzene. György Oláh, Attila Pavláth, I. Kuhn, and Gy. Varsányi (Central Research Inst. Chem., Hungarian Acad. Sci., Budapest). *Acta Chim. Acad. Sci. Hung.* 7, 431–42(1955)(in English); cf. *C.A.* 50, 11201*a*; 52, 5288*i*.—PhF was nitrated by the following methods and the proportion of $FC_6H_4NO_2$ isomers formed detd. from the ultraviolet absorption spectra (reagents, % yield, temp. of reaction, and % *p*-, *o*-, and *m*-isomers given): 35 g. HNO_3 (sp. gr. 1.41) and 128 g. concd. H_2SO_4, 84.5, −10°, 90, 8, —; 40 g. $H_2SO_4.H_2O$, 25 g. 80% H_2SO_4, and 30 g. $NaNO_3$, 65, 60–70°, 90, 8, —; $AcONO_2$, 71.2, 0°, 96, 4, —; $BzONO_2$, 60.2, cooled, 100, —, —; CCl_4 + N_2O_5, 93.8, cooled, 72, 28, —; liquid N_2O_4, — (5.5 g. from 25 g. PhF), room temp., 78, 16, 6; N_2O_4 vapor, — (4 g. from 96 g. PhF), 130°, —, 90, 10. Ionic reactions give largely *p*-isomers, mixed type give 72–8% *p*- and 16–28% *o*-isomers, and the presumably radical type mechanism 90% *o*- and 10% *m*-isomers. 1,2,4-$FC_6H_3(NO_2)_2$ (I), b$_5$ 153–6°, was prepd. in 49% yield from 57 g. PhF with 70 g. $H_2SO_4.H_2O$ and 75 g. fuming HNO_3 at −5 to 0° in 24.8% yield from 101 g. 2,4-$ClC_6H_3(NO_2)_2$ in 101 g. $PhNO_2$ heated 2 hrs. at 105–10° in ultraviolet light with 20 g. dry KF, and the process repeated 3 times, and in 79.8% yield, m. 24°, from 4 g. PhF cooled and stirred with 9.5 g. N_2O_5 added in small portions. I (1 g.) added to 4 g. 60% oleum at 0° with 3 g. $H_2SO_4.H_2O$ and 3 g. fuming HNO_3, the mixt. heated to 90° 2 hrs. and to 130° 10 hrs., cooled, and poured onto ice yielded 36% *sym*-$FC_6H_2(NO_2)_3$ (II), m. 35°. Further nitration of 5 g. I with 5 g. N_2O_5 added with cooling, the mixt. warmed slowly, heated 1 hr. on a boiling H_2O bath, cooled, poured on ice, and the ppt. dried *in vacuo* yielded a mixt. contg. 54% II. II is explosive. Curves of the absorption spectra of *o*-, *m*-, and *p*-$FC_6H_4NO_2$ between 2700–3000 A. are given and the method of quant. analysis by absorption spectra (Varsányi, *C.A.* 50, 7666*i*) simplified for mixts. of products of identical mol. wt. XIII. Derivatives of 2-fluoroethylurethan. György Oláh, Attila Pavláth, and László H. Noszkó. *Ibid.* 443–9; cf. *C.A.* 49, 6094*i*; 52, 3591*f*.—The following *2-fluoroethyl urethans*, $RNHCO_2(CH_2)_2F$, were prepd. by adding 0.1 mole $ClCO_2(CH_2)_2F$ (I) to 0.2 mole RNH_2 cooled in 50 ml. Et_2O, allowing the mixt. to stand overnight, filtering if necessary, drying the filtrate, and evapg. the Et_2O (R, crystg. solvent, m.p., and % yield given): *Ph*, —, 54–5°, 83.7; *o-MeC$_6$H$_4$*, —, 74–5°, 70.1; *m-MeC$_6$H$_4$*, —, b$_4$ 171–4°, 68.0; *p-MeC$_6$H$_4$*, —, 59–60°, 82.7; *p-FC$_6$H$_4$*, hexane, 75°, 80.6; *p-FC$_6$H$_4$CH$_2$*, ligroine, 58–9°, 83.8; *p-ClC$_6$H$_4$*, hexane, 64°, 60.8; *p-BrC$_6$H$_4$*, hexane, 94°, 94.6; *p-IC$_6$H$_4$*, hexane, 111–12° (yellow crystals), 82.3; *o-O$_2$NC$_6$H$_4$*, 30% EtOH, 62° (yellow crystals), 86.7; *m-O$_2$NC$_6$H$_4$*, 30% EtOH, 51–2°, 81.1; *p-O$_2$NC$_6$H$_4$*, 30% EtOH, 124–5° (yellow), 88.7; *N-phenyl-N-methyl*, —, — (b$_4$ 125–7°), 92.4; *N-phenyl-N-ethyl*, —, — (b$_3$ 118–20°), 86.3; *α-pyridyl*, EtOH, 123.5°, 81.4; *β-pyridyl*, EtOH, 106°, 75.9; *γ-pyridyl*, EtOH, 130°, 80.2; *N,N-bis(2-chloroethyl)*, —, — (b$_3$ 136–40°), 87.8; *N-(1-hydroxy-2,2,2-trichloroethyl)* (II), Me_2CO, 92°, 63.3; *N-(2,2,2-trichloroethylidene)*, —, 121°, 85.1. Similarly prepd. were: *N,N'-ethylene-2-fluoroethyldiurethan*, H_2O, 115°, 94.2; *N,N'-(2,2,2-trichloroethylidene)-2-fluoroethyldiurethan*, Me_2CO, 150°, 65.3;

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Synthesis of organic ...

2-fluoroethylurethan *N*-(2-fluoroethyl)carboxylate, Me_2CO, 08–9°, 66.4. With esterase blocking agents (e.g. diisopropyl fluorophosphate), toxic doses of these compds. administered to animals produced no toxic symptoms. The compds. are being tested as growth inhibitors for expti. cancerous tumors. XV. Decomposition reactions of derivatives of fluoroacetic acid. György Oláh, Attila Pavláth, and Gyula B. Major. *Ibid.* 451–3.—Fluoroacetates (I) with NH_4OH give the fluoroacetamide whose 15% H_2O soln. is stable. This soln. treated with chloride of lime (Hofmann reaction) decomp. completely. 2-Fluoroethanol (II) is also completely decompd. on alk. oxidation with chloride of lime. Biol. effects of I and II are similar. XVII. Preparation of 2-fluoroethylamine. György Oláh and Attila Pavláth. *Ibid.* 461–3.—See *C.A.* 50, 10042o.

Janet B. Austin

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PAVLATH, A.

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5 M.A. YOUTZ
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2049. Synthesis and Investigation of Organic Fluorine XIII. De-
Compounds. XII. Nitration of Fluorobenzene. (English.) Gy. Oláh, Chem.
rivatives of 2-Fluoro-Ethyl Urethane. L. H. Noszkó. Acta
A. Pavláth, I. Kuhn, Gy. Varsányi, and
[illegible] Academiae Scientiarum Hungaricae, v. 7, nos. 3-4,
1955, p. 431-448.
Includes graphs, tables. 20 ref.

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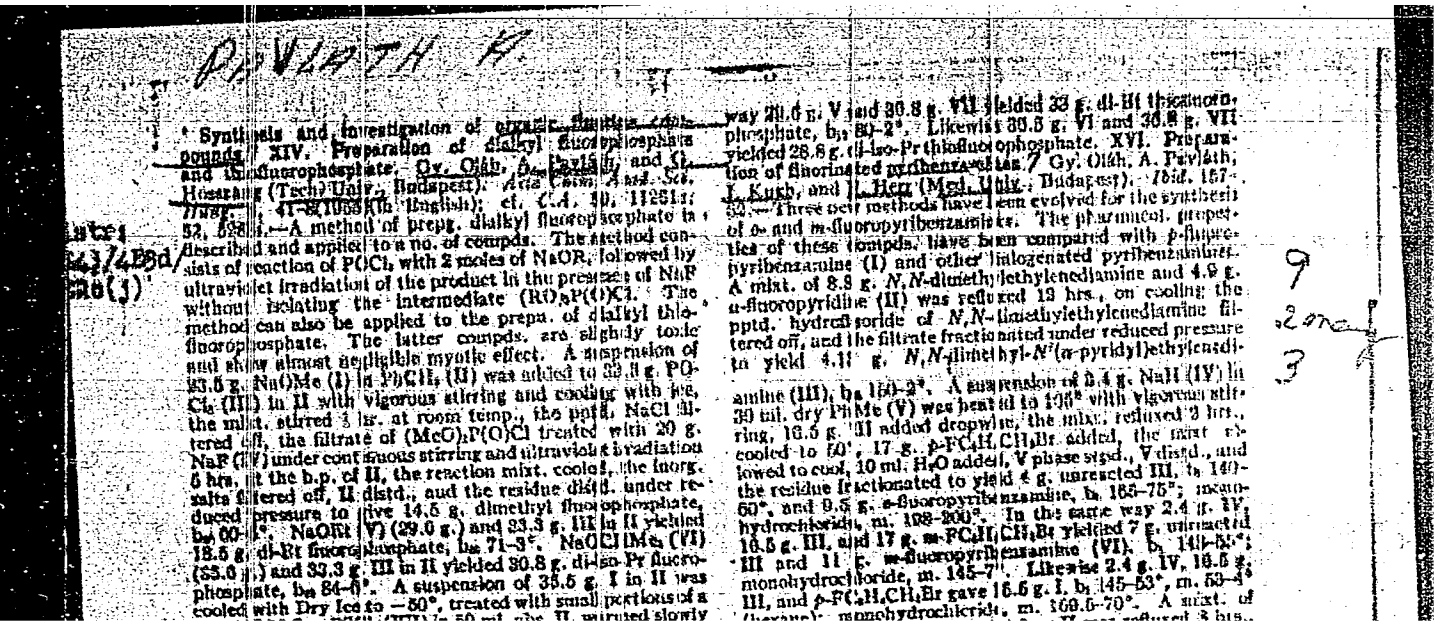

