AKISHIN, P.A.; VILKOV, L.V.; SOKOLOVA, N.P.

Electronographic analysis of the structure of molecules of monochloro and monobromodimethyl ethers. Izv.Sib.otd.AN SSSR no.5:59-65 '60. (MIRA 13:7)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova i Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.
(Methyl ether) (Electron diffraction examination)

BALANDIN, A.A.; SOKOLOVA, N.P.

Catalytic properties of sodium-tungsten bronzes, which are defective structures. Probl. kin. i kat. 10:363-368 '60.
(MIRA 14:5)

1. Institut organicheskoy khimii AN SSSR.
(Bronzes) (Catalysts)

20937

S/062/61/000/003/003/013
B117/B208

5 11190 1209

AUTHORS: Balandin, A. A., Sokolova, N. P., and Simanov, Yu. P.

TITLE: Niobium and tantalum pentoxides as dehydration catalysts

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, no. 3, 1961, 415-424

TEXT: The authors studied the dehydration kinetics of isopropyl alcohol on niobium and tantalum pentoxides. The experiments with Nb_2O_5 samples were carried out in a catalytic continuous-flow device (Ref. 3: A. A. Balandin and A. A. Tolstopyatova, Zh. fiz. khimii 30, 1367, 1956) in a temperature range of 360°-400°C and at a flow rate of the alcohol of 0.15 ml/min. The volume of the catalyst was 2 ml, and the volume rate of the alcohol 4.5 hr^{-1}. The activity of Nb_2O_5 was found to depend on temperature and calcination time of the oxide during its formation from metal. Experiments disclosed that the most active Nb_2O_5 samples are obtained by calcination of metallic niobium at 530° within 1-2 hr. Although the formation rate of the oxide depends on the form (powder,

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filings, larger parts) of the metal used, and the individual experiments with Nb_2O_5 provide no comparable results, the catalyst is active in any case. Activity is maintained for some time, e.g., for ten hours without regeneration. X-ray phase analyses carried out with a "Феникс" (Feniks) tube of the БСВ (BSV) type with an iron anode at a voltage of 25 kv and a charge of 8 ma disclosed that the catalytically most active form of Nb_2O_5 is a low-temperature γ-modification. The high-temperature modification of Nb_2O_5 is less active. The Nb_2O_5 modification remains unchanged during catalytic dehydration of alcohol. To study the dehydration kinetics of isopropyl alcohol on Ta_2O_5, the same continuous-flow system was used. The experiments were conducted in the temperature range of 336°-382°C at a flow rate of the alcohol of 0.2 ml/min. The volume of the catalyst was 2 ml, and the volume rate of the alcohol 6.0 hr^{-1}. A comparison of the catalytic activity of Nb_2O_5 and Ta_2O_5, prepared at equal temperatures, suggests that Ta_2O_5 is more active than Nb_2O_5 under otherwise equal experimental conditions, particularly in the same temperature range. A lower activation energy corresponds to the higher activity of Ta_2O_5, as

Niobium and tantalum pentoxides...

compared with Nb_2O_5. Nb_2O_5, on the other hand, remains active for a longer time and is better regenerable. The catalysts obtained from pure Nb_2O_5 and Ta_2C_2 may be regenerated by air. The conditions of such a regeneration were studied. At present, the investigations of the effects of temperature and calcination time of Ta_2O_5 on its catalytic activity, and of the effect of these factors on the activity of Nb_2O_5 and Ta_2O_5 with respect to other reactions, especially condensation, are continued.

A. Ye. Agronomov is thanked for determining the catalyst surface by the BET method, and V. M. Akimov for X-ray analysis of Ta_2O_5. The laboratory assistant Z. M. Skul'skaya took part in the experimental work.
R. A. Zvinchuk and A. V. Topchiyev are mentioned. There are 3 figures, 9 tables, and 10 references: 8 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N.D. Zelinskiy, Academy of Sciences USSR). Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

BALANDIN, A.A.; SOKOLOVA, N.P.

