"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, A.P.

USSR/General Biology, Genetics. B-5

Abs Jour: Ref. Zh.-Biol., No 9, 1957, 35193

Author : Bystrov, B.A., Pavlova, A.P., Falkenburg, E.A.
Inst :
Title : The Quality of Fecundation and the Intensity of the Assimilation and Respiration Processes in Pumpkin and Sunflower Plants

Orig Pub: Fiziol. rasteniy, 1956, 3, No 3, 185-190

Abstract: The intensity of the respiration and photosynthesis of inbred plants of pumpkin and sunflower and mixed variety hybrids was studied. Pumpkins of the Mozolevskaya type and sunflowers of the Fuksink 10 type served in the capacity of the inbred plants, having multiplied by means of self fertilization in the course of several generations. Hybrids of pumpkins were gotten as the result of fertilizing plants of the Mozolevskaya type with a mixture of pollen taken from the Grey Volga and Astrakhan types. Hybrids of sunflower were gotten by fertilizing plants of the

Card : 1/2 -2-

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USSR/General Biology, Genetics.

B-5

Abs Jour: Ref. Zh.-Biol., No 9, 1957, 35193

Fuksink 10 type with the Chernianka 35 type. The hybrids of both types in capacity of development surpassed the plants of the inbred line. It was shown that the intensity of respiration was higher in plants of the inbred line, and that photosynthesis was higher in the hybrids. The excess of the photosynthesis of carbon over its expenditure during the respiration of hybrids was expressed more strongly. The materials were not worked out biometrically and it is therefore difficult to judge on their trustworthiness.

Card : 2/2

-3-

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

BYSTROV, B.A.; PAVLOVA, A.P.; PAL'KENBERG, E.A.

Quality of fertilization and intensity of assimilation and respiration in the pumpkin and sunflower [with English summary in insert]. Fiziol. rast. 3 no.3:185-190 My-Je '56. (MIRA 9:9)

1.Plodoovoshchnoy institut imeni I.V.Michurina, Michurinsk.
(Pumpkin) (Plants--Respiration) (Photosynthesis) (Sunflowers)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, A.S.

Device for marking numbers and graduations on parts.
Mashinostroitel' no.12:25 D '63. (MIRA 17:1)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, A.S., inzh.

New repair method. Vest.Vozd.Fl. no.1:71-72 Ja '60.
(MIRA 13:8)
(Airplanes--Maintenance and repair)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

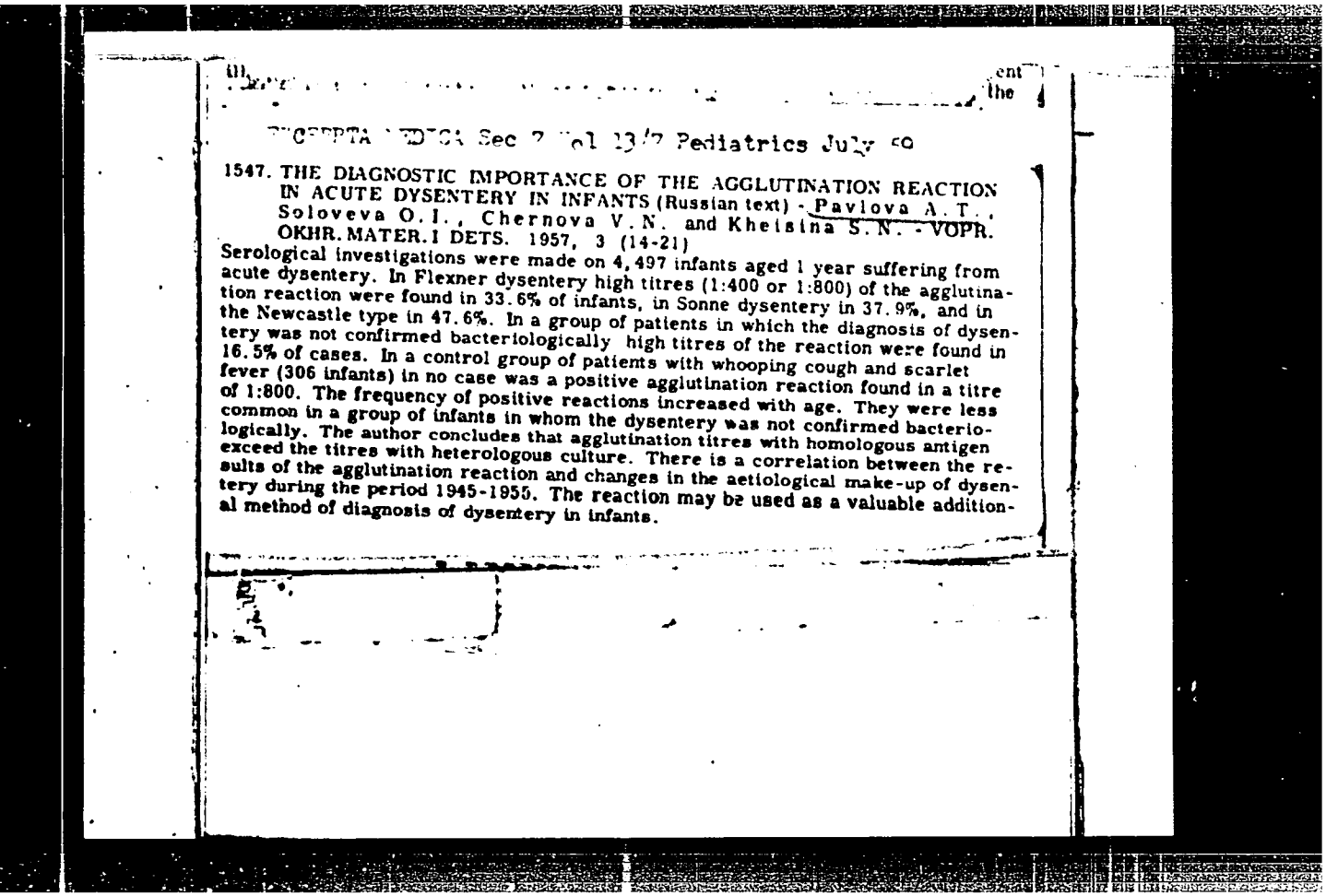
VOROB'YEV, S.I.; PAVLOVA, A.S., red.; FOMICHEV, P.M., tekhn.red.

[Handbook of specifications on the cooling, refrigeration, salting, and smoking of fish] Sbornik tekhnologicheskikh instruktsii po okhlazhdeniiu, zamorazhivaniiu, posolu i kopcheniiu ryby. Moskva, Izd-vo TSentrosoiuza, 1958. 61 p. (MIRA 13:8)

(Fish as food)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239



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the

[illegible] Sec 2 Vol 13/7 Pediatrics July 60

1547. THE DIAGNOSTIC IMPORTANCE OF THE AGGLUTINATION REACTION IN ACUTE DYSENTERY IN INFANTS (Russian text) - Pavlova A. T., Soloveva O. I., Chernova V. N. and Kheisina S. N. - VOPR. OKHR. MATER. I DETS. 1957, 3 (14-21)

Serological investigations were made on 4,497 infants aged 1 year suffering from acute dysentery. In Flexner dysentery high titres (1:400 or 1:800) of the agglutination reaction were found in 33.6% of infants, in Sonne dysentery in 37.9%, and in the Newcastle type in 47.6%. In a group of patients in which the diagnosis of dysentery was not confirmed bacteriologically high titres of the reaction were found in 16.5% of cases. In a control group of patients with whooping cough and scarlet fever (306 infants) in no case was a positive agglutination reaction found in a titre of 1:800. The frequency of positive reactions increased with age. They were less common in a group of infants in whom the dysentery was not confirmed bacteriologically. The author concludes that agglutination titres with homologous antigen exceed the titres with heterologous culture. There is a correlation between the results of the agglutination reaction and changes in the aetiological make-up of dysentery during the period 1945-1955. The reaction may be used as a valuable additional method of diagnosis of dysentery in infants.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, A.V.

Some problems of marine cartography in the field of compiling bathymetric maps. Vest. LGU 19 no.24:153-157 '64 (MIRA 18:1)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, Aleksandra Vasil'yevna; BOGDANOV, K.A., otv. red.; KULAGINA, T.I., red.; ZHUKOVA, Ye.G., tekhn. red.