Synthesis and investigation of organic fluorine compounds. XIV. Preparation of dialkyl fluorophosphates and thiofluorophosphates. Gy. Oláh, A. Pavláth, and Sz. Hosztafy (Tech. Univ., Budapest). *Acta Chim. Acad. Sci. Hung.*, 41–8(1964)(in English); cf. *C.A.* 59, 11251f; 52, 598i.—A method of prepg. dialkyl fluorophosphate is described and applied to a no. of compds. The method consists of reaction of $POCl_3$ with 2 moles of NaOR, followed by ultraviolet irradiation of the product in the presence of NaF without isolating the intermediate $(RO)_2P(O)Cl$. The method can also be applied to the prepn. of dialkyl thiofluorophosphate. The latter compds. are slightly toxic and show almost negligible myotic effect. A suspension of 23.0 g. NaOMe (I) in $PhCH_3$ (II) was added to 39.0 g. $POCl_3$ (III) in II with vigorous stirring and cooling with ice, the mixt. stirred 3 hr. at room temp., the ppt'd. NaCl filtered off, the filtrate of $(MeO)_2P(O)Cl$ treated with 20 g. NaF (IV) under continuous stirring and ultraviolet irradiation 5 hrs., the b.p. of II, the reaction mixt. cooled, the inorg. salts filtered off, II distd., and the residue distd. under reduced pressure to give 14.5 g. dimethyl fluorophosphate, b$_{20}$ 60–1°. NaOEt (V) (29.0 g.) and 33.3 g. III in II yielded 18.5 g. di-Et fluorophosphate, b$_{18}$ 71–3°. NaOCH$_2$Me$_2$ (VI) (55.0 g.) and 33.3 g. III in II yielded 30.8 g. di-iso-Pr fluorophosphate, b$_{20}$ 84–6°. A suspension of 35.5 g. I in II was cooled with Dry Ice to −50°, treated with small portions of a way 20.6 g. V and 30.8 g. VI yielded 33 g. di-Bu thiofluorophosphate, b$_{12}$ 80–2°. Likewise 35.5 g. VI and 30.8 g. VII yielded 28.8 g. di-iso-Pr thiofluorophosphate. XVI. Preparation of fluorinated pyribenzamines. Gy. Oláh, A. Pavláth, I. Kuzy, and I. Herr (Med. Univ., Budapest). *Ibid.* 157–64.—Three new methods have been evolved for the synthesis of o- and m-fluoropyribenzamines. The pharmacol. properties of these compds. have been compared with p-fluoropyribenzamine (I) and other halogenated pyribenzamines. A mixt. of 8.8 g. *N,N*-dimethylethylenediamine and 4.9 g. α-fluoropyridine (II) was refluxed 13 hrs., on cooling the ppt'd. hydrofluoride of *N,N*-dimethylethylenediamine filtered off, and the filtrate fractionated under reduced pressure to yield 4.11 g. *N,N*-dimethyl-*N'*(α-pyridyl)ethylenediamine (III), b$_{14}$ 150–2°. A suspension of 5.4 g. NaH (IV) in 30 ml. dry PhMe (V) was heated to 100° with vigorous stirring, 16.5 g. III added dropwise, the mixt. refluxed 2 hrs., cooled to 50°, 17 g. p-FC$_6$H$_4$CH$_2$Br added, the mixt. allowed to cool, 10 ml. H_2O added, V phase sepd., V distd., and the residue fractionated to yield 4 g. unreacted III, b$_4$ 140–50°, and 9.5 g. α-fluoropyribenzamine, b$_4$ 165–75°; monohydrochloride, m. 198–200°. In the same way 2.4 g. IV, 16.5 g. III, and 17 g. m-FC$_6$H$_4$CH$_2$Br yielded 7 g. unreacted III and 11 g. m-fluoropyribenzamine (VI), b$_4$ 148–55°; monohydrochloride, m. 145–7°. Likewise 2.4 g. IV, 16.5 g. III, and p-FC$_6$H$_4$CH$_2$Br gave 16.5 g. I, b$_4$ 145–53°, m. 53–4°. A mixt. of (hexane)- monohydrochloride, m. 169.5–70°. A mixt. of

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ring and ultraviolet irradiation. morg. salts filtered off, ... distd., and the residue distd. under reduced pressure to yield 34.0 g. di-Me thiofluorophosphate, b_{15} 68-70°. In the same

...dine (VII)... suspension of 1.2 g. II in 40 ml. V, the mixt. remained ...

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PAVLATH, A.; OLAH, GY.; KUHN. I.

Synthesis of flourine organic compounds. IX. Monomolecular reduction of fluoronitrobenzenes. X. Bimolecular reduction of fluoronitrobenzenes. X. Bimolecular reduction of fluoronitrobenzenes. XI. Preparation of several aromatic fluorine derivatives. In English. p. 65.

Vol. 7, no. 1/2, 1955

SOURCE: Monthly list of East European Accessions, (EEAL), LC, Vol. 5, No. 3, March 1956

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PAVLATH, A.

12. Preparation and properties of organic fluorine compounds. XII. The nitration of fluorobenzene. XIII. Derivatives of 2-fluoro-ethylurethane. (In English) Olah, A. Pavlath, I. Kuhn, Gy. Varsanyi, L. H. Noszko. Acta Chimica Academiae Scientiarum Hungaricae, Vol. 7, 1955, No. 3–4, pp. 431–449, 2 figs., 4 tabs.

Fluorobenzene was successfully nitrated in the liquid and in the vapour phase by using a nitrating acid, acetyl nitrate, benzoyl nitrate, nitrogen pentoxide or nitrogen tetroxide. In the experiments for the preparation of di and tri-nitro derivatives the authors succeeded for the first time to prepare picryl fluoride. Starting from 2,4-dinitrochlorobenzene the 2,4-dinitrofluorobenzene was prepared by ultraviolet catalyzed halogen exchange reaction in the presence of alkaline fluorides. Twenty-five new derivatives of 2-fluoroethylurethan were prepared and their biological evaluation as potential growth inhibitors in experimental sarcoma is in progress.

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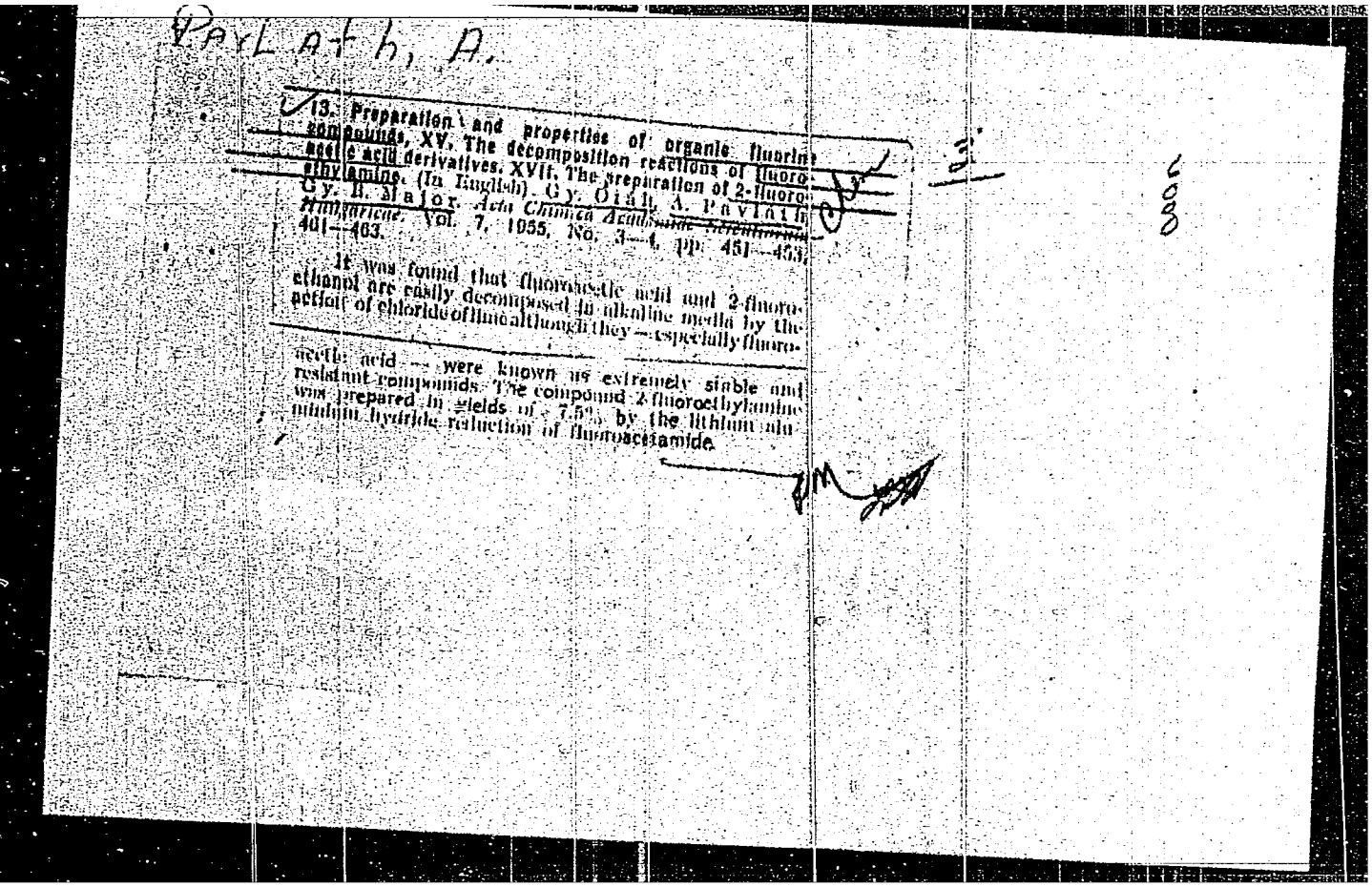

Pavlath, A.

13. Preparation and properties of organic fluorine compounds, XV. The decomposition reactions of fluoroacetic acid derivatives. XVII. The preparation of 2-fluoroethylamine. (In English). Gy. Major, Gy. Olah, A. Pavlath, Budapest. *Acta Chimica Academiae Scientiarum Hungaricae*, Vol. 7, 1955, No. 3-4, pp. 451-453; 401-403.

It was found that fluoroacetic acid and 2-fluoroethanol are easily decomposed in alkaline media by the action of chloride of lime although they — especially fluoroacetic acid — were known as extremely stable and resistant compounds. The compound 2-fluoroethylamine was prepared in yields of 75% by the lithium aluminium hydride reduction of fluoroacetamide.

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PAVLATH, A.

PAVLATH, A. Synthesis and investigation of fluorine organic compounds. VI. Preparation of fluorophosphoric acid dealkylates and thiofluorophosphoric acid dialkylates. In English. p. 41.

Vol. 8, no. 1/3, 1955
ACTA CHIMICA
SCIENCE
Budapest, Hungary

Sc: East European Accessions, Vol. 5, no. 5, May 1956

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PAVLATH, A.

HUNGARY/Organic Chemistry. Synthetic Organic Chemistry. E-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19232.

Author : Olah Gy., Pavlath A., Kuhn I., Herr F.
Inst :
Title : Synthesis of Organic Fluorine Compounds. XVI. Preparation of Fluorine Derivatives of Pyribenzamine.

Orig Pub: Magyar Tud. Acad. Kem. Tud. Oszt. Kozl., 1955, 6, No 3-4, 327-330.

Abstract: Three methods of synthesis of fluorine derivatives of pyribenzamine (N,N-dimethyl-N'-benzyl-N'-(α -pyridyl)-ethylenediamine) are developed. o-and m-fluoropyribezamines (I and II) were obtained and their antihystamine activity was compared. In a guinea-pig, 1 γ of hystamine neutralizes the action of 0.05-0.1 γ n-fluoropyribenzamine (III), 1 γ II and 10 γ I.I, II, III are less toxic, than other haloid substituted pyribenzamines. 0.1 mole N,N-dime-

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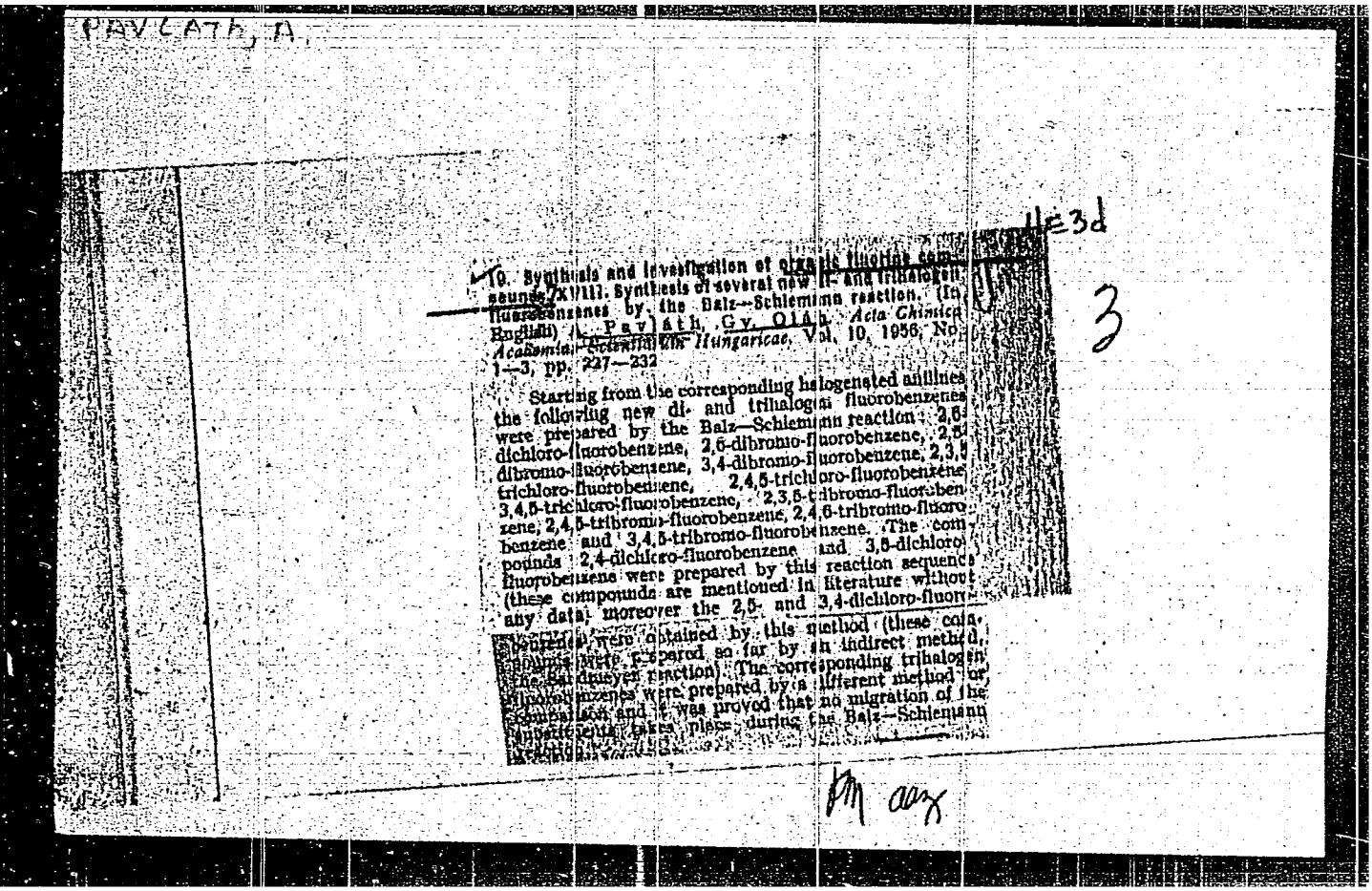