Catalytic properties of niobium pentoxide in the vapor phase amination of ethyl alcohol with aniline. Izv. AN SSSR. Otd.khim.nauk no.9:1543-1548 S '61. (MIRA 14:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Niobium oxide) (Ethyl alcohol) (Aniline)

BALANDIN, A.A.; ISAGULYANTS, G.V.; SOKOLOVA, N.P.; ZAKHARYCHEVA, I.I.

Mechanism of propane formation in the decomposition of isopropyl alcohol on vanadium trioxide. Izv. AN SSSR. Otd.khim.nauk no.9:1549-1551 S '61. (MIRA 14:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Isopropyl alcohol) (Propane)

S/192/62/003/003/004/006
D228/D307

AUTHORS: Batsanov, S. S., Grigor'yeva, G. N. and Sokolova, N. P.

TITLE: Optical properties of rare-earth metal oxides. 1. Refractions and infrared spectra

PERIODICAL: Zhurnal strukturnoy khimii, v.3, no. 3, 1962, 339-342

TEXT: Data are cited about the refractive indices, the density indices and the IR-spectra of 15 rare-earth oxides: La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tu, Yb, Lu, and Y. All specimens were prepared from powdered oxides, calcined at 800°C. The indices cannot be used to identify individual rare-earths, since they vary in relation to a sample's mode of preparation and temperature of roasting. The IR-spectra were taken on a UR-10 spectrometer in the region 400 - 800 cm^{-1}. It is concluded that further research on the IR-spectra of rare-earth oxides, maintained at different temperatures, is necessary before the spectroscopic data can be correctly processed. There are 3 figures and 2 tables.

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S/192/62/003/003/004/006
D228/D307

Optical properties of ...

ASSOCIATION: Institut neorganicheskoy khimii CO AN SSSR (Institute of Inorganic Chemistry, Siberian Division, Academy of Sciences, USSR)

SUBMITTED: October 30, 1961

Card 2/2

KAVTARADZE, N.N.; SOKOLOVA, N.P.; LUK'YANOVICH, V.M.; YEVKO, E.I.

Preparation and structure of solid finely dispersed metals for spectral studies. Kin.i kat. 5 no.6:1095-1099 N-D '64.
(MIRA 18:3)

1. Institut fizicheskoy khimii AN SSSR.

ACCESSION NR: AP4034588 S/0076/64/038/004/1004/1005

AUTHOR: Kavtaradze, N. N.; Sokolova, N. P.

TITLE: Infrared spectra of CO chemisorbed on cobalt.

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 4, 1964, 1004-1005

TOPIC TAGS: chemisorption, infrared spectroscopy, carbon monoxide, carbonyl bond, cobalt

ABSTRACT: In this investigation study was made of the surface compounds of CO on cobalt at 20, -78 and -195C. The CO pressure was changed from 1.3 to 10^{-5} mm. In the spectrum of chemisorbed CO absorption bonds were found in 2140, 2070, 1950 and 1820 cm^{-1} regions. In accordance with the adsorption data and in analogy to known carbonyls, the 2070 cm^{-1} band belongs to linear structure and 1950 and 1820 cm^{-1} to the bridge structures of strongly sorbed CO. It is postulated on the basis of experimental data than on Ni and Fe at pressure of CO of the order of 1 - 10 mm one should also observe bands which are characteristic of reversible chemisorption. Orig. art. has: 1 table and 1 figure.

Card 1/2

ACCESSION NR: AP4034588

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences SSSR)

SUBMITTED: 18May63 ENCL: 00

SUB CODE: NP, GC NO REF SOV: 005 OTHER: 003

Card 2/2

KAVTARADZE, N.N.; SOKOLOVA, N.P.