[Marine charts] Morskie navigatsionnye karty. Leningrad, Izd-vo Leningr. univ., 1961. 179 p. (MIRA 14:9)
(Nautical charts)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, A.V.

Projects of students-cartographers. Vest. LGU 14 no.24:165 '59.
(MIRA 12:12)

(Cartography)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, A.V.

Representation of submarine relief on navigational maps. Vest.LGU 13 no.24:109-111 (MIRA 12:4)
(Ocean bottom--Maps)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

MARGULIS, A.Sh., prof., prepodavatel'; BARNGOL'TS, S.B., prepodavatel';
PAVLOVA, A.V., prepodavatel'; SHCHENKOV, S.A., prepodavatel';
D'YACHKOV, M.F., prepodavatel'; KONDRAT'YEVA, A., red.;
MEDVEDEVA, R., red.; LEBEDEV, A., tekhn.red.

[Economic analysis of the work of an enterprise; based on accounting and reports] Ekonomicheskii analiz raboty predpriiatii; po dannym ucheta i otchetnosti. Avtorskii kollektiv pod rukovodstvom A.Sh. Margulisa. Moskva, Gosfinizdat. Pt.1. 1960. 470 p.
(MIRA 14:3)

1. Vsesoyuznyy zaochnyy finansovo-ekonomicheskiy institut (for Margulis, Barngol'ts, Pavlova, Shchenkov, D'yachkov).
(Industrial management) (Accounting)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

GALANOV, O.P.; SETKINA, O.N.; UR'YAN, R.S.; PAVLOVA, A.Yu.

Quantitative spectral determination of titanium dioxide in rubber compounds. Kauch. i rez. 24 no.5:53 My '65. (MIRA 18:7)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta i zavod "Krasnyy treugol'nik."

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

MYDLIL, F.; PROKHAZKA, Ya. [Prochazka, J.]; KREYZEK, M. [Kreizek, M.]; PAVLOV[illegible], B. (Chekhoslovatskaya Sotsialisticheskaya Respublika)

Results of treating tuberculous patients for the past 20 years (1940-1959). Probl.tub. no.1:60-62 '62. (MIRA 15:8)

1. Iz tuberkuleznoy lechebnitsy v Zhamberge (dir. F. Mydlil) i khirurgicheskoy kliniki v Gradets Kralove (rukovoditel' - prof. Ya. Prokhazka).

(TUBERCULOSIS)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

BENDL, J.; BLEKTA, M.; PAVLOVA, D.; TRNKA, V.; VINSOVA, N.

Fate of children of mothers with late toxemias. Cesk. gynek. 28 no.7:458-462 S '63.

1. II gyn.-por. klin. fak. vseob. lek. KU v Praze, prednosta prof. dr. J. Lukas, DrSc. IV detska klinika fak. vseob. lek. KU v Praze, prednosta prof. dr. F. Blazek III detska klinika fak. vseob. lek. KU v Praze, prednosta prof. dr. O. Vychytil.
(PREGNANCY TOXEMIAS) (ELECTROENCEPHALOGRAPHY)
(VENTRICULOGRAPHY) (PSYCHOLOGICAL TESTS)
(NEUROLOGY) (GENETICS, HUMAN) (INFANT MORTALITY)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

BALIK, J.; PAVLOVA, D.; URBANOVA, S.

Influence of nicotine on secretion of tears in smokers. Cas. lek. cesk. 97 no.50:1553-1555 12 Dec 58.

1. I. ocni klinika Karlovy university v Praze, prednosta prof. dr. E. Dienstbier. J. B., Praha 2, U nemocnice 2.

(LACRIMAL APPARATUS, eff. of drugs on
nicotine on lacrimation in smokers (Cz))
(SMOKING, eff.
on lacrimation (Cz))
(NICOTINE, eff.
same)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

USENKO, V.M., kand.tekhn.nauk; LYASHENKO, N.A., inzh.; PAVLOVA, D.A.

State and standard of work mechanization in constructing apartment houses and public buildings. Opyt stroi. 15:3-42 '58.
(Building machinery) (MIRA 11:11)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

LYASHENKO, N.A., inzh.; PAVLOVA, D.A.

Construction of the Northern Donets-Donets Basin Canal. (MIRA 11:1)
Opyt Stroi. no.8:86-95 '57.
(Donets Basin--Canals)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

KONYUSHOV, A.M., starshiy nauchnyy sotrudnik, kandidat tekhnicheskikh nauk; PAVLOVA, P.A., nauchnyy sotrudnik; SOKOLINSKAYA, L.B., inzhener, nauchnyy redaktor; MUNITS, A.P., redaktor izdatel'stva; MEDVEDEV, L.Ya., tekhnicheskiy redaktor

[Laying pipe lines without trenches] Bestranshseinaia ukladka truboprovodov. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 57 p. (MLRA 10:1)

1. Moscow. TSentral'nyy institut informatsii po stroitel'stvu. 2. TSentral'nyy institut informatsii po stroitel'stvu (for Konyushov, Pavlova)
(Pipe lines)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, D.A.

Earthwork and road machinery. Opyt stroi. no.9:39-52 '57. (MIRA 11:6)

(Road machinery) (Earthmoving machinery)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, D.A.

Building machinery abroad. Biul. stroi. tekh. 13 no.9:35-44 S '56.
(Building machinery) (MLRA 9:11)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, D.A.

Precast reinforced concrete foundations for electric line poles with narrow bases. Biul.stroi.tekh. 13 no.2:11-13 F '56. (MLRA 9:5)

1. TsIINS.
(Electric lines--Poles)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, D.I.

Cranes used for erecting buildings. Biul. stroi. tekh. 14 no.9: 40-46 S '57. (MIRA 10:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'stva Akademii stroitel'stva i arkhitektury SSSR.
(Cranes, derricks, etc.)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, D.I.

Loaders and dump trucks used abroad. Biul.stroi.tekh.13 no.11:44-46 N '56. (MLRA 10:1)

1. TsNIIS Akademii stroitel'stva i arkhitektury SSSR.
(Industrial power trucks)
(Dump trucks)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PROCESSES AND PROPERTIES INDEX

The nature of the dark shadow in photon counters F Pavlova and A Shal'nikov *J. Exptl Theoret. Phys.* (U. S. S. R.) 8, 183 8(1938) The dark-shadow increase on raising the temp. of the cathode is held to be due to thermoelectronic emission of surface impurities on the cathode (K and activated H) F H Rathmann

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

T

COUNTRY : USSR
CATEGORY : Human and Animal Physiology, The Nervous System

ABS. JOUR. : RZhBiol., No. 5 1959, No. 22517

AUTHOR : Pavlova, E.
INST. : ---
TITLE : The Effect of Strong Sound Stimulation on Higher Nervous Activity.

ORIG. PUB. : Zh. vyssh. nervn. deyat-sti, 1957, 7, No. 5, 754--764

ABSTRACT : Among adult mice, which reacted with motor excitation to a loud noise (employed daily for 2 minutes over a 3 to 10 day period), a disturbance was noted in higher nervous activity (conditioned feeding motor reflex responses to auditory and visual stimuli were established by L.I.Kotlyarevskiy's method). Neurosis, manifested in the falling off of all conditioned reflexes and phase phenomena (primarily the paradoxical phase), was noted for 7 to 24 days after the experiments with the loud noise were terminated. Motor excitation

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, E.A., zaslushennaya uchitel'nitsa shkoly RSFSR.

Organizing and conducting classes on a school experimental plot. Politekh. obuch. no.4:28-32 Ap '58. (MIRA 11:3)

1. Shartaval'skaya gorodskaya semiletnyaya shkola Karel'skoy ASSR.
(School gardens)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

KRESHKOV, A. P.; KARATEYEV, D. A.[deceased]; FYURST, V.; PAVLOVA, E. N.

Reactions of dialkyldichlorosilanes and alkyltrichlorosilanes with potassium dihydrophosphate. Zhur. ob. khim. 33 no.1: 261-265 '63. (MIRA 16:1)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva.