PAVLATH, A.

II-3d

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10. Synthesis and investigation of organic fluorine compounds. XVIII. Synthesis of several new di- and trihalogen fluorobenzenes by the Balz–Schiemann reaction. (In English) A. Pavláth, Gy. Olah. *Acta Chimica Academiae Scientiarum Hungaricae*, Vol. 10, 1956, No. 1–3, pp. 227–232

Starting from the corresponding halogenated anilines the following new di- and trihalogen fluorobenzenes were prepared by the Balz–Schiemann reaction: 2,6-dichloro-fluorobenzene, 2,6-dibromo-fluorobenzene, 2,5-dibromo-fluorobenzene, 3,4-dibromo-fluorobenzene, 2,3,5-trichloro-fluorobenzene, 2,4,5-trichloro-fluorobenzene, 3,4,5-trichloro-fluorobenzene, 2,3,5-tribromo-fluorobenzene, 2,4,6-tribromo-fluorobenzene, 2,4,5-tribromo-fluorobenzene, 2,4,6-tribromo-fluorobenzene and 3,4,5-tribromo-fluorobenzene. The compounds 2,4-dichloro-fluorobenzene and 3,5-dichloro-fluorobenzene were prepared by this reaction sequence (these compounds are mentioned in literature without any data); moreover the 2,5- and 3,4-dichloro-fluorobenzene were obtained by this method (these compounds were prepared so far by an indirect method, the Sandmeyer reaction). The corresponding trihalogen-fluorobenzenes were prepared by a different method of condensation and it was proved that no migration of the substituents takes place during the Balz–Schiemann reaction.

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PAVLÁTH A

Isolation of the stable boron trifluoride-hydrogen fluoride complexes of the methylbenzenes—the onium (or π complex) structure of the Friedel-Crafts complexes. G. Oláh, I. Kuhn, and A. Pavláth (Hung. Acad. Sci., Budapest). *Nature* 178, 695–6(1956); cf. McCulay, *et al.*, *C.A.* 45, 933h.—Stable BF_3–HF complexes of some methylbenzenes were isolated at low temp. Melting points and specific cond. of the following complexes were detd.; toluene, −65°, 0.8×10^{-3} ohms^{-1} cm.$^{-1}$; *m*-xylene, −55°, 2.0×10^{-3} ohms^{-1} cm.$^{-1}$; mesitylene, −15°, 1.3×10^{-3} ohms^{-1} cm.$^{-1}$; isodurene, −10°, 0.6×10^{-3} ohms^{-1} cm.$^{-1}$. J. M.

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PAVLATH, A

4E3d

The benzotrifluoride-nitryl fluoride-boron trifluoride complex. V. Gold, L. Nonko, and A. Pavlath (Hung. Acad. Sci., Budapest). *Nature* 179, 146-7(1957).—Addn. of 0.1 mole PhCF, in small portions to 0.1 mole NO_2F at −80° was followed by addn. of 0.2 mole BF_3 at −100°. On warming to −100° 0.1 mole BF_3 was evolved. The yellow solid complex stable up to −50° was a 1:1:1 compd. of the 3 substances. It decompd. to give a high yield of m-$O_2NC_6H_4CF_3$. An onium salt structure was postulated for the complex. William B. Guenther

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PAVLATH, A.

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Chem

Silver tetrafluoroborate as a catalyst in electrophilic aromatic substitutions. G. Oláh, A. Pavláth, and I. Kuhn (Hung. Acad. Sci., Budapest). *Chem. & Ind.* (London) 1957, 50.—$AgBF_4$ (Sharps, *C.A.* 47, 4777f) is an efficient catalyst for the title reactions. It is believed to form an intermediate complex with aromatic compds. When, e.g., a halide reacts with the complex, Ag halide is eliminated.

Charles M. Stevens

PM fur lacy

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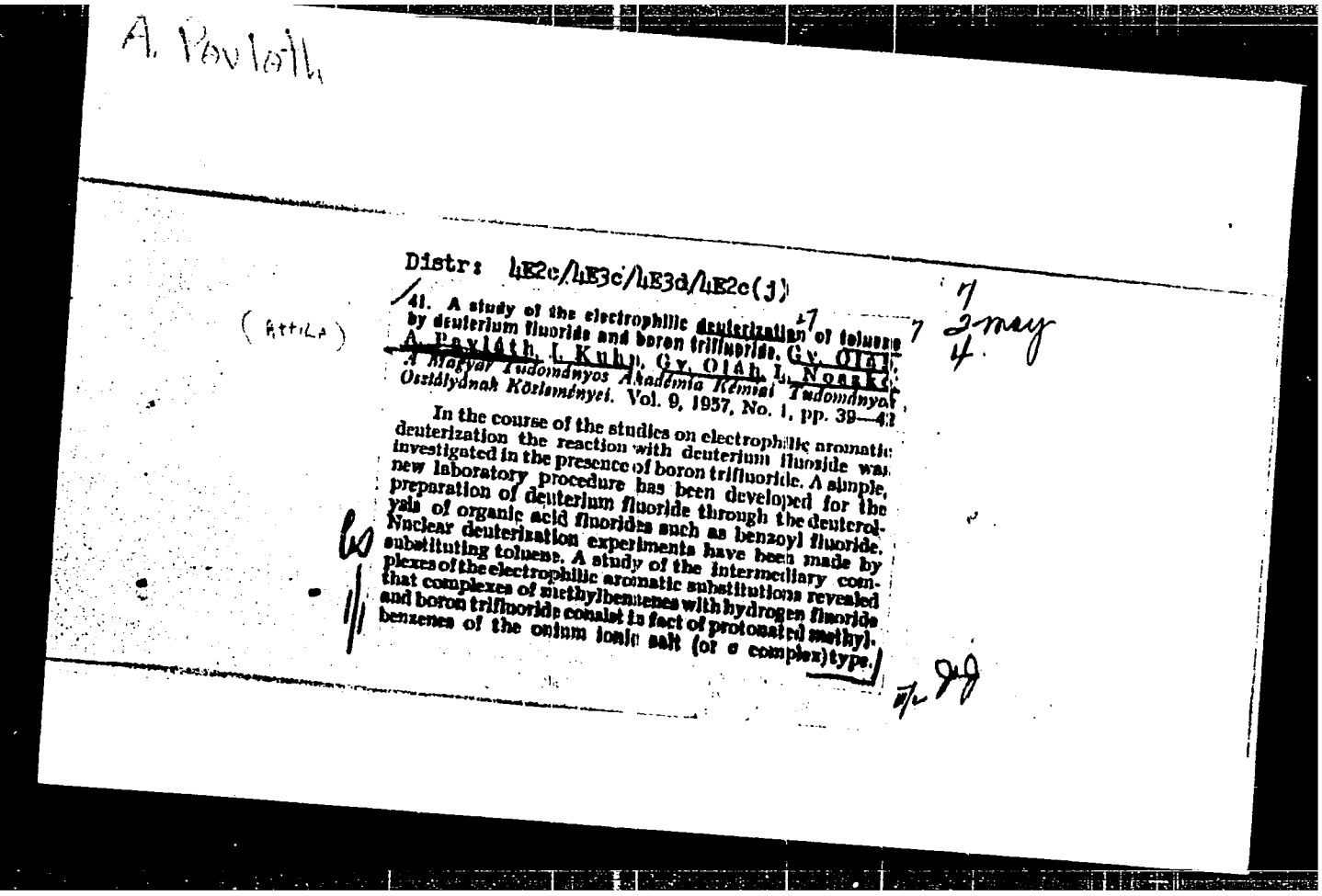

A. Pavlath

Distr: 4E2c/4E3c/4E3d/4E2c(j)

(ATTILA)

41. A study of the electrophilic deuterization of toluene by deuterium fluoride and boron trifluoride. Gy. OLAH, A. Pavlath, I. Kuhn, Gy. OLAH, L. NOSKÓ. *A Magyar Tudományos Akadémia Kémiai Tudományok Osztályának Közleményei.* Vol. 9, 1957, No. 1, pp. 39—42

In the course of the studies on electrophilic aromatic deuterization the reaction with deuterium fluoride was investigated in the presence of boron trifluoride. A simple, new laboratory procedure has been developed for the preparation of deuterium fluoride through the deuterolysis of organic acid fluorides such as benzoyl fluoride. Nuclear deuterization experiments have been made by substituting toluene. A study of the intermediary complexes of the electrophilic aromatic substitutions revealed that complexes of methylbenzenes with hydrogen fluoride and boron trifluoride consist in fact of protonated methylbenzenes of the onium ionic salt (or σ complex) type.

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JIRA, Vladimir, dr.; BERNARD, Frantisek, dr.; URBANEC, Alfons, dr.; LUHAN, Jaroslav, dr.; VOZKA, Vladimir, dr.; POLASEK, Jan, dr.; PAVLATOVA, Jarmila, dr.; SVATOSOVA, Marie, dr.

Comments on the individual parts of the draft of the Czechoslovak labor code. Prace mzda 11 no.1:15-60 Ja'63 (MIRA 17:8)

1. Pracovne pravni oddeleni, Ustredni rada odboru (for Jira, Bernard, Urbanec, Luhan, Vozka, and Polasek).. 2. Pracovne pravni komise, Ustredni rada odboru (for Pavlatova and Svatosova).

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

KRCILKOVA,M.; VENTERA,J.; PAVLATOVA,M.; ZMATLIKOVA,M.

Experiences in the therapy of rheumatic fever in 299 children with salicylates and combined therapy (salicylates and hormones). Cesk. pediat.18 no.11:1037-1042 N'63.

1. Laborator pro detskou pneumologii fakulty vseobecneho lekarstvi KU v Praze; vedouci: prof.dr. F.Blazek.

*

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PAVLATOVA, Tanya [Pavlátová, Táňa]

Smarod lives. IUn.nat. no.5:29-30 My '59. (MIRA 12:6)
(Prague region--Bees--Diseases and pests)

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PAVLECKA, JAN

Vynalezy jich tvoreni, nova ochrana a lepsi vyuzivani. [Vyd. 1.] V. Brne, Zar, 1947. 138 p. [Inventions; their creation, new regulations for their protection, and better exploitation of them. Bibl.]