Infrared spectra of carbon monoxide adsorbed on ruthenium, rhodium, and palladium within a wide temperature range. Dokl. AN SSSR 162 no.4:847-850 Je '65. (MIRA 18:5)

1. Institut fizicheskoy khimii AN SSSR. Submitted November 20, 1964.

L 22071-66 EWT(m)/EPF(n)-2/T/EWP(t) IJP(c) JD/WW/JG
ACC NR: AP6008050 SOURCE CODE: UR/0020/66/166/004/0880/0882

AUTHOR: Kuleshov, I. M.; Shishakov, N. A.; Kavtardze, N. N.; Sokolova, N. P. 32 B

ORG: Institute of Physical Chemistry, Academy of Sciences SSSR (Institut fizicheskoy khimii Akademii nauk SSSR)

TITLE: Study of the structural transformations of UO_2 under the influence of high temperature and zirconium or thorium dioxide admixtures

SOURCE: AN SSSR. Doklady, v. 166, no. 4, 1966, 880-882

TOPIC TAGS: zirconium compound, thorium compound, uranium compound

ABSTRACT: The effect of ZrO_2 and ThO_2 admixtures and thermal pretreatment on the properties and structure of uranium dioxide was studied on samples prepared by co-precipitating the hydroxides, reducing to UO_2, grinding into a powder and pressing into pellets, then hardening and quenching. The transformations taking place were observed by chemical and spectral (x-ray and infrared) methods. It is shown that thermal hardening of pressed UO_2 in the presence of small amounts of ZrO_2 or ThO_2 at high temperatures (1600°C) causes an increase in its crystal lattice parameters

UDC: 541.66

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L 22071-66

ACC NR: AP6008050

and changes in the absorption bands in the infrared spectra. These structural changes also substantially affect the vaporization of UO_2. The latter is decreased by the presence of ZrO_2 and ThO_2. The paper was presented by Academician V. I. Spitsyn on 3 Jun3 1965. Orig. art. has: 3 tables.

SUB CODE: 07/ SUBM DATE: 03Jun65/ ORIG REF: 004/ OTH REF: 003

Card 2/2 dla

GRICHUK, M.P.; SOKOLOVA, M.S.

New data on the Quaternary development of nature in southern Sakhalin. Nauch.dokl.vys.shkoly; geol.-geog.nauki no.2:95-100 '59. (MIRA 12:8)

1. Moskovskiy universitet, geograficheskiy fakul'tet, kafedra obshchego zemlevedeniya.
(Sakhalin--Palynology)

DOLMATOV, Yu.D.; Prinimala uchastiye: SOKOLOVA, N.S.

Determining free acid content in the salt solutions of titanium and iron by means of potentiometric titration. Lakokras.mat.i ikh prim. no.2:57-58 '62. (MIRA 15:5)

1. Chelyabinskiy filial Gosudarstvennogo nauchno-issledovatel'skogo i proyektnogo instituta lakokrasochnoy promyshlennosti.
(Acids, Organic) (Salts) (Potentiometric analysis)

DOLMATOV, Yu.D.; Prinimala uchastiye: SOKOLOVA, N.S.

Using the turbidimetric method for the dispersion analysis of titanium dioxide. Lakokras.mat.i ikh prim. no.5:52-55 '62.
(MIRA 16:1)

1. Chelyabinskiy filial Gosudarstvennogo nauchno-issledovatel'skogo i proyektnogo instituta lakokrasochnoy promyshlennosti.
(Particle size determination)
(Titanium oxides--Analysis)

SOKOLOVA, N. S.

History of the vegetation of the Greater Caucasus. Vest. Mosk. un. Ser. 5: Geog. 17 no.5:40-44 S-O '62.
(MIRA 15:10)

1. Kafedra obshchego zemlevedeniya Moskovskogo universiteta.

(Caucasus--Paleobotany)

SOKOLOVA, N.S.

Treatment of herpetic and dystrophic keratitis with subconjunctival autohemoinjections. Vest. oft. 76 no.5:32 35 S-O '63. (MIRA 17:1)

1. Klinika glaznykh bolezney (zav. kafedroy - chlen-korrespondent AMN SSSR prof. V.N. Arkhangel'skiy) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

SOKOLOVA, N. S.