(Silane) (Potassium phosphates)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

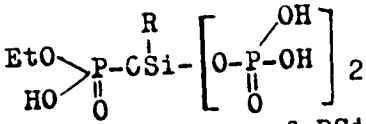
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

S/079/63/033/001/020/023
D204/D307

AUTHORS: Kreshkov, A. P., Karateyev, D. A., Fyurst, V. and Pavlova, E. N.

TITLE: A study of the reactions of dialkyldichlorosilanes and alkyltrichlorosilanes with potassium dihydrogen phosphate

PERIODICAL: Zhurnal obshchey khimii, v. 33, no. 1, 1963, 261-265

TEXT: Compounds  , where R=Me or Et were obtained by the dropwise addition of $RSiCl_3$ in absolute ether to KH_2PO_4/abs. Et_2O, over 1 hour, with cooling. The mixtures were then gently boiled for 3 hours, and the solid products were subsequently refluxed for 7 - 8 hours with abs. alcohol. The solutions were then filtered and the alcohol was removed from the filtrates. The

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products were then dried to constant weight at 100 - 150°C. Compounds $(HO)_2\overset{O}{\overset{\|}{P}}-O-\underset{R}{\overset{R'}{Si}}-O-\overset{O}{\overset{\|}{P}}(OH)_2$ (where (a) R=R'=Me, (b) R=R'=Et, and (c) R=Me, R'=vinyl) were prepared in an anlogous manner, from ethereal KH_2PO_4 and (a) Me_2SiCl_2, (b) Et_2SiCl_2 and (c) $CH_3(CH_2{=}CH)SiCl_2$, except that the refluxing with absolute alcohol was only for 2 hours. The above 5 compounds, which were thus prepared in 85 - 85% yields, are new. Two of the structures were confirmed by ir spectroscopy. There are 2 figures and 2 tables.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev)

SUBMITTED: December 1, 1961

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

GERASIMOV, V.V.; GROMOVA, A.I.; GOLOVINA, Ye.S.; MOSKVICHEV, G.S.; PAVLOVA, E.S.; SMIRNOV, V.V.; SHAPOVALOV, E.T.; PANASENKOVA, Ye.I., red.; MAZEL', Ye.I., tekhn. red.

[Corrosion and irradiation] Korroziia i obluchenie. [By] V.V.Gerasimov i dr. Moskva, Gosatomizdat, 1963. 267 p. (MIRA 16:11)

(Corrosion and anticorrosives)
(Materials, Effect of radiation on)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

AM4036546 BOOK EXPLOITATION S/

Gerasimov, V. V.; Gromova, A. I.; Golovina, YE. S.; Moskvichev, G. S.; Pavlova, F. S.; Smirnov, V. V.; Shapovalov, E. T.

Corrosion and irradiation (Korroziya i oblucheniye), Moscow, Gosatomizdat, 1963, 267 p. illus., biblio. 3,000 copies printed.

TOPIC TAGS: corrosion, irradiation, nuclear reactor, nuclear reactor material, metallurgy, stainless steel, chromium steel, carbon steel, low alloy steel, aluminum alloy, protective coating, electrochemical behavior

PURPOSE AND COVERAGE: The basis of this monograph was the research conducted by the authors in recent years that has been published in the periodical literature and the work of Soviet and foreign authors on the problems of the corrosion resistance of structural materials. The monograph consists of ten chapters in which corrosion and the protection of structural materials used in reactors, the interaction of radiation of the nuclear reactor with a substance and the effect of radiation on the corrosion and electrochemical behavior of metals are examined. The general and systematized material on the corrosion resistance of metals used in reactors will be useful to a wide circle of designers, researchers, and engineers

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AM:036546

concerned with problems of reactor construction. Chapters I, VII, IX, and X were written by V. V. Gerasimov, Chapters II, IV -- E. T. Shapovalov, Chapter III -- A. I. Gromova, Chapter V -- V. V. Smirnov, Chapter VI -- G. S. Moskvichev, Chapter VIII -- F. S. Pavlova and Ye. S. Golovina. The authors express their gratitude to I. Ye. Zimakov for assistance in writing Chapter IX and their associates who participated in the research.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

AM4036546

SUB CODE: ML, NS SUBMITTED: 14Mar63 NR REF SOV:0179

OTHER: 308 DATE ACQ: 07May64

Card 3/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

L 05872-67 EWT(m)/EWP(t)/ETI IJP(c) JD/WB

ACC NR: AP6030863 (N) SOURCE CODE: UR/0365/66/002/005/0545/0549

27
B

AUTHOR: Pavlova, F. S.; Kuznetsova, V. N.

ORG: none

TITLE: Use of multilayer plating for the protection of springs in water at high temperatures and pressures

SOURCE: Zashchita metallov, v. 2, no. 5, 1966, 545-549

TOPIC TAGS: steel spring, corrosion, corrosion resistance, steel hydrogen embrittlement, copper, nickel, chromium plating, /60S2 spring steel

ABSTRACT: The corrosion resistance of variously plated 60S2 steel springs, operating in distilled water at 330C under a pressure of 100 kg/cm^2, has been investigated. The best results were obtained with a three-layer copper-nickel-chromium plating. For instance, spring specimens plated with copper (35 μ), nickel (25 μ) and chromium (1—5 μ) 500 hr tests without showing any sign of corrosion or any other external changes. To reduce the hydrogen absorption during plating, the following recommendations are suggested. Copper plating should be done in ethylenediamine electrolytes and followed by annealing at 300—350C. Nickel plating should be done without luster-forming additives. Orig. art. has: 6 figures and 2 tables. [TD]

SUB CODE: 11, KH 13/ SUBM DATE: 08Jul65/ ORIG REF: 004/ OTH REF: 005

Card 1/1 UDC: 621.357.7/620.197.7

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

DMITRENKO, O.I., PAVLOVA, G.A.

Binding of water by highly disperse deposits. Part 3 : Effect of the structure of the adsorbents, of the extent of hydration, and of the charges of the cations associated with the indicator anion. Koll. zhur 22 no.2:154-158 Mr-Ap '60. (MIRA 13:8)

1. Institut okeanologii AN SSSR, Moskva.
(Adsorption) (Electrolytes)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

68266

15.2120 SOV/81-59-10-34333

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 10, p 71 (USSR)

AUTHOR: Pavlova, G.A.

TITLE: The Investigation of the Dependence of the Transfer Numbers and Electric Conductivity on the Chemical Composition in Glasses Containing Two Different Mobile Ions

PERIODICAL: Tr. Leningr. tekhnol. in-ta im. Lensoveta, 1958, Nr 46, pp 56-74

ABSTRACT: The dependence of the value of the transfer numbers and the electric conductivity of silicate and borosilicate glasses containing $Na_2O + K_2O$ or $Li_2O + K_2O$ on the composition and the temperature has been investigated. The ion character of the conductivity of the glasses containing alkali oxides at temperatures from 300°C to the beginning of the softening temperature has been confirmed. The numbers of transfer for glasses with one alkali oxide are 1 ± 0.01. The dependence of the transfer numbers on the ratio $K_2O : R_2O$ is expressed by an S-shaped curve, the bend of which is different for glasses containing as second oxide Li_2O or Na_2O. At a temperature change of 100 - 170°C the transfer numbers change only by 8 - 10%.

Card 1/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

SPERANSKIY, G.N., professor; GAMBURG, R.L., dotsent; PAVLOVA, [illegible].I., doktor

Combined chemotherapy of pneumonia in infants with a new Russian antibiotic biomycin. Pediatriia no.2:11-17 Mr-Ap '54. (MLRA 7:6)

L. Iz kafedry pediatrii (zav. deystvitel'nyy chlen AMN SSSR prof. G.N.Speranskiy) TSentral'nogo instituta usovershenstvovaniya vrachey (dir.V.P.Lebedeva) na baze detskoy bol'nitsy im.F.E. Dzershinskogo.

(ANTIBIOTICS, therapeutic use,
*biomycin in pneumonia in inf.)
(PNEUMONIA, in infant and child,
*ther., biomycin)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PROCESSES AND PROPERTIES INDEX

Ca

The specific action of dysentery serums of the Shiga and Flexner types. E. I. Pavlova and I. S. Bardovskaya. *Arch. sci. biol.* (U. S. S. R.) 55, No. 1, 45-51 (in English, 51)(1939).—Rabbit serums of the Shiga and Flexner-Hiss types of dysentery are sp., and one cannot be used as a substitute for the other in serotherapeutic practice. S. A. Karjala

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ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G.