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, LC., VOL. 3, NO. 1, Jan. 1954, Uncl.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLEICHENKO, N. I.

Moving-Picture Theaters

Designing built-in movie theatres for Moscow. Gor. khoz. Mosk., 26, No. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1952, Uncl.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

M

Country : YUGOSLAVIA
Category: Cultivated Plants. Potatoes. Vegetables. Cucurbits.

Abs Jour: RZhBiol., No 22, 1958, No 100305

Author : Pavlek, Paula
Inst : -
Title : The Effect of Different Sowing Dates and Different Methods of the Treatment of Cauliflower seeds on the Dates of Maturity and Increase in the Yield.

Orig Pub: Tehn. pregl., 1956, 8, No 6

Abstract: 1951-1953 studies of cauliflower varieties Snezhnyy Shar and Erfurdskaya Rannyaya showed that with the growing of the seedlings in cold beds, in the absence of air motion and

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SUCEVEANU, Gheorghe, ing.; PAVLENCO, Sorin, ing.

Sulfurizing pump components. Metalurgia constr mas 14 no.10:874-880 O '62.

1. Institutul de studii, cercetari si proiectari tehnologice pentru industria constructoare de masini si industria electrotehnica (for Suceveanu). 2. Uzina de pompe si masini agricole (for Pavlenco).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENISHVILI, G. V.: Doc Med Sci (diss) -- "Material on the study of chronic firearm osteomyelitis of the long hollow bones". Tbilisi, 1958. 24 pp (Tbilisi State Med Inst), 200 copies (KL, No 1, 1959, 141)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENISHVILI, G. V.

Pavlenishvili, G. V. "The problem of the diagnostic value of Katel's reaction in new malignat growths," (Report), Trudy III Zakavkazsk. s"yezda Khirurgov, Yerevan, [illegible] (on cover: 1949), pp. 160-17[illegible]

SO: U-5240, 17 Dec. 53. (Letopis 'Zhurnal'nykh Statey, No. 26, 1949).

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L 05249-67 EWT(1)/FCC GW
ACC NR: AP6018934 (N) SOURCE CODE: UR/0203/66/006/003/0613/0614

32
30
C

AUTHOR: Nodia, M. Z.; Vekua, L. V.; Chelidze, Z. A.; Pavlenishvili, Ye. Sh.

ORG: Tbilisi State University (Tbilisskiy gosudarstvennyy universitet)

TITLE: A method for studying the secular variations of the Earth's magnetic field before our era

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 3, 1966, 613-614

TOPIC TAGS: geomagnetic field, earth magnetic field, secular variation, paleontology

ABSTRACT: In order to obtain data on the secular variations of the Earth's magnetic field before our era, the authors collected more than 300 samples of 50 objects, for six of which the directions of the astronomic meridian were determined. Since these objects were only roughly dated, they could not be subjected to conventional research techniques and a new method for studying the secular variations of accumulation on the basis of these objects had to be devised. Recent theoretical work indicates that the absolute intensity value of the earth's magnetic field undergoes variations, the periodicity of which has yet to be established. On the basis of paleomagnetic data it may be assumed that this period is not less than 5,000 years, while the period of secular accumulation variations is in the order of 1,000 years. It one uses as a point of

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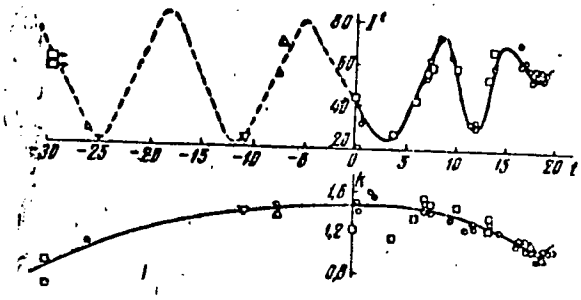

Fig. 1

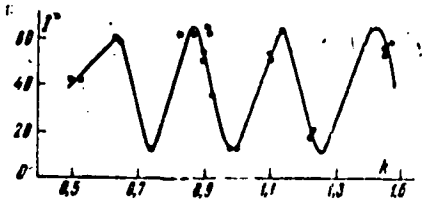

Fig. 2

departure the curve k = f(t) before our era (Fig. 1) and if a curve I = f(t) is plotted in conformity with measured values, such a curve will appear as shown in Fig. 2. It is clear from an analysis of this curve that the character of the cumulative change was sinusoidal even before our era for the territory of the Georgian SSR, while the double amplitude lies in a range of 10—60°. If these results are compared with S. P. Burlatskaya's curve (Sb. "Magnetizm gornykh porod i paleomagnetizm". Izd-yo SO AN SSSR, 1963, 245), all the points will be found to lie on Burlatskaya's hypothetical curve (Fig. 3). The points for samples ascribed to the earlies eras, for which k = 0.5, agree well with the logical extension of the k = f(t) curve, by which they can be tentatively dated as belonging to the 35th century B. C. The

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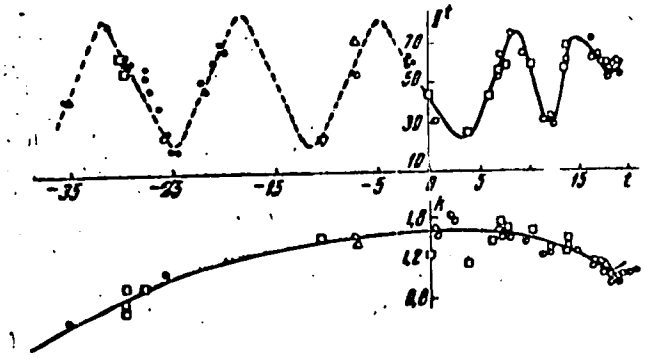

Fig. 3

cumulative value of these items, equal to 39—40°, falls quite satisfactorily on the descending branch of the sine curve I = f(t) (Fig. 3). Thus, compiete agreement is observed between the authors' results and those of Burlatskaya. In conclusion, the authors wish to express their gratitude to G. N. Petrova and S. P. Burlatskaya for their help. Orig. art. has: 3 figures.

SUB CODE: 08/ SUBM DATE: 08Jul65/ ORIG REF: 005

Card 3/3

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKA Z D.

ACCESSION NR: AP4025749 S/0201/64/000/001/0110/0112

AUTHOR: Goraw, K. V.; Pawlenka, Z. D.

TITLE: Effect of iron on the solubility of aluminum in a solid

SOURCE: AN BSSR. Izv. Seriya fiziko-tekhnicheskikh nauk, no. 1, 1964, 110-112

TOPIC TAGS: iron, nickel, chromium, aluminum, iron containing alloy, nickel containing alloy, chromium containing alloy, aluminum containing alloy, nickel chromium iron system

ABSTRACT: To determine the limits of saturation in a solid γ-solution of aluminum and titanium in alloys with different nickel and iron content, the nature of the change of the solubility of aluminum in a solid γ-solution of the alloy Ni-Cr-Fe in the temperature interval 970-1370°K as a function of the quantity of iron was determined by micro-and x-ray analysis and by the measurement of electrical resistance. The four specimen groupings had an iron content of 0, 10, 20, and 40%. In each group the aluminum content varied from 0 to 6%. X-ray analysis was carried out on a URS-70 unit. It was found that iron shifts the saturation line of

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ACCESSION NR: AP4025749

the solid γ-solution to the side of lower aluminum concentrations. The first addition of iron (10%) acts more powerfully in changing solubility, especially at high temperatures. The shift of the solubility line in the case of iron additions greater than 10% proceeds more or less evenly at temperatures from 970 to 1270°K. Metallographic analysis shows also that with increased iron concentration the β-phase (Ni-1) appears in the alloy structure at lower aluminum concentrations. In alloys without iron the β-phase appears in the alloy structure when the aluminum content is 6-8%, and in the case of 40% iron, when the aluminum content is 4%.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 10Apr64 ENCL: 00

SUB CODE: MM NO REF SOV: 000 OTHER: 001

Card 2/2

ABSTRACT: The present paper summarizes the results of geophysical investigations of the Earth's crust and mantle performed since 1961 in the Epihercynian Kara-Kum platform and the folded Alpine region of Kopet-Dag. Magnetotelluric surveys and seismic refraction work were conducted along a 440-km submeridional profile extending between Ashkhabad and Bakhardok. Several interfaces were investigated in the area near Ashkhabad. A geological cross section along the profile showing the structure of the Earth's crust and the upper mantle down to 85 km has been prepared

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ACC NR: AT6028368

from the geophysical data. The region lying between the Epihercynian platform and the geosyncline has been analyzed. The presence of lateral inhomogeneities in the mantle is noted. The presence of deep-seated faults is discussed, and their location and extent are determined. Orig. art. has: 1 figure.

SUB CODE: 08/ SUBM DATE: 06Jan65/ ORIG REF: 026/ OTH REF: 002

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKIN, A.D.

Use of the method of least squares in "krakowiany" form in the interpretation of seismic hodographs of reflected waves. Izv.AN Turk.SSR.Ser.fiz.-tekh., khim.i geol.nauk no.3:53-62 '63. (MIRA 17:3)

1. Otdel razvedochnoy geofiziki i seysmologii AN Turkmenskoy SSR.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

L 47108-66 EWT(1)/FCC GW

ACC NR: AR6019884 SOURCE CODE: UR/0169/66/000/002/G001/G002

AUTHOR: Mil'shteyn, D. M.; Avagimov, A. A.; Dubrovskiy, V. G.; Lykov, V. I.; Pavlenkin, A. D.; Solokhov, V. V.; Shikhanovich, E. L.

TITLE: The formulation of new trends of research on the structure of the Earth's crust and upper mantle in Turkmenistan by geophysical methods

SOURCE: Ref. zh. Geofizika, Abs. 2G6

REF SOURCE: Sb. Geol. rezul'taty prikl. geofiz. Geofiz. issled. stroyeniya zemn. kory. M., Nedra, 1965, 33-44

TOPIC TAGS: Earth crust, upper mantle, electromagnetic field, magnetotelluric probing, seismologic testing

ABSTRACT: Information on the structure of the Earth can be obtained by a magnetotelluric probing method of observation and interpretation of the recordings of various types of elastic waves, generated during natural earthquakes, and by studying the variations with different periods of the natural electromagnetic field of the Earth. This method is based on the study of the ratio of variations in the electric and magnetic components of the Earth's electromagnetic field.

Card 1/2 UDC: 550.311:551.14(575.4)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO

USSR/Cultivated Plants - Fruits. Berries. L-6

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 1957, 69390

Author : Pavlenko
Inst :
Title : Agrotechnique of the "Funduk" (a Nut Variety)

Orig Pub : Kolhospnik Ukraini, 1956, No 10, 33-35

Abst : No abstract.

Card 1/1

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

PAVLENKO, A., kombaynerr.

Collective labor agreement in practice. Sov.prof'soiuzy 4 no.8:28-30 Ag '56. (MLRA 9:10)

1.Predsedatel' zhilishchno-bytovoy komissii Panfilovskoy mashinno-traktornoy stantsii.
(Panfilovo (Stalingrad Province)--Machine-tractor stations)
(Collective labor agreements)

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

21(0); 1(0); 2(10) PHASE I BOOK EXPLOITATION SOV/2210

Atomnaya energiya v aviatsii i raketnoy tekhnike; sbornik statey (Atomic Energy in Aviation and Rocket Engineering; Collection of Articles) Moscow, Voyen. Izd-vo M-va obor. SSSR, 1959. 500 p. (Series: Khudno-popularnaya biblioteka) No. of copies printed not given.

Ed. - Compiler: P.P. Astashenkov, Engineer, Lt.-Col; Ed.: Ya.M. Inder; Tech. Ed.: A.M. Gavrilova.

PURPOSE: This book is intended for officers of the Soviet Armed Forces, members of DOSAAF, and the general reader interested in the use of atomic energy and in the development of aviation and rocket engineering.