SOKOLOVA, N.S.: "The organization of clinical medical aid to the adult population of rural communities." First Leningrad Medical Inst imeni Academician I. P. Pavlov. Chair of the Organization of Public Health. Leningrad, 1956. (Dissertations for degree of candidate in Medical Sciences.)

SO: Knizhnaya letopis' No 22, 1956

SOKOLOVA, N.S., kand.med.nauk (Leningrad)

Standard hospital requirements for the adult population in rural areas. Sov.zdrav. 19 no.1:12-14 '60. (MIRA 13:4)

1. Iz kafedry organizatsii zdravookhraneniya (zaveduyushchiy - prof. S.Ya. Freydlin) I Leningradskogo meditsinskogo instituta imeni I.P. Pavlova (direktor A.I. Ivanov).
(LENINGRAD PROVINCE--HOSPITALS, RURAL)

SOKOLOVA, N.S., kand.med.nauk; PROTSEK, Ye.G.

"Methodology and system for analyzing the work of the city hospital" by G.L.Gomel'skaia. Reviewed by N.S.Sokolova, E.G.Protsek. Sov. zdrav. 19 no.12:73 '60. (MIRA 14:3)
(HOSPITALS) (GOMEL'SKAIA, G.L.)

SOKOLOVA, N.S., kand.med.nauk

Some problems in the organization of surgical care in rural areas. Sov.med. 24 no.9:123-125 S '60. (MIRA 13:11)

1. Iz kafedry organizatsii zdravookhraneniya (zav. - prof. S.Ya. Freydlin) I Leningradskogo meditsinskogo instituta imeni I.P. Pavlova (dir. A.I. Ivanov).
(SURGERY) (MEDICINE, RURAL)

SOKOLOVA, N.S.

Recent spore and pollen spectra of the alluvium of the Ob' River in the region of the village of Berezovo. Vest. Mosk. un. Ser. 5:Geog. 20 no.6:65-68 N-D '65. (MIRA 19:1)

GAVANIN, V.A.; PEREL'MUTER, V.S.; RYBKINA, E.I.; SOKOLOVA, N.S.

Indicators of a glow-discharge. (Review). Prib. i tekh. eksp. 10 no.5:12-20 S-O '65. (MIRA 19:1)

1. Moskovskiy elektrolampovyy zavod. Submitted November 20, 1964.

SHCHERBINA, V.V.; NAUMOV, G.B.; MAKAROV, Ye.S.; GERASIMOVSKIY, V.I.; YERMOLAYEV, N.P.; TARASOV, L.S.; TUGARINOV, A.I.; BARSUKOV, Vik.L.; SOKOLOVA, N.T.; KOCHENOV, A.V.; GERMANOV, A.I.; ZNAMENSKIY, V.L., red.izd-va; VINOGRADOV, A.P., akademik, red; POLYAKOVA, T.V., tekhn.red.

[Essential features of uranium geochemistry]. Osnovnye cherty geokhimii urana. Pod red. A.P.Vinogradova. Moskva, Izd-vo AN SSSR, 1963. 350 p. (MIRA 16:10)

1. Akademiya nauk SSSR. Institut geokhimii i analiticheskoy khimii.

(Uranium)

L 46010-66 EWT(1) GW

ACC NR: AR5029454 SOURCE CODE: UR/0169/66/000/005/D017/D017

AUTHOR: Andreyeva, R. I.; Gdalevskaya, Ts. M.; Lositskaya, Ye. P.; Klitochenko, T. I.; Marchenko, A. P.; Razumenko, G. F.; Sokolova, N. T.; Chayka, V. G.