Scientific Research Institut of Labor in Sweden. Biul. nauch.inform: trud i zar.plata 3 no.2:65-67 '60.
(MIRA 13:6)
(Sweden--Metal industries)
(Sweden--Labor and laboring classes)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G.

"Berger's rhythm in the brains of the ape." (p. 155) by Pavlova, G.

SO: Advances in Contemporary Biology (Uspekhi Sovremennoi Biologii) Vol. VII, o. 1, 1937.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

DMITRENKO, O.I.; PAVLOVA, G.A.

Chemistry of phosphorus in the sea. Part 1. Trudy Inst. okean. 54:100-114 '62. (MIRA 16:6)
(Sea water--Analysis) (Phosphorus)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G. A.

22648 Pavlova, G. A. I Rolle, S.D. K Voprosv O Vozkeystvii Luchistoy Energii NA Sostab Kamernoy Vlagi Glaza. Trudy Akad. Med. Nauk SSSR, T. IV, 1949, S. 82-87---Bibliogr: 5 Nazv

So: Letopis', No. 30, 1949

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G.A.

22648. PAVLOVA, G.A. K voprosv o vozdeystvii luchistoy energii na sostav kamernoy vlagi glaza. Trudy akad. med. nauk sssr, T. IV, 1949, S. 82-87 bibliogr: 5 nazv

SO: LETOPIS', No. 20, 1949

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

DMITRENKO, O.I.; PAVLOVA, G.A.

Binding of water by finely dispersed sediments. Part 2: Relation between the amount of bound water and the composition and concentration of equilibrium solutions. Koll.zhur. 21 no.4:419-426 Jl-Ag '59. (MIRA 13:8)

1. Institut okeanologii AN SSSR, Moskva.
(Adsorption) (Water)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

L 38695-66 EWP(e)/EWT(m) WH

ACC NR: AP6008275 (A) SOURCE CODE: UR/0080/66/039/002/0452/0453

AUTHOR: Yevstrop'yev, K. K.; Pavlova, G. A.; Pavlovskiy, V. K.

ORG: State Optics Institute im. S. I. Vavilov (Gosudarstvennyy opticheskiy institut)

TITLE: Nature of the conductivity of nonalkaline pyroceramic cordierite systems

SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 2, 1966, 452-453

TOPIC TAGS: electric conductivity, activation energy, magnesium compound, aluminum compound, silicon compound, glass, silicate glass

ABSTRACT: Systems of magnesium-aluminum-silicate glasses containing 0.15% Na_2O were studied to determine the dependence of electrical conductivity on temperature and to measure the diffusion coefficient of Na in the systems. Comparison of experimental data with the Einstein correlation is given as follows:

$$X_{Na^+} = \frac{D \cdot N \cdot (ze)^2}{\alpha kT}$$

where X and D are the electrical conductivity and diffusion coefficients of Na^+; N is the number of Na^+; z is the valence of Na^+; e is the charge on the electron; k is the Boltzmann constant; T is the temperature; and α is the correlated ionic factor. Radioactive Na^{22} was used as a tracer in the measurement of D for Na^+. Electrical conduc-

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

ACCESSION NR: AT4019304 S/0000/63/003/001/0141/0145

AUTHOR: Pavlova, G. A.; Skornyakov, M. M.; Chistoserdov, V. G.

TITLE: An investigation of the electrical properties of some glasses and glassy-crystalline materials based on the lithium oxide-aluminum oxide-silicon dioxide system

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vy*p. 1: Katalizirovannaya kristallizatsiya stekla (Vitreous state, no. 1: Catalyzing crystallization of glass). Trudy* simpoziuma, v. 3, no. 1. Moscow, Izd-vo AN SSSR, 1963, 141-145

TOPIC TAGS: glass, glassy-crystalline material, lithium glass, lithium aluminosilicate, photosensitivity, insulation, dielectric loss, electrical property

ABSTRACT: The electrical insulating properties of glassy-crystalline materials obtained from photosensitive glasses of the Li_2O-Al_2O_3-SiO_2 system can be increased considerably by decreasing the Al_2O_3 concentration and replacing SiO_2 with BaO, SrO, and CaO. After crystallization, the dielectric loss of lithium aluminosilicate glasses can decrease, increase, or remain the same as in the original glass, if the lithium ions are contained in the composition of the crystalline phase. The specific resistance of the crystalline material, however, is always

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

ACCESSION NR: AT4019319 S/0000/63/003/001/0184/0190

AUTHOR: Pavlova, G. A.; Chistoserdov, V. G.

TITLE: An investigation of the electrical properties of some non-alkaline, glassy-crystalline materials as a function of the composition and conditions of thermal treatment

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vy*p. 1: Katalizirovannaya kristallizatsiya stekla (Vitreous state, no. 1: Catalyzing crystallization of glass). Trudy* simpoziuma, v. 3, no. 1 Moscow, Izd-vo, AN SSSR, 1963, 184-190

TOPIC TAGS: glassy-crystalline material, electrical property, crystalline phase, heat treatment, glass crystallization, dielectric loss, glassy phase

ABSTRACT: Glassy-crystalline materials of the $MgO-Al_2O_3-SiO_2-TiO_2$ and $BaO-B_2O_3-Al_2O_3-SiO_2$ systems were investigated with respect to their electrical properties. These properties were found to depend on the different conditions of thermal treatment. Glasses crystallized at temperatures of 800, 950, 1100 and 1200C were maintained for 4-7 hours at the same temperatures before investigation of the dielectric loss over a wide range of frequencies. The results showed that the tgδ of the glassy-crystalline materials can be greater or smaller than that of the

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

ACCESSION NR: A74019319

initial glasses. The specific resistance of the non-alkaline glass samples after crystallization either remained equal to the resistivity of the initial glass or decreased considerably. Both residual glassy and crystalline phases could exert a predominant effect on the nature of the variation in the electrical properties of glassy-crystalline materials. The change in the electrical properties of glassy-crystalline materials due to the conditions of thermal treatment leads to the assumption that the structure of glassy-crystalline materials also influences their electrical properties. Orig. art. has: 5 figures.

ASSOCIATION: none

SUBMITTED: 17May63 DATE ACQ: 21Nov63 ENCL: 00

SUB CODE: MT NO REF SOV: 004 OTHER: 001

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

SHISHKINA, O.V.; PAVLOVA, G.A.

Distribution of iodine in marine and oceanic silts and silt waters. Geokhimiia no.6:739-746 Je '65. (MIRA 18:7)

1. Institut of Oceanology, Academy of Sciences, U.S.S.R., Moscow.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

YEVSTROP'YEV, K.S.; PAVLOVA, G.A.

Methods for determining transference numbers in solid glasses containing two different mobile ions. Trudy LTI no.46:49-55 '58. (MIRA 14:4)

(Glass research) (Ions—Migration and velocity)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G.A.

Transference numbers and electric conductivity as a function of the chemical composition of glasses containing two different mobile ions. Trudy LTI no.46:56-74 '58. (MIRA 14:4)
(Glass research) (Ions—Migration and velocity)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

SMORCHKOV, I.Ye.; PAVLOVA, G.A.

Lode rocks from the Gavasay River region (Kurama Ridge) and some characteristics of the distribution of accessory minerals in them. Trudy IGEM no.21:186-197 '58. (MIRA 12:1)
(Kurama Ridge--Rocks, Igneous)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G. A.

57-12-3/19

AUTHORS: Mazurin, O. V., Pavlova, G. A., Lev, Ye. Ya., Leko, Ye. K.