COVERAGE: This collection of 26 articles, compiled by 28 Soviet scientists and based chiefly on non-Soviet materials, discusses various aspects of the use of atomic energy in rocketry and aviation. The book surveys the development of atomic and thermonuclear weapons and weapon carriers, lays down the principles of anti-atomic defense, and evaluates the application of nuclear energy in aviation and rocketry. Fuel and construction materials, as well as actual physical and technological processes involved, are treated briefly. Fundamentals of atomic warfare and combat tactics are discussed at some length. The book is divided into four parts, of which the last consists chiefly of anti-Western propaganda. Section I is devoted to nuclear weapons and their use in aviation. Section II is on anti-atomic defense, especially the defense and decontamination of airfields and aircraft, and defense against radiation. Section III is on the use of nuclear energy in modern aircraft and rocket technology and flight techniques, including some speculations on space travel and on the energy of the future. There are 126 figures and 35 non-Soviet references (some in Russian translation).

TABLE OF CONTENTS:

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A.

Daringly introduce new methods and make better use of all resources. Sil'.bud. 7 no.12:5 D '57. (MIRA 13:5)

1. Predsedatel' ispolkoma Bereznyanskogo rayonnogo Soveta deputatov trudyashchikhsya.
(Bereznа District--Farm buildings)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A.; BAUSIN, A.; SMIRNOV, M.; KOGTEV, G.; SPIRIN, S.; NEKRASOV, A.; BABAYAN, R.; CHELYSHEV, S.; BOGDANOV, A.; KOTILEVSKIY, D.; KRYLOV, N.; SAVINOV, M.

N.I. Zakharov; obituary. Energetik 4 no.6:40 Je '56. (MLRA 9:8)
(Zakharov, Nikolai Ivanovich, 1898?-1956)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

MOSIN, V.; PAVLENKO, A.

Calculating norms for the number of auxiliary workers in the machinery manufacturing enterprises. Biul.nauch.inform.: trud i zar.plata 3 no.9:17-23 '60. (MIRA 13:9)
(Machinery industry)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A.

Using momentary observations in repair work. Sots. trud 8 no.12:105-108 D '63. (MIRA 17:2)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A.

Determining the number of repair workers in an enterprise. Biul. nauch.inform.: trud i zar.plata 4 no.6:29-36 '61. (MIRA 14:6)
(Voroshilovgrad—Diesel locomotives—Maintenance and repair)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A.A.

Manufacture of frozen fruits and vegetables. Kons. i ov.prom. 18 no.4: 19 Ap '63. (MIRA 16:3)

1. Konservnyy kombinat v Krymske.
(Fruit, Frozen) (Vegetables, Frozen) (Canning idustry)

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ACCESSION NR: AR4049251 S/0196/64/000/000/G011/G011

536.25

SOURCE: Ref. sh. Elektrotekhnika i energetika, Abs. 8G63

36
B

AUTHOR: Pavlenko, A. A.

TITLE: Experimental determination of the effect of free convection upon the heat exchange and aerodynamic force when a flow crosses over a cylinder

CITED SOURCE: Tr. Kuybyshevsk. aviats. in-t, vyp. 15, ch. 2, 1963, 221-223

TOPIC TAGS: convection, aerodynamic force, heat exchange

TRANSLATION: Some results are reported of an experiment carried out on a set-up which consisted of an internally-heated cylinder mounted on an electrodynamic balance and placed in a wind tunnel. With a heated cylinder, the point of separation of the boundary layer on the upper surface shifted along the stream at low Re; at high Re, the separation point shifted toward the end of the cylinder; on the lower surface, the separation point did not change as in the case of a cold cylinder. The boundary layer on the lower cylinder surface remained laminar. The resistance of the heated cylinder was higher than that of the cold.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A. F., Cand Pharm Sci -- (diss) "Synthesis of the 5-derivatives of the hydrazone of thiazolidindione-2,4." Leningrad, 1960. 14 pp; (Ministry of Public Health Ukrainian SSR, L'vov Medical Inst, Leningrad Chemical Pharmaceutical Inst); 300 copies; price not given; (KL, 51-60, 122,

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

TURKEVICH, N.M.; PAVLENKO, A.F.

Synthesis of thiazolidone derivatives of biological interest.
Part 17: Ultraviolet spectra of 2,4-thiazolidinedione-2-hydrazone.
Zhur.ob.khim. 32 no.3:977-979 Mr '62. (MIRA 15:3)

1. L'vovskiy meditsinskiy institut.
(Thiazolidinedione—Spectra)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A. F.

Palimpsestov, M. A., Rodionov, P. S., and Pavlenko, A. F. "Results of treating monieziasis in calves", (Report), Sbornik rabot po gel'mintologii (Vsesoyuz, in-t gel'mintologii im. akad. Skryabina), Moscow, 1948, p. 156-57.

SO: U-3042, 11 March 53, (Letopis'nykh Statey, No. 10, 1949).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

ARKHANGEL'SKIY, Mikhail Mikhaylovich; PAVLENKO, A.A., dots., retsenzent; BESSONOV, I.I., dots., retsenzent; CHEBOTAREVA, A.V., red.; KARPOVA, T.V., tekhn. red.

[Course in physics; mechanics] Kurs fiziki; mekhanika. Moskva, Gos. uchebno-pedagog.izd-vo M-va prosv. RSFSR, 1961. 407 p. (MIRA 15:2)

1. Moskovskiy gosudarstvennyy universitet (for Pavlenko).
2. Kirovskiy pedagogicheskiy institut (for Bessonov).
(Mechanics)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENOK, A.I.

Creative work of miners. Mast. ugl. 5 no.8:5 Ag '56.
(MLRA 9:11)

1. Mashinist ekskavatora Vostochnogo razreza kombinata Dal'vostugol'.
(Coal miners)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A.L. (Moskva)

Propagation of waves in an elastic string. Izv.AN SSSR.Otd. tekh.nauk. Mekh. i mashinostr. no.4:112-122 Jl-Ag '59. (MIRA 12:8)

(Elastic rods and wires) (Wave mechanics)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

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ACCESSION NR: AR3006444 S/0124/63/000/008/V015/V015

SOURCE: RZh. Mekhanika, Abs. 8V112

57

AUTHOR: Belonosov, S. M.; Pavlenko, A. L.; Pavlov, B. M.; Roslyakov, G. S.

TITLE: Transverse shock along a membrane with a circular aperture

CITED SOURCE: Sb. rabot Vy*chisl. tsentra Mosk. un-ta, v. 1, 1962, 183-208

TOPIC TAGS: circular aperture, transverse load, bursting, longitudinal wave, stress

TRANSLATION: The problem of the propagation of waves in an infinite elastic membrane under the influence of a transverse load, suddenly applied to the boundary of a stiff frame of a circular aperture is considered. It is supposed that the load in the initial instant causes speed V at the edge and with time this edge moves forward according to a given law. The force of resistance of the medium surrounding the membrane is taken into account. The differential equation of the problem is introduced; the obtained system has the property that the propagation of its longitudinal and transverse waves are described separately. The leading of fronts of these waves because of the shock character of the load are lines of bursting

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ACCESSION NR: AR3006444

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force. By these lines membrane at any moment of time is subdivided into three parts; the quiet region, the region of pure radial motion and the region of longitudinal-transverse motion. The problem is solved by the method of the characteristic, the condition on the lines of bursting force are determined from the laws of conservation of mass and momentum. Making the transition to finite difference equations, the author furnishes the computation equation for the points of the membrane which are found at the given moment in different regions of motion. As a numerical example, on the Strela computer the calculation for one variant of the problem, for which the initial velocity V_0 equal to 1/4 of the velocity of propagation of the longitudinal waves was carried out. Graphs were constructed on which the shapes, speed and the acceleration of the boundary end as function of time, and position, deformation, and the stress state of the membrane for different moments of time were plotted. Yu. R. Lepik

DATE ACQ: 28Aug63 SUB CODE: AP ENCL: 00

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L 00721-66 EWT(1)/ETC(m)

ACCESSION NR: AT5013295 UR/3043/65/000/004/0261/0286

AUTHOR: Pavlenko, A. L., Pavlov, B. M.

TITLE: Transverse impact on a flexible nonlinearly elastic membrane with a circular opening

SOURCE: Moscow. Universitet. Vychislitel'nyy tsentr. Sbornik rabot, no. 4, 1965. Chislennyye metody v gazovoy dinamike (Numerical methods in gas dynamics), 261-286

TOPIC TAGS: transverse wave, longitudinal wave, nonlinear elasticity, elastic oscillation

ABSTRACT: The author previously presented a numerical solution of the wave problem concerning the propagation, in a flexible linearly elastic membrane, of a perturbation generated by a transverse load suddenly applied to the edge of a rigidly framed circular opening (Belonosov S. M., Pavlenko A. L., Pavlov B. M., Roslyakov G. S. Sbornik rabot VTs MGU, "Vychislitel'nyye metody i programmirovaniye," vyp. I, 1962). The present paper represents a generalization of the problem to the case of a nonlinearly elastic membrane. Under this assumption, the problem became nonlinear in the physical as well as geometrical sense. Consequently, all four families of curves in the system of differential equations of the problem become

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ACCESSION NR: AT5013295 0

curvilinear and a priori it is impossible to establish a characteristic lattice. Also, the widening of the boundary opening of the membrane is assumed to proceed according to a predetermined pattern. Depending on the character of the load applied to the boundary opening and the shape of the stress-deformation ($\sigma \sim \varepsilon$) diagram the forward fronts of the longitudinal and transverse perturbation waves may exhibit weak or very strong discontinuities. In particular if an impact is applied, both wave fronts are sharply discontinuous and, depending on the $\sigma \sim \varepsilon$ diagram, the longitudinal front may be either a sound front or a shock front. Both fronts propagate at different velocities. The paper presents the calculation for the case when under transverse impact the $\sigma \sim \varepsilon$ curve is chosen in such a manner that it leads to a sharply discontinuous transverse and longitudinal wave. The numerical calculations follow a modified method of characteristics outlined in the article and all the computational formulas are collected in an appendix. Orig. art. has: 80 formulas and 10 figures.

Card 2/3

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L 00721-66

ACCESSION NR: AT5013295

3

ASSOCIATION: Vychislitel'nyy tsentr, Moskovskiy Universitet (Computer Center, Moscow University)

44,55

SUBMITTED: 00 ENCL: 00 SUB CODE: MA, ME

NO REF SOV: 002 OTHER: 000

Card 1/1

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

L 00720-66

ACCESSION NR: AT5013296 UR/3043/65/000/004/0287/0302

AUTHOR: Pavlenko, A. L., Pavlov, B. M., Roslyakov, G. S. 19 B+1

TITLE: Calculation of stresses in an infinite filament subjected to transverse impact of variable velocity

SOURCE: Moscow. Universitet. Vychislitel'nyy tsentr. Sbornik rabot, no. 4, 1965. Chislennyye metody v gazovoy dinamike (Numerical methods in gas dynamics), 287-302

TOPIC TAGS: elastic stress, elastic deformation, material deformation, transverse wave

ABSTRACT: The paper investigates the solution of the wave problem concerning the stresses generated in an elastic stretchable filament of infinite length following a transverse impact of variable velocity. The strain-stress relationship is assumed nonlinear in general. The presentation of the basic equation and of the initial and boundary conditions is followed by a description of the wave patterns and an outline of the numerical calculation of the problem using the method of characteristics described by two of the present authors (A. L. Pavlenko, B. M. Pavlov, Sbornik rabot VTs MGU "Chislennyye metody v gazovoy dinamike," no. 4, 1965, pp. 261-286). Calculations are carried out for two different filaments, both