TITLE: Compilation of composite seismic maps of the southeastern part of the Dnepr-Donets basin

SOURCE: Ref. zh. Geofizika, Abs. 5D115

REF SOURCE: Tr. Ukr. n.-i. geologorazved. in-t, vyp. 14, 1965, 132-139

TOPIC TAGS: Dnepr basin seismic map, Donets basin seismic map

ABSTRACT: A second interpretation is made of seismic data obtained for the southeastern part of the Dnepr-Donets basin, using supplementary data obtained in drillings. Structural maps to the scale of 1:50,000 and 1:100,000 are plotted for four horizons, from the Cenomanian to the Lower Permian. Iso-pachous line maps, plotted on the basis of data obtained in seismic exploration, are also discussed. A detailed analysis is made of the tectonic structure of the Upper Paleozoic, Mesozoic, and Cenozoic stages on the basis of the above-mentioned

Card 1/2 UDC: 550.834

L 46010-66

ACC NR: AR6029454

maps. A regional subdivision is made of the territory from the point of view of natural gas and petroleum deposits. A. Titkov. [Translation of abstract] [SP]

SUB CODE: 08/

Card 2/2 MT

ANTOSHIN, Ye.V.

.25(5) p 3 PHASE I BOOK EXPLOITATION SOV/1361

Spravochnik mekhanika mashinostroitel'nogo zavoda v dvukh tomakh.
t. 2: Tekhnologiya remonta (Handbook for Mechanics of Machine-building Plants in Two Volumes. Vol. 2: Technology of Repair Operations) Moscow, Mashgiz, 1958. 971, 1059 p. 40,000 copies printed.

Resp. Ed.: Yu.S. Borisov, Engineer; Ed.: K.O. Tsopin, Engineer; Tech. Ed.: T.P. Sokolova; Eds. of Set: Yu.S. Borisov, Engineer, A.P. Vladimirskiy, Doctor of Technical Sciences, and E.A. Moskin, Candidate of Technical Sciences; Managing Ed. for Reference Literature (Mashgiz): V.I. Krylov, Engineer.

PURPOSE: This handbook is intended for personnel responsible for repair and maintenance operations in a machinery-manufacturing plant.

COVERAGE: The handbook contains information pertinent to the organization of repair and maintenance operations, design-preparation of maintenance work, and economics of maintenance. Information on scientific research organizations and plants participating in preparation of this volume is included in the coverage of Volume I (SOV/1359). There are no references. Basic topics covered include reconditioning and making of parts in maintenance operations; metal-working, painting, and pipe-fitting; finishing operations involved in maintenance work; checking parts for precision; basic bench and assembly work; maintenance of power equipment; and maintenance of foundations.

Card 16/26

ANTOSHIN, Ye V

15(5) p 3 PHASE I BOOK EXPLOITATION SOV/1361

Spravochnik mekhanika mashinostroitel'nogo zavoda v dvukh tomakh.
t. 2: Tekhnologiya remonta (Handbook for Mechanics of Machine-building Plants in Two Volumes. Vol. 2: Technology of Repair Operations) Moscow, Mashgiz, 1958. 911, 1059 p. 40,000 copies printed.

Resp. Ed.: Yu.S. Borisov, Engineer; Ed.: K.G. Tsapin, Engineer; Tech. Ed.: I.P. Sokolova; Eds. of Sct.: Yu.S. Borisov, Engineer, A.P. Vladlyrevskiy, Doctor of Technical Sciences, and E.A. Rodkin, Candidate of Technical Sciences; Managing Ed. for Reference Literature (Mashgiz): V.I. Krylov, Engineer.

PURPOSE: This handbook is intended for personnel responsible for repair and maintenance operations in a machinery-manufacturing plant.

COVERAGE: The handbook contains information pertinent to the organization of repair and maintenance operations, design-preparation of maintenance work, and economics of maintenance. Information on scientific research organizations and plants participating in preparation of this volume is included in the coverage of Volume 1 (SOV/1359). There are no references. Basic topics covered include reconditioning and making of parts in maintenance operations; metal-working, boring, and pipe-fitting; finishing operations involved in maintenance work; checking parts for precision; basic bench and assembly work; maintenance of power equipment; and maintenance of foundations.