TITLE: An Investigation of Silicate Glasses with Electronic Conductivity (Silikatnyye stekla s elektronnoy provodimost'yu)

PERIODICAL: Zhurnal Tekhnicheskoy Fiziki, 1957, Vol. 27, Nr 12, pp. 2702 -2703 (USSR)

ABSTRACT: In the investigations of alkali-free silicate glass conducted here special regard was given to the anomalously high electric conductivity of glass with iron oxydes. The electric conductivity of such glass proved to be higher than that of analoguous glass, which contained a corresponding amount of sodium oxyde instead of iron oxyde. The measurements were conducted with graphite electrodes according to the usual method (reference 7). The character of the conductivity was determined according to the "Tuband-method". Three glass samples, anode, a medium (control) and cathode samples were carefully ground to fit together and mounted between metal disks. A constant voltage was applied to the dicks. A measured amount of current was passed through

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

An Investigation of Silicate Glasses with Electronic Conductivity.

the samples (at about 6000 C), which beforehand were weighed. A judgement can be given on the character of the conductivity by means of the change in weight. The results showed, that in the glass under investigation a practically pure electronic conductivity (experimental error 1 ÷ 2 %) is met with, the magnitude of which is strongly dependent on the Fe_2O_3 content and on the composition of the glass. It is shown, that although the glass sample no. 2 contained only 5 % of Fe_2O_3 it displayed a pure electron conductivity. From this it appears, that the lattice of amorphous boron-aluminium silicate represents no insurmountable obstacle for the electrons. (Glass sample number 2: 45 molar percent of SiO_2, 10 molar percent B_2O_3, 10 molar percent of Al_2O_3, 30 molar percent of CaO, 5 molar percent of Fe_2O_3). It is conjectured, that probably, a partial or total electron conductivity is also characteristic for many silicate and borate glass types free from alkaline contents with a high resistance. There are 1 figure, 2 tables, and 12 references, 7 of which are Slavic.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

An Investigation of Silicate Glasses with Electronic Conductivity. 57-12-3/19

ASSOCIATION: Leningrad Institute of Technology imeni Lensovet (Leningradskiy tekhnologicheskiy inst. im. Lensoveta).

SUBMITTED: April 24, 1957.

AVAILABLE: Library of Congress

Card 3/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

5(4)

SOV/69-21-4-9/22

AUTHOR: Dmitrenko, O.I. and Pavlova, G.A.

TITLE: The Binding of Water by Finely-Dispersed Sediments. 2. The Dependence of the Amount of Bound Water on the Nature and Concentration of Equilibrium Solutions.

PERIODICAL: Kolloidnyy zhurnal, 1959, Vol XXI, Nr 4. pp 419-426 (USSR)

ABSTRACT: This is a study of the water sorption capacity of extramicellar (kaolin) and intermicellar (montmorillonite, beidellite) adsorbents, which are highly-dispersed in equilibrium electrolyte solutions. Sea sediments of the Bering Sea from various depths (95 and 3,400 m) were also investigated. The authors used the anion indicator method. The anions selected for this purpose were Cl^-, Br^-, J^- and SO_4^{2-}. The assumption of mutual exchangeability of adsorbed electrolyte and water molecules was at the basis of the interpretation of the obtained results [reference 5]. The experiments showed a direct dependence of water dipole adsorption by kaolin on the electrolyte concen-

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

The Binding of Water by Finely-Dispersed Sediments. 2. The Dependence of the Amount of Bound Water on the Nature and Concentration of Equilibrium Solutions

tration (graph 1). The position of the curves in graph 1 indicates that the quantity of adsorbed water grows in accordance with the following succession of electrolytes: $NaCl < NaBr < NaJ < Na_2SO_4$. This shows, in addition, a direct dependence of the amount of adsorbed water on the solubility of the electrolytes. The experiments with montmorillonite and beidellite, which belong to the intermicellar type of adsorbents (here sorption takes place prevalently in the interior of the disperse particles, and surface adsorption is negligible), also lead to definite results. The amount of absorbed water, however, was found to be inversely proportional to the concentration of the electrolytes (graphs 2 and 3). The authors explain this circumstance with the growing intensity of molecular exchange in increasingly-concentrated solutions of electrolytes, the latter being capable of displacing water dipoles to the extent of the given adsorbent. Also, an inverse proportion of

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

The Binding of Water by Finely-Dispersed Sediments. 2. The Dependence of the Amount of Bound Water on the Nature and Concentration of Equilibrium Solutions.

the amount of absorbed water to the solubility of sodium halide electrolytes could be observed for the two mentioned minerals. Graphs 5 and 6 illustrate the experiments carried out with the above-mentioned sea sediments. In this case potassium halides were used as electrolytes. For both kinds of sediments an inverse proportion of the amount of absorbed water to the electrolyte concentration could again be observed. The curves, however, also show a succession of absorbed electrolytes, which is inverse to the order established for the montmorillonite and beidellite minerals. As the anions are the same and the one difference consists in the size of the ion radiuses (0.98 Å for Na and 1.33 Å for K), the obtained results can be explained by enlarged measures of the crystal lattices of adsorbents, which compose the sea sediments. The authors mention the scientist Dzh.D. Bernal

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

The Binding of Water by Finely-Dispersed Sediments. 2. The Dependence of the Amount of Bound Water on the Nature and Concentration of Equilibrium Solutions.

[reference 1] in their introductory statements.
There are 6 graphs and 19 references, 9 of which are English, 5 Soviet, 4 German and 1 French.

ASSOCIATION: Institut okeanologii AN SSSR, Moskva (Institute of Oceanology of the AS USSR, Moscow)

SUBMITTED: 1 February, 1958.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

MAZURIN, O.V.; PAVLOVA, G.A.; LEV, Ye.Ya.; LEKO, Ye.K.

Silicate glasses with electron conductivity. Zhur.tekh.fiz. 27 no.12:2702-2703 D '57. (MIRA 12:4)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta.
(Glass--Electric properties)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G. A.: Mech Chem Sci (diss) -- "Investigation of the dependence of the transfer and electroconductivity numbers on chemical composition of glass and temperature". Leningrad, 1958. 16 pp (Min Higher Educ USSR, Leningrad Order of Labor Red Banner Tech Inst im Leningrad Soviet, Chair of Glass Technology), 150 copies (KL, No 6, 1959, 126)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G.A.

Investigation of the nature of the electric conductivity of some nonalkaline glasses. Izv.vys.ucheb.zav.; khim. i khim. tekh. 1 no.5:82-86 '58. (MIRA 12:2)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra tekhnologii stekla.
(Glass--Electric properties)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

SOV/153-58-1-14

5(1, 4), 24(7)

AUTHOR: Pavlova, G. A.

TITLE: Investigation of the Character of the Electric Conductivity of Some Glasses Free of Alkali (Issledovaniye kharaktera elektroprovodnosti nekotorykh besshchelochnykh stekol)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 5, pp 82-86 (USSR)

ABSTRACT: As is known, the alkali-free silicate and borate glasses are the most valuable insulators. When they are moved in a constant electric field it is important to know the ion and electron components of the conductivity. To solve the problem mentioned in the title the author had to obtain borosilicate and lead silicate glasses containing iron and cobalt oxides. Such glass shows the lowest resistance (Ref 20) (Table 1). The experimental results concerning the type of current carrier in alkali-free glasses is given in table 2. The results of measuring the resistance at 150 and 300° are given in table 3. There are no suggestions in publications concerning the electron mechanism of the conductivity of the silicate and borate glasses (Refs 16, 24, 25). The results obtained by the author do not agree

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

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Investigation of the Character of the Electric Conductivity of Some Glasses Free of Alkali

with those of reference 27. At present the author feels una .. to give a theoretical explanation of the conducting mechanism of the glasses investigated. There is not even a general theory for liquid and amorphous semiconductors (Ref 28). Further investigations are required. The author concluded from the results obtained that 1) An electron mechanism of the conductivity was experimentally found in boro-silicate and lead silicate glasses containing iron and cobalt oxides, 2) based upon what was said above an assumption concerning the electron mechanism of the conductivity of lead silicate glass was expressed. Professor K. S. Yevstrop'yev and O. V. Mazurin, Assistant, supervised the work. There are 3 tables and 28 references, 19 of which are Soviet.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta, Kafedra tekhnologii stekla (Leningrad Technological Institute imeni Lensovet, Chair of Glass Technology)

SUBMITTED: October 14, 1957

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G.A.; SKORNYAKOV, M.M.; CHISTOSERDOV, V.G.

Investigating the electric properties of certain types [illegible] and crystalline glass materials on the basis of the system [illegible] - Al_2O_3 - SiO_2. Steklobr. sost. no.1:141-145 '63. (MIRA 17:10)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G.A.; CHISTOSERDOV, V.G.