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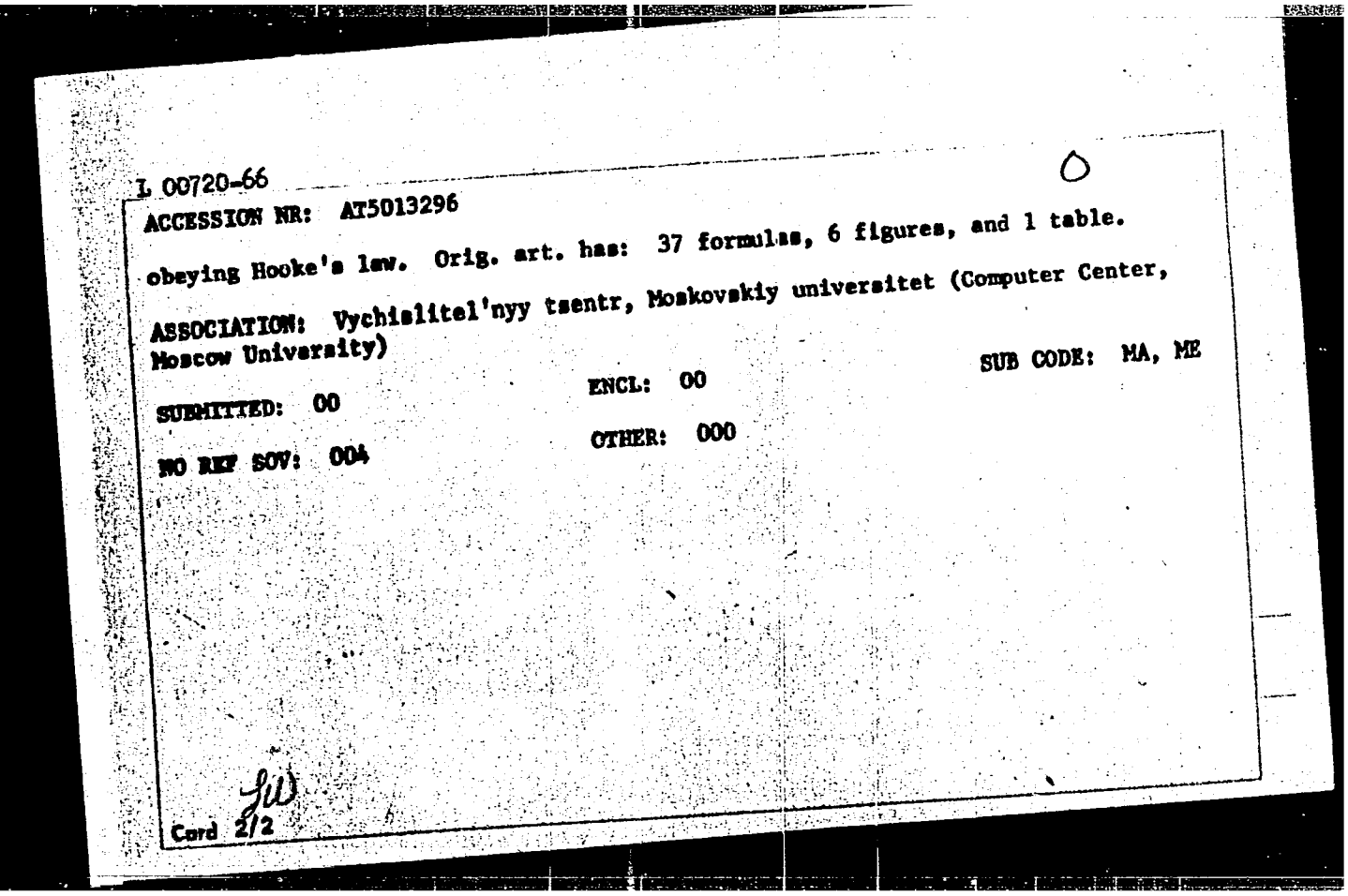

L 00720-66

ACCESSION NR: AT5013296

obeying Hooke's law. Orig. art. has: 37 formulas, 6 figures, and 1 table.

ASSOCIATION: Vychislitel'nyy tsentr, Moskovskiy universitet (Computer Center, Moscow University)

SUBMITTED: 00 ENCL: 00 SUB CODE: MA, ME

NO REF SOV: 004 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

24 (6)

AUTHOR: Pavlenko, A. I. (Moscow)

SOV/179-59-4-14/40

TITLE: On the Propagation of Cracks in the Elastic Thread

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye tekhnicheskikh nauk. Mekhanika i mashinostroyeniye, 1959, Nr 4, pp 112 - 122 (USSR)

ABSTRACT: After mentioning that the fundamental problems of the dynamics of the plastic-elastic flexible thread have been investigated by Kh A. Rakhmatulin (Refs 1, 2, 3), and the propagation of small cracks in flexible threads by N. Kristesku (Ref 4) and J.W. Craggs (Ref 5), small cracks are studied here by means of slightly different methods. The author uses a system of equations expressing separately the propagation of longitudinal and transverse disturbances. Thus, the author could obtain new ideas on the behavior of the parameters determining the motion and state of thread in the places of cracks. Special attention is paid to the theory of large cracks, to the conditions causing the cracks, their investigation, the kinds of cracks, and the origin of large cracks. The analysis of waves in the case of large cracks is made according to various methods. The conditions under which large cracks are possible are pointed out. These conditions, together with the equations

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for the dynamic and kinematic consistency, determine the cracks exclusively. It is shown that the large transverse waves always spread at velocity of sound, whereas the longitudinal waves are propagated either at velocity of sound or at a velocity different from it. Therefore, the heavy transverse waves are always sound waves, whereas the longitudinal waves are either sound- or shock waves. The existence of longitudinal-transverse waves, which may be light or heavy, was ascertained. All these kinds of waves may originate in the loading or unloading of the thread. There are 8 figures and 6 references, 5 of which are Soviet.

SUBMITTED: August 10, 1958

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

BELONOSOV, S.M.; PAVLENKO, A.L.; PAVLOV, B.M.; ROSLYAKOV, G.S.

Transverse impact on a membrane with a round opening. Vych. met. i prog. 1:183-208 '62. (MIRA 15:8)
(Strains and stresses) (Electronic calculating machines)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A. M. Deceased c 1953 1961/I

Physics See ILC

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

KATS, B. Ya.; PAVLENKO, A.M.

Diseases of workers exposed to styrene. Trudy Vor. med. inst. 47:73-75 '62 (MIRA 16:12)

1. Profpatologicheskoye otdeleniye 3-y klinicheskoy bol'nitsy g. Voronezha i Mediko-sanitarnaya chast' zavoda sinteticheskogo kauchuka im. S.M.Kirova.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A.M., fel'dsher

Treatment of burns at the feldsher-midwife center. Fel'd. i akush. 24 no.5:46-47 My '59. (MIRA 12:8)

1. Preobrazhenskiy fel'dshersko-akusherskiy punkt Stalinskoy oblasti.

(BURNS AND SCALDS)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A.N., inzh.; GALKIN, Ye.G., inzh.

Launch with a jet-propulsion engine. Sudostroenie 29 no.3:39 Mr '63. (MIRA 16:4)
(Motorboats—Water jet engines)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A.P., inzh.

Combination of diversified operations in mass-production shops. Vest. mashinostr. 43 no.6:70-72 Je '63. (MIRA 16:7)

(Industrial management)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A.S.; VAYNSHTEYN, E.Ye.; SHEVALEYEVSKIY, I.D.

Hafnium and zirconium ratio in zircons of igneous and metasomatic rocks. Geokhimiia no.5:351-367 '57. (MIRA 12:3)

1. V.I. Vernadskiy Institute of Geochemistry and Analytical Chemistry, Academy of Sciences, USSR, Moscow.
(Tuva Autonomous Province--Zircon)
(Hafnium) (Zirconium)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

3(5)

AUTHORS: Pavlenko, A. S. [illegible] SOV/[illegible]
Kakhana, M. M.

TITLE: On the Nb and Ta Ratio in Some Minerals of Igneous and Metasomatic Rocks (O sootnoshenii Nb i Ta v nekotorykh mineralakh izverzhennykh i metasomaticheskikh porod)

PERIODICAL: Geokhimiya, 1958, Nr 6, pp 5?8 - 569 (USSR)

ABSTRACT: Elements of very similar chemical properties as Nb and Ta, Zr and Hf, TR, Th and U may serve as very sensitive indicators for geological processes. In the case of TR and Zr and Hf investigations were already carried out by the authors (Refs [illegible]). The present paper deals with an investigation of the Nb/Ta ratio in minerals from the district of Vostochnaya Tuva (E[illegible]skiy [illegible], Aksugskiy [illegible], Orugtinskiy [illegible], Balyatygkhemskiy [illegible], Terakhol'skiy [illegible], Agsalskiy [illegible], Dagdinskiy [illegible], Kilmayskiy [illegible], Ulugtaygskiy [illegible], Zhinkhemskiy [illegible], Bayankol'skiy [illegible], Khuso[illegible]skiy [illegible]). An X-ray structure analysis was made of [illegible] samples of columbite, fergusonite, euxenite, pyrochlore and microlite. Most of the samples came from the Tuvinskiy [illegible] Instituta

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

On the Nb and Ta Ratio in Some Minerals of Igneous and Metasomatic Rocks SOV/[illegible] 58 [illegible]

geokhimii i analiticheskoy khimii im. V.I. Vernadskiy Akademii nauk SSSR (Department Twice of the Institute of Geochemistry and Analytical Chemistry imeni V.I. Vernadskiy AS USSR some were put at the author's disposal by V. I. Kudrin, Yu. V. Makhin and I. A. Nekhayeva. For X-ray analyses the samples were glued to the anode of the X-ray tube Fig 1, by BSP-2. Nb K_α and K_β as well as Ta L_α were recorded on "Agfa Laue" X ray film and their intensities determined by means of the microphotometer MF-2. A big table shows the results (in the order of the finding place. Table 1 and a graphical survey (in the order of the type of rock Fig 3. Table 2 reveals the upper and lower limit of the Nb/Ta ratio in the individual minerals. Table 4 shows a comparison between the Nb/Ta and the Zr/Hf ratios in zircons from the same samples or from samples which are very close together. The Zr/Hf values are taken from a previous paper (Ref 6). A new analysis was made by [illegible] D. Shcherbakovskiy. From the investigations carried out the following may be concluded: In the investigated rocks the Nb/Ta ratio depends mainly on the formation of magmatism and thus

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on the age of the rock. Younger complexes contain comparatively more niobium. In the minerals of a certain complex the Nb/Ta ratio keeps within the same limits. The alkali content of the rocks has no influence on the Nb/Ta ratio as is the case with the Zr/Hf ratio. Genetical factors influence the Nb/Ta ratio in the same way as the Zr/Hf ratio, however, to a smaller extent. Great changes occur only in the case of euxenites. There are 3 figures, 3 tables, and 6 references, 7 of which are Soviet.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo AN SSSR, Moskva (Institute of Geochemistry and Analytical Chemistry imeni V.I. Vernadskiy, AS USSR, Moscow)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

AUTHOR: Pavlenko, A.S.

SOV/11-59-1-9/16

TITLE: Special Features of Metasomatism in One of the Districts of the Northern Part of the Krivoy Rog Basin (Osobennosti metasomatosa v odnom iz rayonov Severnogo Krivorozh'ya)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959, Nr 1, pp 81 - 101 (USSR)

ABSTRACT: The metasomatic formations in the northern part of the Krivoy Rog basin were for a long time considered to be a result of successive metasomatic processes, and the mineralogic peculiarities of some of the formations were ascribed to specific compositions of metasomatic solutions periodically penetrating these rocks. The author made extensive structural, petrographic and chemical analyses of paragenetic associations of these metasomatic minerals in one of the districts of the northern part of the basin. His findings are based on the following criteria: 1) the general distribution and morphology of separated metasomatic rocks; 2) their correlation with the lithology and the structure of the initial regional metamorphic rocks; 3) the correlation of separated parageneses of metasomatic minerals be-

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Special Features of Metasomatism in One of the Districts of the Northern Part of the Krivoy Rog Basin

tween them: 4) the peculiarities of chemical affinity of separate parageneses of metasomatic minerals; 5) the sequence of replacement of metasomatic minerals and their parageneses by the other minerals; 6) the character of metamorphosis of minerals of variable composition. He came to the conclusion that all metasomatic formations of the district in question occurred by way of a differential transference of the substance of initial rocks as a result of a prolonged action of a single metasomatic solution, only sodium (Na) being added by the hydrothermal action in later stages. The diversity of the metasomatic rocks, their composition, morphology and correlations in the strata were conditioned by the lithology of the initial metamorphic rocks, by the mobility of their components and the tectonic preparation of different parts of the district, which determined the degree of the intensity of metasomatic processes. Detailed chemical anlyses of various rock formations are given. The following geologists are mentioned

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SOV/11-59-1-9/16

Special Features of Metasomatism in One of the Districts of the Northern Part of the Krivoy Rog Basin

by the author: N.F. Anikeyeva, D.S. Korzhinskiy, I.V. Aleksandrov, A.I. Strygin and A.I. Tugarinov. There are 3 tables, 6 photos, 1 scheme and 18 references, 13 of which are Soviet, 1 American, 1 Indian, 1 Japanese, 1 Swedish and 1 South African.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo, Moskva (The Institute of Geochemistry and Analytical Chemistry imeni V.I. Vernadskiy, Moscow)

SUBMITTED: November 21, 1958

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

3(8) SOV/7-59-4-1/9

AUTHORS: Pavlenko, A. S., Vaynshteyn, E. Ye., Turanskaya, N. V.