Technique used in checking geometric shapes and the interrelationship of machine parts (Sheynin, Ye.M., Engineer; and Zymlyy, I.L., Engineer) 601
Basic rules followed in checking 601
Use of a flatness gage 601
Manufacture, use, and maintenance of the flatness gage 604
Checking the rectilinearity of guides 606
Devices for checking the position of assemblies and parts 608

Methods of measuring the geometric precision of machine tools (Sokolov, B.V., Engineer) 616
Checking the flatness of machine-tool working parts which support the machined item 616
Checking the rectilinearity of movement of machine tool working parts which support the machined item and the cutting tool 616
Rectilinearity of the movement checked in the vertical plane 616
Rectilinearity of the movement checked in the horizontal plane 618
Checking the trueness of rotation of the machine tool working parts which support the machined item or the tool 619

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ANTOSHIN, Ye.V.

.25(5) p 3 PHASE I BOOK EXPLOITATION SOV/1361

Spravochnik mekhanika mashinostroitel'nogo zavoda v dvukh tomakh. t. 2: Tekhnologiya remonta (Handbook for Mechanics of Machine-building Plants in Two Volumes. Vol. 2: Technology of Repair Operations) Moscow, Mashgiz, 1958. vii, 1059 p. 40,000 copies printed.

Resp. Ed.: Yu.S. Borisov, Engineer; Ed.: K.G. Tsopin, Engineer; Tech. Ed.: T.F. Sokolova; Eds. of Set: Yu.S. Borisov, Engineer, A.P. Vladziyevskiy, Doctor of Technical Sciences, and R.A. Noskin, Candidate of Technical Sciences; Managing Ed. for Reference Literature (Mashgiz): V.I. Krylov, Engineer.

PURPOSE: This handbook is intended for personnel responsible for repair and maintenance operations in a machinery-manufacturing plant.

COVERAGE: The handbook contains information pertinent to the organization of repair and maintenance operations, design-preparation of maintenance work, and economics of maintenance. Information on scientific research organizations and plants participating in preparation of this volume is included in the coverage of Volume 1 (SOV/1359). There are no references. Basic topics covered include reconditioning and making of parts in maintenance operations; metal-working, hoisting, and pipe-fitting; finishing operations involved in maintenance work; checking parts for precision; basic bench and assembly work; maintenance of power equipment; and maintenance of foundations.

Card 19/26

SOKOLOVA, N.V.

A.D. Krasil'nikov and N.G. Kurganov's observation journal of the transit of Venus across the solar disk on May 26, 1761. Trudy Inst. ist. est. i tekh. 19:619-641 '57. (MIRA 11:2)
(Venus (Planet), Transit of--1761)

3b992
S/190/62/004/003/012/023
B110/B144

15.9170

AUTHORS: Andrianov, K. A., Volkova, Lora, M., Sokolova, N. V.

TITLE: Synthesis and polymerization of α- and β-cyano dimethyl cyclosiloxanes

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 3, 1962, 403-408

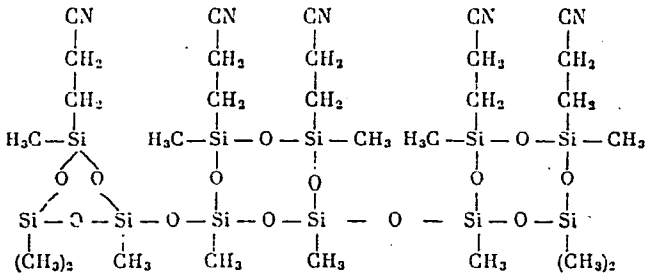
TEXT: The cohydrolysis of bifunctional polymers was conducted in an acid medium:

$$m\,(CH_3)_2SiCl_2 + RCH_3SiCl_2 + (m+n)\,H_2O \rightarrow |(CH_3)_2SiO|_m|CH_3RSiO|_n + 2\,(m+n)\,HCl,$$

where R = $CHCNCH_3$; CH_2CH_2CN. The cohydrolysis of dimethyl dichloro silane with α-cyano-ethyl-methyl dichloro silane yielded heptamethyl-α-cyano-ethyl cyclotetrasiloxane (I), that of β-cyano-ethyl-methyl dichloro silane and dimethyl dichloro silane yielded heptamethyl-β-cyano-ethyl cyclotetrasiloxane (II) and a complicated cyclic compound (III). Hydrolysis products are transparent liquids distillable without decomposition and well