Investigating the electric properties of certain alkali-free crystalline glass materials depending on their composition and conditions of heat treatment. Stekloobr. sost. no.1:184-190 '63.
(MIRA 17:10)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G.A.; SHISHKINA, O.V.

Method of determining iodine in interstitial waters. Trudy Inst. okean. 67:165-176 '64. (MIRA 17:12)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G.D.; SLAVNIN, G.P.

Ways of improving the quality of molybdenum concentrate. Trudy IPI no.20:88-95 '63.

Dressing of lean, molybdenum ore of the lode type. Ibid.:96-98

(MIRA 18:2)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

SLAVNIN, G.P.; LEONOV, S.B.; PAVLOVA, G.D.

"Flotation" by V.A.Glembotskii, V.I.Klassen, I.N.Plaksin. Reviewed by G.P.Slavnin, S.B.Leonov, G.D.Pavlov. Izv.vys.ucheb.zav.; tsvet. met. 5 no.1:164 '62. (MIRA 15:2)
(Flotation) (Glembotskii, V.A.) (Klassen, V.I.)
(Plaksin, I.N.)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

[illegible], A. [illegible].

Dekabrist Nikolai [illegible] - [illegible] [The Decembrist [illegible], as a historian [illegible]]. [illegible], [illegible]-vo, [1954?] [illegible].

SO: Monthly List of Russian Accessions, Vol 7, [illegible], June [illegible].

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

COUNTRY : USSR
CATEGORY : Meadow Cultivation. L

ABS. JOUR. : RZhBiol., No. 23, 1958, No. 104593

AUTHOR : Pavlova, A. G.
INST. : Tomsk University
TITLE : Natural Hay Fields and Pastures of Ulagan Aymak in Gorno-Altayskaya Autonomous Oblast'.

CRIG. PUB. : Tr Tomskogo un-ta, 1957, 141, 36-38

ABSTRACT : No abstract.

E N D

Card: 1/1

10

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G.G.

SOV/12-91-1-8/22

3(5)

AUTHOR: Abramovich, D.I.

TITLE: Studies of the Joint Expedition of the Novosibirsk Department of the USSR Geographical Society to the Submerged Zone of the Water Reservoir of the Novosibirsk Hydroelectric Power Plant (Raboty kompleksnoy ekspeditsii Novosibirskogo otdela geograficheskogo obshchestva soyuza SSR po issledovaniyu zony zatopleniya i podtopleniya vodokhranilishcha Novosibirskoy gidroelektrostantsii)

PERIODICAL: Izvestiya Vsesoyuznogo geograficheskogo obshchestva, Vol 91, Nr 1, pp 73-77 (USSR)

ABSTRACT: The article describes the results of studies carried out in 1956 by an expedition of the Novosibirsk Department of the USSR Geographical Society, organized on the initiative of the management of the Novosibirsk Hydroelectric Power Plant, to the submerged zone of the water reservoir. This expedition was organized in various sections: 1) V.A. Nikolayev headed the geological-geomorphological section; 2) V.M. Samochkin the hydraulic section; 3) T.T. Popova the hydrobiological section; 4) G.G. Pavlova the geobotanic section;

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

Studies of the Joint Expedition of the Novosibirsk Department of the USSR Geographical Society to the Submerged Zone of the Water Reservoir of the Novosibirsk Hydroelectric Power Plant

5) L.A. Lamin the forest melioration section. G.V. Krylov, A.V. Kuminova and K.A. Sobolevskaya participated in the three last sections as scientific leaders. There are 2 tables and 1 chart.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G.G.

Brief characteristics of vegetation in the region of Novosibirsk Reservoir. Trudy Biol. inst. Sib. otd. AN SSSR no.7:141-161 '61. (MIRA 15:3)

(NOVOSIBIRSK RESERVOIR REGION—BOTANY—ECOLOGY)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G.G.

Pine forests in the forest-steppe and steppe regions of the Ob' Valley. Trudy TSSBS no.6:131-162 '63. (MIRA 17:7)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G.G.

Natural forage lands of the northern forest-steppe as ex[illegible]
by the Toguchin District collective farms. Trudy TSSKS no.[illegible]
397 '63. (MIRA [illegible]

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PEN'KOVSKAYA, Ye.F.; PAVLOVA, G.G.

Alpine meadows of the central Altai. Trudy Biol. inst. Zap.-Sib. fil. AN SSSR no.2:203-235 '56. (MIRA 13:10)
(Altai Mountains--Pastures and meadows)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G.G.

Characteristics of feed supply and ways of its improvement on collective farms of the Chulyshman Valley and Bashkaus Basin. Trudy Biol. inst. Zap.-Sib. fil. AN SSSR no.2:305-333 '56. (MLRA 13:10)
(Chulyshman Valley--Pastures and meadows)
(Bashkaus Valley--Pastures and meadows)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

ANTROPOVA, N.I.; VLASOVA, K.N.; PAVLOVA, G.I.; SAMOKHVALOV, A.V.; SHAROVA, A.V.

High molecular weight polycaproamide. Plast.massy no.7:17-19 '61. (MIRA 14:7)

(Hexanamide)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G. I.

B/[illegible]/61/[illegible]/010/[illegible]
D[illegible]/D306

AUTHORS: Bune, V. I., Gzovskiy, M. V., Zapol'skiy, K. K., Keylis-Borok, V. I., Krestnikov, V. N., Pil'ipovskaya, L. N., Nersesov, I. L., Pavlova, G. I., Rautian, T. G., Reysner, G. I., Riznichenko, Yu. V., and Khalturin, V. I.

TITLE: Methods of the detailed study of seismicity

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 10, 1961, 12-13, abstract 10A144 (Tr. In-ta fiz. Zemli AN SSSR, no. 9, 1960, 327 p.)

TEXT: The Tadzhik complex seismologic expedition was organized with the aim of studying the nature of earthquakes and the conditions of their genesis. The most seismically-active zones of the USSR (Garmo and Stalinabad) were chosen as the work areas. The specific conditions of working and processing the data demanded the development of special systems of observation and methods of interpretation. The large amount of recorded

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D228/D304

Methods of the detailed...

seismic phenomena permitted the use of statistical methods for studying their distribution in space and time; these methods, in their turn, provided the basis for introducing the quantitative indices of the seismicity characteristics of the seismically-active areas. The actual seismic observations were closely coordinated with geologic investigations, and this provided the possibility of exposing the tectonic basis of the seismic phenomena. A general review of the work area is given in Chapter 1, and concise data on major earthquakes are cited together with the general position of the expedition stations. A description of the standard main and auxiliary apparatus used at the stations, and also the layout and description of newly developed equipment--including an automatic seismic station with a magnetic memory--is cited in Chapter 2. The methods developed and utilized in the expedition for studying the crust's structure in the area under investigation from the records of nearby earthquakes are described in Chapter 3. Horizontal and vertical hodographs were constructed. The resulting material enabled the crust to be represented as a one-layer mass

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Methods of the detailed...

with a longitudinal-wave velocity of 6.0 - 6.1 km/sec. At the Mohorovicic boundary, the velocity suddenly changes to 8.0 km/sec. and then somewhat decreases, but at a depth of 300 km it subsequently increases to 9.2 km/sec. These data underlay the construction of isochrone charts used to localize the epicenters and to determine the focal depths. The isochrone charts were constructed with an account of the heterogeneity of the work area's geologic structure and the peculiarity of the seismic stations' location. This enabled the precision of hypocenter localization to be substantially increased, reducing it to 1 - 2 km at the center of the work area's topographic map. In Chapter 4, the definition of the concept of seismic energy at the focus is given, and the basic formulas are derived for its calculation. On the basis of experimentally obtained laws for the dying out of energy with distance, nomographs were constructed to determine practically the energy at the focus from the records of nearby earthquakes. Appraisal of the precision of calculation of the energy in relation to different factors shows that it may be determined accurately to the order of its magnitude. In this connection, the value K = 15 E j.