TITLE: On Some Rules in the Behavior of the Rare Earths and Yttrium in Magmatic and Postmagmatic Processes (O nekotorykh zakonomernostyakh povedeniya redkikh zemel' i ittriya v magmaticheskikh i postmagmaticheskikh protsessakh)

PERIODICAL: Geokhimiya, 1959, Nr 4, pp 291 - 309 (USSR)

ABSTRACT: The Middle Paleozoic syutkhol'skiy granite (γPz_2) and the somewhat younger alkaline rock complex ξPz_2, which has two phases, were investigated in the Vostochno-Tuvinskiy region. The rocks were divided into the following groups: magmatic rocks, pegmatites, autometasomatic rocks, and exocontact metasomatites, highly hydrothermal dikes included. Only minerals with a sufficiently high content of TR were examined so that the latter could be measured immediately by X-ray fluorescence: pyrochlorine, fergusonite, euxenite, "aschynite", parisite, monazite, a mineral of the "cheralite" type, "orthelith", "chevkinite", orthite, and gadolinite, furthermore also thorite, although its content is low. The distribution of the samples to the different rock complexes and

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rock groups is shown in table 1. Totally 61 samples were investigated. The major part was supplied by the Tuvinskiy otryad (Tuva Department) of the Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy AS USSR), furthermore by Yu. V. Makhin, N. Ye. Kostin, V. I. Kudrin, and I. A. Nechayeva. The analysis method was already earlier published (Ref 1). The analysis results are given as quotients $\frac{M}{Nd}$ (M=TR or Y), i. e. in table 2 for the cerium minerals (33 samples), in table 3 for the minerals with cerium earths and yttrium oxides (14 samples), and in table 4 for the minerals with yttrium oxides (14 samples). A linear connection between the quotients of light lanthanides (La - Sm) (Fig 1) exists in cerium minerals. A maximum occurs in the case of Dy (Fig 5) in heavy lanthanides (Gd - Lu); this is a regional peculiarity. The fluctuations in the lanthanide content depend mainly on the age of the rocks, their alkalinity, and the genetic type of the mineral formation. The crystallochemical properties of the minerals determine the interval in the lanthanide series which is assumed in the lattice. The yttrium oxides are enriched towards the end of the

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On Some Rules in the Behavior of the Rare Earths and Yttrium in Magmatic and Postmagmatic Processes SOV/7-59-4-1/9

magmatic process; the nepheline syenites are enriched with cerium earths independently of their age. - Finally the geochemical behavior of Zr - Hf, Nb - Ta, and TR - Y is compared. The analyses necessary for this purpose were carried out by I. D. Shevaleyevskiy in the spektral'naya laboratoriya (Spectral Laboratory) of the institute mentioned in the Association (Table 5). The conditions are, however, very complicated in the case of the rare earths since the cerium earths are more mobile than the yttrium oxides, and yttrium itself is still more mobile than the last mentioned ones. There are 5 figures, 5 tables, and 10 Soviet references.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii AN SSSR im. Vernadskogo, Moskva (Institute of Geochemistry and Analytical Chemistry, AS USSR, imeni Vernadskiy, Moscow)

SUBMITTED: October 23, 1958

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A.S.; SYAO CHZHUN-YAN; MOROZOV, L.N.

Comparative geochemical characteristics of granitoids with accessory tantalum-niobates. Geokhimiia no.2:104-120 '60. (MIRA 13:6)

1. V.I.Vernadsky Institute of Geochemistry and Analytical Chemistry, Academy of Sciences, U.S.S.R., Moscow.
(Columbates) (Granite)

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SHEVALEYEVSKIY, I.D.; PAVLENKO, A.S.; VAYNSHTEYN, E. Ye.

Relation between the behavior of zirconium and hafnium and the petrochemical characteristics of magmatic and alkaline-metasomatic rocks. Geokhimiia no.3:222-230 '60. (MIRA 14:5)

1. V. I. Vernadskiy Institute of Geochemistry and Analytical Chemistry, Academy of Sciences U.S.S.R., Moscow.
(Zirconium)
(Hafnium)
(Rocks, Igneous)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A. S.; TUGARINOV, A. I.; ALEKSANDROV, I. V.

"Geochemical features of alkalinermatasomatic phenomena"

Paper submitted at the International Geological Congress XXI Session-1960 (Reports of Soviet Geologists) Problem No. 1, 15-24 Aug. 61

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L 22594-65 EWT(d)/EWP(k)/EWP(l)
ACC NR: AP6012999 SOURCE CODE: UR/0105/65/000/006/0090/0090

AUTHOR: Alekseyenko, G. V.; Borisenko, N. I.; Voyevodin, I. D.; Drozdov, N. G.; Krayz, A. G.; Man'kin, E. A.; Mayorets, A. I.; Nekrasov, A. M.; Nayashkov, I. S.; Pavlenko, A. S.; Rokotyan, S. S.; Sobolev, A. A.; Syromyatnikov, I. A.; Sapozhnikov, A. V.; Sarkisov, M. A.; Chernichkin, D. S.; Chertin, A. M.

ORG: none

TITLE: S. I. Rabinovich (on the occasion of his 60th birthday)

SOURCE: Elektrichestvo, no. 6, 1965, 90

TOPIC TAGS: electric engineering personnel, electric transformer, hydroelectric power plant

ABSTRACT: The chief specialist of transformer building of the Gosplan (State Planning Commission) USSR, Samuil Isaakovich Rabinovich was born in 1905 in the town of Borisoglebsk of the Voronezh Oblast'. From his student years at the Gosudarstvennyy elektromashinostroitel'nyy institut (State Machine-Building Institute) he already showed interest for power transformers. In the early thirties he designed the first types of domestic Soviet 110 and 220 kV transformers; in 1939 he became the chief designer of the Moskovskiy transformatornyy zavod (Moscow Transformer factory). In 1946, he conducted the design and construction of lightning-resistant transformers; during 1949-1954,

Card 1/2 UDC: 621.314(092)

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he headed the design of the 400 kV transformer equipment for the Volzhskaya hydroelectric power station - Moscow power line; his subsequent work on the 500 kV equipment earned him the Lenin prize. From 1960, he has been working at the Gosplan USSR. He is also a member of the editorial board of the journal Elektrichestvo (Electricity). Orig. art. has: 1 figure. [JPRS]

SUB CODE: 10, 09 / SUBM DATE: none

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

ALEKSEYENKO, G.V.; BORISENKO, N.I.; VOYEVODIN, I.D.; DROZDOV, N.G.; KRAYZ, A.G.; MAN'KIN, E.A.; MAYORETS, A.I.; NEKRASOV, A.M.; NAYASHKOV, I.S.; PAVLENKO, A.S.; ROKOTYAN, S.S.; SOBOLEV, A.A.; SYROMYATNIKOV, I.A.; SAPOZHNIKOV, A.V.; SARKISOV, M.A.; CHERNICHKIN, D.S.; CHERTIN, A.M.

Samuil Isaakovich Rabinovich, 1905; on his 60th birthday. Elektrichestvo no.6:90 Je '65. (MIRA 18:7)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A.S.; ORLOVA, L.P.; AKIMANOVA, M.V.

Cerphosphorhuttonite, a mineral from the monazite group. Trudy Min.muz. no.16:166-174 '65. (MIRA 18:8)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A.S.; OBIOVA, L.P.; AKHMANOVA, M.V.; TOBELKO, K.I.

Thorbastnaesite, thorium fluorocarborate. Zap. Vses. min. ob-va 94 no.1:105-113 '65.

1. Institut geokhimii i analiticheskoy khimii imeni Vernadskogo AN SSSR, Moskva.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

A.S. PAVLENKO (USSR)

"Behaviour of the rock-forming and some ore elements in the processes of alkaline rock ormation."

Report presented at the Conference on Chemistry of the Earth's Crust, Moscow, 14-19 Mar 63.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

ZYKOV, S.I.; STUPNIKOVA, N.I.; PAVLENKO, A.S.; TUGARINOV, A.I.; ORLOVA, L.P.

Absolute age of intrusions in the eastern Tuva region and the Yenisey Range. Geokhimiia no.7:547-560 '61. (MIRA 14:6)

1. V.I.Vernadskiy Institute of Geochemistry and Analytical Chemistry, Academy of Sciences U.S.S.R., and Chair of Geochemistry M.V.Lomonosov State University, Moscow.
(Sangilen range--Rocks, Igneous) (Yenisey Ridge--Rocks, Igneous)
(Geological time)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

VAYNSHTEYN, E.Ye.; PAVLENKO, A.S.; TURANSKAYA, N.V.; YULOVA, T.G.

Effect of the distribution of rare earth elements in rocks on petrochemical factors and its significance for the solution of petrogenetic problems. Geokhimiia no.12:1077-1086 '61. (MIRA 15:3)

1. Vernadskiy Institute of Geochemistry and Analytical Chemistry, Academy of Sciences, U.S.S.R., Moscow.
(Rare earth metals) (Petrology)

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PAVLENKO, A.S.

Third scientific V.I.Vernadskii lecture. Geokhimiia no.6:538 '61. (MIRA 14:6)

(Mineralogy)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

TUGARINOV, Aleksey Ivanovich; PAVLENKO, Aleksey Stefanovich; ALEKSANDROV, Igor' Vasil'yevich; SHCHERBINA, V.V., otv. red.; IVANOV, I.P., red. izd-va; POLYAKOV, T.V., tekhn. red.

[Geochemistry of alkaline metasomatism] Geokhimiia shchelochnogo metasomatoza. Moskva, Izd-vo Akad. nauk SSSR, 1963. 201 p. (MIRA 16:7)
(Metasomatism) (Geochemistry)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A.S.

At the map of the U.S.S.R. in 1980. Tekh. mol. 29 no.12:1-6 '61. (MIRA 15:1)

1. Chlen kollegii Gosudarstvennogo nauchno-ekonomicheskogo soveta Soveta Ministrov SSSR.
(Electrification)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A. S.

AID P - 1240

Subject : USSR/Engineering

Card 1/1 Pub. 110-a - 1/17

Author : Pavlenko, A. S., Minister of Electric Stations

Title : The tasks of power engineers for 1955

Periodical : Teploenergetika, 1, 3-6, Ja 1955

Abstract : The author makes a survey of the progress in power supply and construction in 1954, gives figures of production and consumption, and states the program for 1955.

Institution : None

Submitted : No date

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A. S.

AID P - 2546

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 30/32

Author : Pavlenko, A. S., et. al.

Title : Vasiliy Andreyevich Zakharov (Obituary)

Periodical : Elek sta, 6, 58, Je 1955

Abstract : The article signed by a score of names reports on the death of the manager of the Leningrad Power System. One photo.