Card 1/3

soluble in benzene, toluene, ether, and CCl_4. Their structure was determined by elementary analysis their molecular weight was determined and IR spectra were taken. Absorption bands at 1079-1086 cm^{-1} showed vibrations of the Si-O bond in the 8-membered ring, bands at 800 and 1250 cm^{-1} showed those of the $Si-CH_2$ bond, and bands at 2332 cm^{-1} showed those of the $C\equiv N$ bond. Peaks at 1020 cm^{-1} and 1080 cm^{-1} (Si-O bonds in the 6- and 8-membered rings) and further analytical results suggest the following structure of III:



Card 2/3

In polymerization with KOH, III behaves like bicyclic polydimethyl siloxanes owing to its easy polymerization at 20°C. At 120°C it forms a structurized product. Catalytic polymerization of II at 130°C was found to cause 2.02 % shrinkage. The polymerization rates form the sequence II > copolymer II + III > III. Higher polymerization rate of II is probably due to the positive polymerization of the Si atom bound to the β-cyanoethyl group, which easily coordinates with the OH group. There are 3 figures, 1 table, and 5 references: 1 Soviet and 4 non-Soviet. The most important reference to English-language publications reads as follows: G. Cooper, M. Prober, J. Organ. Chem., 25, 240, 1960.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova (Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov)

SUBMITTED: March 1, 1961

Card 3/3

CHENAKAL, V.L.; ANDREYEVA, G.A.; PAVLOVA, G.Ye.; SOKOLOVA, N.V.; TOPCHIYEV, A.V., red.; FIGUROVSKIY, N.A., red.; SHCHERBAKOVA, G.A., red. izd-va; VINOGRADOVA, N.F., tekhn. red.

[Chemicle of the life and works of M.V.Lomonosov] Letopis' zhizni i tvorchestva M.V.Lomonosova. Pod red.A.V.Topchieva, N.A.Figurovskogo i V.L.Chenakala. Moskva, Izd-vo Akad. nauk SSSR, 1961. 435 p. (MIRA 14:11)

1. Akademiya nauk SSSR. Institut istorii yestestvoznaniya i tekhniki. (Bibliography—Lomonosov, Mikhail Vasil'evich, 1711-1765)

SOKOLOVA, N.V.

Standardizing the precision requirements for machine tools.
Standardizatsiia 26 no.9:3-6 S '62. (MIRA 15:9)
(Machine tools—Standards)

SOKOLOVA, N.V.

Restoration of the Academy's great globe. Vest. AN SSSR 33 no.12:102-104 D '63. (MIRA 17:1)

CHERNAKAL, V.I.; GORODINSKAYA, R.B.; SOKOLOVA, N.V.; PAVLOVA, G.Ye.;

[The M.V.Lomonosov Museum in Leningrad] Muzei M.V.Lomonosova v Leningrade. Moskva, Izd-vo "Nauka," 1964. 83 p. (MIRA 17:8)

1. Akademiya nauk SSSR. Institut istorii yestestvoznaniya i tekhniki.

SOKOLOVA, M. V.

37642. Rol' khronicheskogo gnoynogo vospaleniya v techenii tuberkuleza. Trudy Tomskogo med. In-ta im. Molotova, T. XV, 1949, S. 96-99

SO: Letopis' Zhurnal'nykh Statey, Vol. 37, 1949

TOROPTSEV, I.V.; SOKOLOVA N.V.(Tomsk)

Characteristics of morphological manifestations of modified reactivity in cases of depression and excitation of the central nervous system. Arkh. pat. 17 no.4:14-19 O-D '55. (MLRA 9:2)