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Methods of the detailed...

is introduced for characterizing the energy class of earthquakes. The value of K is compared with the earthquake magnitude M. The study of the iso-energy lines shows that the different degrees of the dying out of seismic energy along and across the strike of geologic structures exert a decisive influence on the form of the isoseisms. In Chapter 5, the frequencies of seismic vibrations are studied--in relation to the earthquake energy, the distance from the source, the geologic conditions at the point of observation and at the hypocenter, etc.--from recordings at both the customary stations and a special ЧИСС (ChISS) seismic-station intended for frequency analysis of seismic waves directly at their place of registration. A detailed description is given for the frequency-selective seismic-station ЧИСС-1954 (ChISS-1954) and for the results of the investigation of its recordings. Certain epicentral zones with an anomalous frequency are thereby revealed. The procedure for theoretically calculating the focal characteristics, and also for appraising these latter from empirical data, is given in Chapter 6. Several formulas are

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cited for determining the size of a focus in relation to its energy on the basis of different physical propositions. The dynamic parameters of the foci are determined; there appear to be definite predominant directions for both the strike and dip of the fracture planes. The characteristics of the seismic conditions of the Garmo and Stalinabad seismically-active regions--both as a whole and in individual areas--are quoted together with the variations in the parameters of the conditions in time. The quantitative expression of the seismicity during constant seismic conditions is determined by the seismic activity. The possibility is shown of constructing graphs of the recurrence of earthquakes from short observations of weak shocks, and methods are given for determining the period required to obtain the parameters of the seismic conditions with a pre-set precision in relation to the energy of the recorded earthquakes. The statistical constancy of the seismic conditions is determined by the so-called measure of dispersion of the frequency of earthquakes. A brief description of the area's stratigraphy and the history of its geologic development is given in Chapter 8. The structural schemes and descriptions of the most important

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deep faults are cited. The contemporary structure of the Garmo area is depicted as two main regions: the alpine geosynclinal zone in the south and the activated epi-Hercynian platform in the north. In section, it is drawn as several steps of Paleozoic basement adjoining each other along deep faults. A comparison of the seismicity with the tectonics of the study areas is made in Chapter 9. The construction of maps of isolines of seismic activity and gradients of the rate of tectonic movements is recommended for appraising the connection between the seismicity and the tectonics. Methods are cited for constructing such maps. The congruence between these magnitudes is established for the regions under investigation, and areas with the maximum gradient values correspond to those with the highest values of seismic activity. 272 references. [Abstracter's note: Complete translation.]

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

L 20805-66 EWP(j)/EWT(m)/T IJP(c) RM/WW

ACC NR: AP6005944 (A) SOURCE CODE: UR/0191/66/000/002/0008/0009

AUTHORS: Vlasova, K. N.; Antropova, N. I.; Dobrokhotova, M. K.; Pavlova, G. I.; Lyadysheva, Ye. K.

ORG: none

TITLE: Copolymers of ε-caprolactam and mixture of isomers of C-methylcaprolactam

SOURCE: Plasticheskiye massy, no. 2, 1966, 8-9

TOPIC TAGS: copolymerization, elasticity, lactam, isomer, copolymer, solid mechanical property, elasticity

ABSTRACT: A mixture of isomers of C-methylcaprolactam (I), b.p. 124-126C/5--6 mm, was copolymerized with ε-caprolactam in the presence of alkaline (metallic sodium) or acid (orthophosphoric acid) catalysts. Physical and mechanical properties were investigated. Melting point and specific viscosity of the copolymer are lowered with increased proportion of I, as illustrated in Fig. 1. Copolymers containing more than 40% of I are soluble in alcohol and can be used for preparation of films. The product is more highly elastic than polycaprolactam. It can be manufactured from the melt by a continuous method on machines used for manufacturing film PK-4, making its production even more attractive.

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L 20805-66

ACC NR: AP6003944

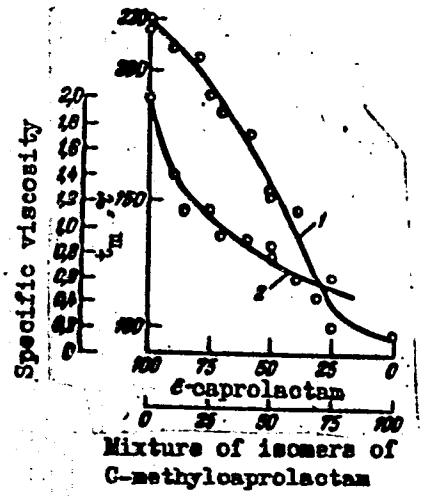

Fig. 1. Melting point t_m and specific viscosity of copolymers as functions of the ratio of ε-caprolactam and mixture of C-methylcaprolactam (weight %); 1 - melting point; 2 - specific viscosity.

Orig. art. has: 1 table and 2 figures.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 002

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

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KUKHTIKOVA, T.I.; FRANTSUZOVA, V.I.; YEFERINA, G.P.; ABRAMOVICH, I.B.; PAVLOVA, G.I.

Prevailing periods of surface waves. Dokl. AN Tadzh. SSR 6 no.3:17-21 '63. (MIRA 17:4)

1. Institut seysmostoykogo stroitel'stva i seysmologii AN Tadzhikskoy SSR. Predstavleno chlenom-korrespondentom AN Tadzhikskoy SSR R.B.Baratovym.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

KEYLIS-BOROK, V.I., PAVLOVA, G.I.

Generalization of data on the mechanism of earthquakes. Trudy Inst. fiz. zem. no.11:121-132 '60. (MIRA 13:8)
(Earthquakes)

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PAVLOVA, G.I.

PHASE I BOOK EXPLOITATION SOV/4490

Akademiya nauk SSSR. Institut fiziki Zemli

Voprosy teoreticheskoy seysmologii i fiziki nedr (Problems in the Theory of Seismology and Physics of the Earth's Interior) Moscow, 1960. 1?? p. (Series: Its: Trudy, no. 11 (178)) Errata slip inserted. 1,700 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut fiziki Zemli imeni O. Yu. Shmidta

Resp. Ed.: V.A. Magnitskiy, Doctor of Technical Sciences; Ed. of Publishing House: V.A. Kalinin; Tech. Ed.: S.G. Tikhomirova.

PURPOSE: This collection of articles is intended for astrophysicists, geophysicists, and seismologists.

COVERAGE: This issue of the Transactions of the Institute of Physics of the Earth imeni O. Yu. Shmidt contains articles on theoretical problems in seismology and on recent investigations in the field of earthquake mechanics. Four out of fourteen articles in the collection have been abstracted. References accompany individual articles.

Lyubimova, Ye. A. Heat Transport by Excitons in the Earth's Mantle ..

Magnitskiy, V.A. Problem of Interpretation of Principal Irregularities of the Gravitational Field of the Earth 79

The author discusses the basic deviations of the earth's gravitational field from the normal values, and reports on the calculation of the densities of the equivalent layer made by the well-known Helmert formula in order to evaluate the magnitude of the disturbing masses. It is pointed out that similar calculations made by E. Heiskanen and L. Tanni in 1951 [ref. given] are not entirely acceptable since they are based on geoid altitudes obtained by L. Tanni in 1948 [ref. given].

The present article gives values of equivalent layer density ... every ten-degree sector from data by I.D. Zhongolovich. The ... shown graphically. The error in the calculation of equivalent density is 10% of the maximum value. The errors in geoid elevation ... much smaller. Several theories as to the nonuniform mass distribution ... the mantle are advanced. The author concludes that uneven distribution ... radioactive elements in the earth, causing temperature variations ... solid mantle, nonuniform mass distribution, and other factors ... cause of extensive perturbations in the gravitational field.

...itsyn, V.P. Transition of Solid Helium to the Metallic Phase Under High Pressures 86

...ark, B.M. Some Functional Methods in the Ideal Linear Theory of ...ticity 90

...lia Borok, V.I., and O.I. Pavlova. Generalization of Data on the Mechanism of Earthquakes 121

A method for reducing the characteristics of observations to generalized parameters of the mechanics of earthquakes is di... Analysis was made of systems of observations for the ... Northern Tyan'-Shan', the Caucasus, and for the region situated northwest of the Bol'shoy Balkhan mountain range (Turkmeniya). The authors conclude that the method described is cumbersome, but that it is justified by the resulting simplification of nodal line plotting for which there have been no formal rules. The results of this study, based on observations of the Tadzhikskaya Kompleksnaya Seysmologicheskaya ekspeditsiya (Tadzhik Combined Seismological Expedition) network of stations, and on data from the literature, indicate that without preliminary analysis of a ... of observations there is no reason for overall study in a new region of the mechanics of earthquakes, or the mass processing of any system of observations for any purpose whatsoever. The principle at the base of the proposed method for studying the prevalent strikes and dips, shifts of discontinuities, etc., can be applied in the solution of a number of other problems. No personalities are mentioned.