Institution : None

Submitted : No date

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

Pavlenko, A S

Subject : USSR/Electricity AID P - 3017

Card 1/1 Pub. 27 - 4/33

Author : Pavlenko, A. S., Vice-Minister of Electric Power Stations of the USSR

Title : 75 years of the journal Elektrichestvo and the development of electrification in the USSR

Periodical : Elektrichestvo, 7, 17-20, Jl 1955

Abstract : The author emphasizes the role of this journal during its 75 years of existence and in particular after the October Revolution, in the development of electrification in the USSR. He gives some data concerning technical achievements in this field.

Institution : None

Submitted : Je 15, 1955

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

AID P - 3785

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 27/29

Authors : Pavlenko, A. S., and several other names

Title : Sergey Tsalikovich Fayerman (deceased)

Periodical : Elek. sta., 10, 62, 0 1955

Abstract : The deceased was the vice-chairman of the Technical Council of the Ministry of Electric Power Stations and Dotsent of the Moscow Power Engineering Institute. The authors give a short description of his activities. One photograph.

Institution : None

Submitted : No date

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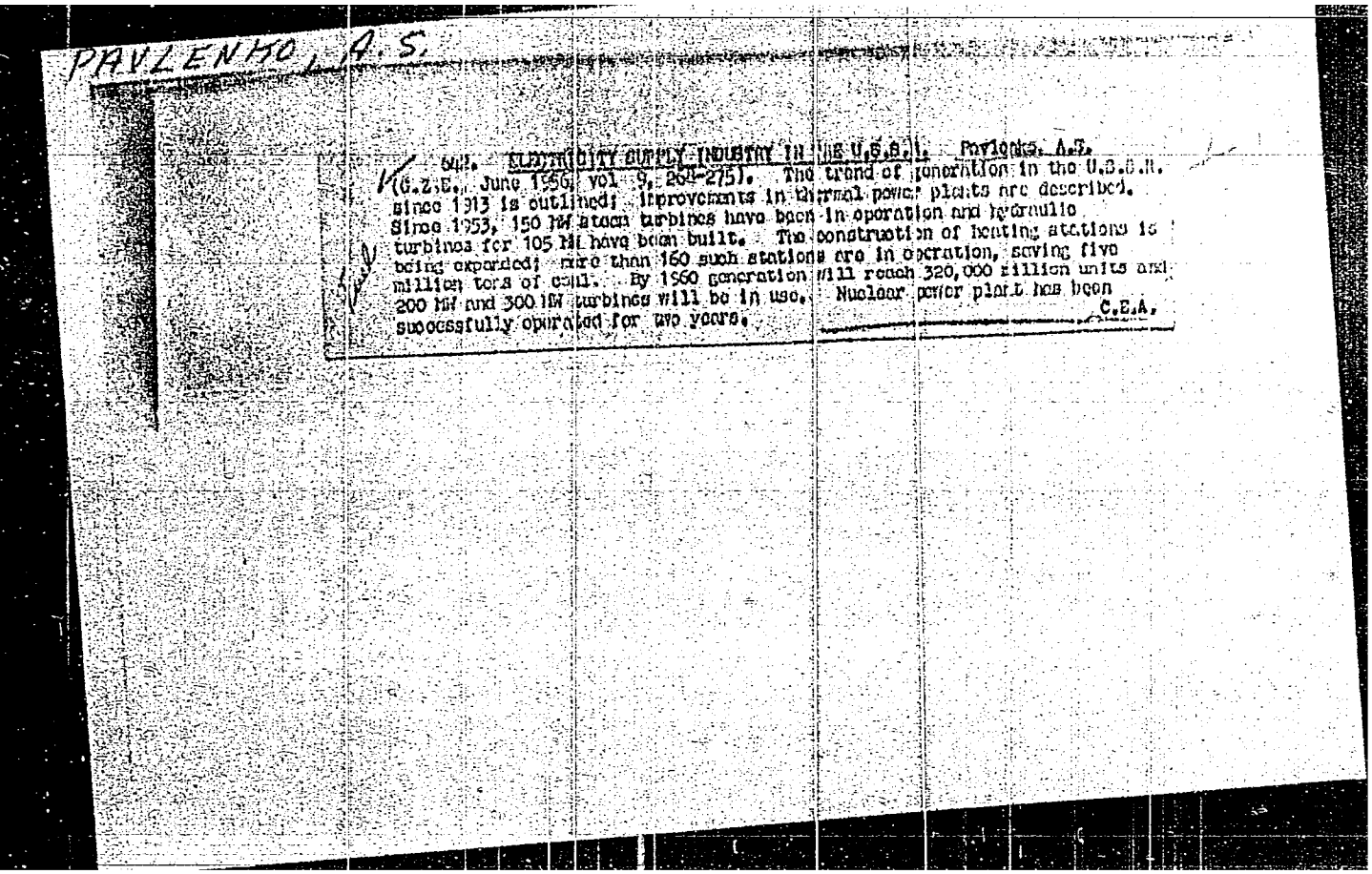

PAVLENKO, A. S.

6(1). ELECTRICITY SUPPLY INDUSTRY IN U.S.S.R. Pavlenko, A.S.
(E.Z.E., June 1956, vol. 9, 264-275). The trend of generation in the U.S.S.R. since 1913 is outlined; improvements in thermal power plants are described. Since 1953, 150 MW steam turbines have been in operation and hydraulic turbines for 105 MW have been built. The construction of heating stations is being expanded; more than 160 such stations are in operation, saving five million tons of coal. By 1960 generation will reach 320,000 million units and 200 MW and 300 MW turbines will be in use. Nuclear power plant has been successfully operated for two years. C.E.A.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PERVUSHIN, M.G.; LOGINOV, F.G.; ZHIMERIN, D.G.; PAVLENKO, A.S.; KULEV, I.A.; DONCHENKO, V.I.; DROBYSHEV, A.I.; DMITRIYEV, I.I.; YERMAKOV, V.S.; SOSNIN, L.A.; PODUSHKIN, A.S.; SMIRNOV, M.S.; TARASOV, N.Ya.; NIKOL'SKIY, G.P.; KRYLOV, N.A.; KOGTEV, G.I.; ACHKASOV, D.I.; VESELOV, N.D.; CHIZHOV, D.G.; UGORETS, I.I.; NIKIFOROV, F.N.; PLATONOV, N.A.

Vladimir Nikolaevich Sergeev; obituary. Elek. sta. 27 no.3:63 Mr '56. (MLRA 9:8)

(Sergeev, Vladimir Nikolaevich, 1903-1956)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

MALENKOV, G.M.; PERVUKHIN, M.G.; KUCHERENKO, V.A.; ZHIMERIN, D.G.; LOGINOV, F.G.; PAVLENKO, A.S.; YERMAKOV, V.S.; VINTER, A.V.; DMITRIYEV, I.I.; UGORETS, I.I.; REKHTIN, N.V.; VOZNESENSKIY, A.N.; VASILENKO, P.I.; BOROVOY, A.A.; NOSOV, R.P.; KRISTOV, V.S.; BELYAKOV, A.A.; RUSSO, G.A.; VASIL'YEV, A.F.; REPKIN, V.P.; TERMAN, I.A; ORLOV, G.M.; CHUMACHENKO, N.A.; BESCHINSKIY, A.A.; YAROSH, V.F.

Pavel Pavlovich Laupman; obituary. Gidr. stroi. 26 no.5:62 My '57. (MIRA 10:6)
(Laupman, Pavel Pavlovich, 1887-1957)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

PAVLENKO, A.S.

Lenin's ideas on electrification come to life. Elek.sta. 28 no.11:2-4 N '57. (MIRA 10:11)

1. Ministr elektrostantsiy. (Electrification)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239520009-0

Pavlenko, A. S.

98-1-1/20

AUTHOR: Pavlenko, A.S., Minister of Electric Power Stations of the USSR

TITLE: Further Development of Power Engineering in the USSR and Projected Constructions of Hydroelectric Power Plants (Dal'neysheye razvitiye energetiki SSSR i perspektivy gidroenergostroitel'stva)

PERIODICAL: Gidrotekhnicheskoye Stroitel'stvo, 1958, # 1, pp 1-7 (USSR)

ABSTRACT: The tremendous growth of USSR industrial production is tied up with the development of electrical resources. The output of electric energy increased from 1.9 billion kwh in 1913 to 209.5 billion kwh in 1957. The established capacity of hydroelectric power plants in 1957 amounted to 9,840,000 kw, whereby the output reached 39.3 billion kwh or 18.7% of the total electric power generated in the USSR. This increase was possible by putting into operation the Kuybyshev Power Plant, which in 1957 reached the rated capacity of 2,100,000 kw, and is capable of operating with an overload of 20%. The future annual output will amount to 11 billion kwh, which will supply the Urals, the Volga and the Central Economic regions.

The following hydroelectric power plants were recently put into operation: the Gor'kiy Plant with a capacity of 400,000 kw, the Kakhovka Plant with a capacity of 312,000 kw, the

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Further Development of Power Engineering in the USSR and Projected Constructions of Hydroelectric Power Plants

Ust'-Kamenogorsk, the Kayrakkum and other plants. Construction of the Irkutsk (660,000 kw), the Novosibirsk (400,000 kw) and other plants is nearing completion. Construction of several high-capacity plants was started, such as the Bratsk on the Angara river with a capacity of 3,600,000 kw, Krasnoyarsk on the Yenisey river with a capacity of 4000,000 kw, the Bukhtarminsk and others. The Kuybyshev Hydroelectric Power Plant employs less than 500 workers, whereas a thermal power plant with the same output would require, including the mining and transportation of coal, more than 30,000 workers.

The author publishes a table showing USSR production figures for iron ore, coal, crude oil, pig iron, steel, electric power, etc. for 1957, for the period covered by 15 years, the percentage of increase up to 1957, and the comparative figures for 1956 in the USA.

In order to meet the USSR power requirements for the year 1972, an output of 900 billion kwh with a capacity of 180 million kw, i.e. an increase of 132 million kw as compared to 1957 has to be obtained. During the period 1959-1965, a united

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power grid of the European part of the USSR will be completed. The total capacity of the electric power plants in 1965 is to exceed 50 million kw. United power grids will also be established for western Siberia with a capacity of 8 million kw, and for eastern Siberia with a capacity of 12 million kw. The linking up of the various grids will permit the large thermal power plants (with capacities of 1.2 to 2 million kw) to be equipped with generator units of 150,000 - 200,000 kw, and in some instances with units of 300,000 kw and more.

To reduce the operational costs of thermal power plants, the greater use of natural gas is planned, especially in the Central Economic Region, the Volga Region and in other districts dependent on shipments of hard coal. Plans call for an increase in the consumption of natural gas from 3.3% in 1956 to 22% by 1972. It has been found that natural gas can be piped economically over distances exceeding 1,000 km. The percentage of generated hydroelectric power will be increased from 15% in 1956 to 24% by 1972. During the next

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Further Development of Power Engineering in the USSR and Projected Construction of Hydroelectric Power Plants

10 - 15 years the main construction work of hydroelectric power plants will be shifted eastward. Besides the hydroelectric power plants at Bratsk and Krasnoyarsk, construction of the Yenisey Hydroelectric Power Plant with a capacity of 6 million kw, the Ust'-Ilim Plant with a capacity exceeding 3 million kw, and the Sayansk Hydroelectric Power Plant with a capacity of 3.5 million kw is intended. The extraordinary low cost of electric power in the Angara-Yenisey district (1 kwh 0.5 - 0.8 Kopecks) offer very favorable conditions for the production of aluminum, magnesium, titanium, electric furnace steel and other products.

Construction of the following hydroelectric power plants are planned in eastern districts: Shul'binsk on the Irtysh river, Kamensk on the Ob' river, Zeysk on the Zeya river, Charvaksk on the Chirchik river, Kapchagaysk on the Ili river, V.-Naryn on the Naryn river and others.

In the European part of the USSR, hydroelectric power resources will be developed at Saratov on the Kamsk-Volga cascade by 1965 and by 1970 at Cheboksary and Nizhne-Kamsk.

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