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ANTROPOVA, N.I.; VLASOVA, K.N.; PAVLOVA, G.I.; SAMOKHVALOV, A.V.; SHAROVA, A.V.; PARLASHKEVICH, N.Ya.

Study of the anion polymerization of epsilon-caprolactam by the changes in the melt resistance. Plast. massy no.1:12-14 '65. (MIRA 18:4)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G.I.

PHASE I BOOK EXPLOITATION SOV/5096

Bune, V. I., M. V. Gzovskiy, K. K. Zapol'skiy, V. I. Keylis-Borok, V. N. Krestnikov, L. N. Malinovskaya, I. L. Nersesov, G. I. Pavlova, T. G. Rautian, G. I. Reysner, Yu. V. Riznichenko, and V. I. Khalturin

Metody detal'nogo izucheniya seysmichnosti (Methods of Detailed Seismic Research) Moscow, Izd-vo AN SSSR, 1960. 327 p. No. of copies printed not given. (Series: Akademiya nauk SSSR. Institut fiziki zemli. Trudy, vyp. 9 [176])

Resp. Ed.: Yu. V. Riznichenko, Corresponding Member AS USSR; Ed. of Publishing House: S. I. Mosarskiy; Tech. Ed.: O. G. Ul'yanova

PURPOSE: This book is intended for geophysicists, particularly seismologists.

COVERAGE: The book summarizes the principal results of the work of the TKSE Instituta fiziki zemli AN SSSR (Tadzhik Complex Seismological Expedition of the Institute of Physics of the Earth of the AS USSR) and the Institut seysmologii AN Tadzhikskoy SSR (Institute of Seismology of the AS Tadzhik SSR) during the period 1955-1957. Among the topics discussed are: seismic apparatus used, new methods for determining the coordinates of earthquake

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Methods of Detailed Seismic Research SOV/5096

foci, detailed methods for determining the structure of the earth's crust, some results of these determinations, methods of determining seismic energy on the basis of a series of criteria, analysis of dominant frequencies, the use of frequency-selective apparatus, a general description and analysis of seismic conditions in the Garm and Stalinabad areas, the geological structure of the Garm region and the history of its development, and a comparison of the spatial distribution of seismicity and the geological and tectonic structure of the area. The Foreword mentions Academician G. A. Gamburtsev [deceased] who laid the foundations for this work when he was director of the TKSE. The individual chapters of the book were written by: Introduction and Chapter 1 — I. L. Nersesov and Yu. V. Riznichenko; Chapter 2 — I. L. Nersesov, Chapter 3 — I. L. Nersesov and T. G. Rautian; Chapter 4 — T. G. Rautian; Chapter 5 — K. K. Zapol'skiy and V. I. Khalturin; Chapter 6 — V. I. Keylis-Borok, L. N. Malinovskaya, G. I. Pavlova, and V. I. Khalturin; Chapter 7 — V. I. Bune, I. L. Nersesov and Yu. V. Riznichenko; Chapter 8 — M. V. Gzovskiy, V. N. Krestnikov, and G. I. Reysner; Chapter 9 — V. I. Bune, M. V. Gzovskiy and I. L. Nersesov. There are 272 references: 185 Soviet, 73 English, and 14 German.

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Methods of Detailed Seismic Research SOV/5096

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G. I.

Changes in the stress field resulting from earthquakes. Trudy Inst. fiz. zem. no.11:148-154 '60. (MIRA 13:8)
(Strains and stresses) (Earthquakes)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

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S/191/61/000/007/004/010
B101/B215

15.8080

AUTHORS: Antropova, N. I., Vlasova, K. N., Pavlova, G. I., Samokhvalov, A. V., Sharova, A. V.

TITLE: High-molecular polycaproamide

PERIODICAL: Plasticheskiye massy, no. 7, 1961, 17-19

TEXT: At present, polycaproamide is synthesized in industry by hydrolytic polymerization. The process takes 16-18 hr at 250°C. The polymer has an intrinsic viscosity of 0.6-0.8 and contains 10-12 % of substances soluble in water. The polymerization of caprolactam in the presence of alkaline catalysts was studied on the basis of western publications. The authors aimed at stabilizing the viscosity of the polymer. 1) Polymerization in the presence of metallic sodium or KOH (US Patent 2251519 (1941)). In the presence of these catalysts, commercial caprolactam polymerizes at 220°C. The reaction is exothermic and takes no more than 10-15 min. A 0.5 % solution of the obtained polymers in tricresol had an intrinsic viscosity of 1.8-3.0. The impact strength varied between 80 and

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B101/B215

High-molecular polycaproamide

133 kg·cm/cm^2, and the Brinell hardness between 7.8 and 13.5. After casting under pressure, the impact strength was reduced. The polymers were thermally unstable, and their intrinsic viscosity during heating was reduced to 250-260°C. Stabilization according to the patent was not successful. The granulated polymers were therefore treated with dilute mineral acid (dilute acetic acid showed no stabilizing effect) and washed. After heating up to 250-260°C subsequent polycondensation and formation of a network occurred. To eliminate the action of the residual mineral acid, the granules were treated with dilute NH_3. After that, the intrinsic viscosity of the polycaproamide heated up to 250-260°C remained stable for 4-6 hr (0.81). This polymer was suited for extruding and other processes. Now, the impact strength was 125-155 and the Brinell hardness 12.7-15.2. A unit for continuous production of 4 kg of polycaproamide per hr was designed. 2) On the basis of papers by O. Wichterle, Sebenda et al. (Makromol. Chem. 35, 174, (1960) Czechoslovakian Patent 93016 (1957)), acetyl caprolactam (ACL) was used as a co-catalyst besides Na or KOH. The physico-mechanical properties of the polymers depended upon the ratio of the catalyst components. With KOH/ACL = 2:1 the intrinsic viscosity was 2.07-3.1, the impact strength 150-160, and the Brinell hardness 24.0-26.0.

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High-molecular polycaproamide

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B101/B215

For KOH/ACL = 1:1 the corresponding values are 1.3-2.05, 100-125, 15-17, respectively; for KOH/ACL = 2:3: 0.9-1.1, 86-96, 9-10. For Na/ACL = 2:1: intrinsic viscosity 2.11-3.36; impact strength 110-160; Brinell hardness 24-26.6; and for Na/ACL = 1:1: 2.19-2.23, 125-135, 11.0-17.0. Polymerization was conducted in molds of aluminum, galvanized iron, stainless steel, or aluminum foil. Stainless steel proved to be most suitable. Cogwheels very resistant to abrasion were made from polymers by mechanical processing. In the presence of reinforcing material such as metal plates (Al, Fe, Cu, and steel), graphite, molybdenum sulfide, ceramics, microlite, fluoroplast-4, 45-50 % glass fiber or glass fabric, the course of polymerization was normal and the metal inserts in the ready-made block were well fixed due to considerable shrinkage (5 %). 3) On the basis of a paper by S. Chrzczonowicz (Makromol. Chem., 38, 159 (1960), Polish Patent 41536 (1958)) the polymerization of caprolactam was examined in the presence of Na and CO_2. Also in this case, the polymerization took place below the melting point of the polymer. Time of reaction: 35-60 min; yield of the polymer: 85-90 %; viscosity: 2.0-4.5; melting point: 215-225°C; impact strength: 140-165 Brinell hardness: 15.5-22.5. The polymer differed largely from that obtained by ACL addition. There are 3 tables

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High-molecular polycaproamide

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B101/B215

and 5 references: 3 Soviet-bloc and 2 non-Soviet-bloc.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOVA, G. K., Cand. Tech. Sci. (diss) "On Equilibration of City Triangulation Nets," Moscow, 1961, 19 pp. (Moscow Inst. of Land-use Engineers) 200 copies (KL Supp 12-61, 271).

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396