1. Iz kafedry patologicheskoy anatomii (zav.-prof. I. V. Toroptsev) Tomskogo meditsinskogo instituta.

(BLOOD VESSELS, physiology,
eff. of anaphylactic shock after irritation & inhib. of CNS)
(ALLERGY, experimental,
anaphylatic shock, eff. on blood vessels after irritation & inhib. of CNS.)
(CENTRAL NERVOUS SYSTEM, physiology,
eff. of irritation & inhib. on vasc. reactions to anaphylatic shock)

TOROPTSEV, I.V., professor; SOKOLOVA, N.V., dotsent

Morphological characteristics of radiation sickness induced by a single irradiation with a 10 MeV betatron. Jl-Ag '56. Med.rad. 1 no.4: 41-47 Jl-Ag '56. (MLRA 9:12)

1. Iz Tomskogo politekhinicheskogo instituta (dir. - prof. A.A. Vorob'yev) i kafedry patologicheskoy akademii (zav. - prof. I.V. Toroptsev) Tomskogo meditsinskogo instituta.

(RADIATIONS, inj. eff.
pathol. of guinea pig tissue after irradiation with betatron)

Abst. Sum 1117, 5 Nov. 56

SOKOLOVA, N.V.

Biological effect and use of the betatron in medicine; review of foreign literature. Med.rad. 2 no.4:84-93 Jl-Ag '57. (MIRA 10:11)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. I.V.Toroptsev) Tomskogo meditsinskogo instituta.
(NUCLEAR PHYSICS,
betatron, biol. eff. & med.use, review (Rus))

USSR/Human and Animal Physiology (Normal and Pathological). T-13
Effect of Physical Factors. Ionizing Radiation.

Abs Jour : Ref Zhur - Biol., No 16, 1958, 75270

Author : Toroptsev, I.V., Sokolova, N.V.

Inst : Tomsk Polytechnical Institute.

Title : Pathological Anatomy of Acute Radiation Sickness in Experiments (General Effect of Rays Generated by a Betatron).

Orig Pub : Izv. Tomskogo politekhn. in-ta, 1957, 87, 17-27.

Abstract : Tests were conducted on guinea pigs. In cases of their death in the course of 12 hours after radiation there were observed in the blood and lymph vessels necrobiotic changes of the endothelium and an increase permiability of the walls, broadening of vessels; tinctural properties of the blood were changed: hematoxilineosin dyed the plasma a

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[illegible] of the nervous system large locations of necrosis were observed, but the cerebral cortex remained preserved. Necrotic changes were observed in the sex glands, and in the cortical layer of the adrenals. In the lungs and gastro-intestinal tract - vascular infections with phenomena of diapedesis were noted. In the lymphoid tissues impoverishment of the follicles by lymphoid elements was noted, a great quantity of large cells with basophil granulation in the cytoplasm which were macrophases were observed. In all cases with acute radiation sickness, universal change was observed of the structure of paraplastic substation: protein saturation and homogenecity of the vessel walls, intermediate tissue of the kidneys, heart, stomach, coursening and lumpy decay of the reticlar network of the lymphoid tissue and bone marrow.

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634. *The possibility of differentiation and formation of cells of a metastasizing osteosarcoma in the pleural exudate (Russian text)* SOKOLOVA N. V. and VORONOVA A. M. *Arkh. Patol.* 1958, 20:4 (44-48) Illus. 3

After resection of an osteosarcoma of the fibula in a man aged 25 a local recurrence and pulmonary metastases with haemothorax developed, from which the patient died. Microscopical examination of the loose blood-containing masses in the pleural space showed that these were tumour elements which also manifested phagocytic, fibroplastic and angioplastic qualities. Consequently, in this 'tissue explantate' tumour cells manifested properties which they usually do not possess.

Brandt – Berlin

TOROPTSEV, I.V.; SOKOLOVA, N.V.

Pathological anatomy of death in animals during exposure to 25 Mev betatron irradiation [with summary in English]. Med.rad. 4 no.2:50-55 F '59. (MIRA 12:4)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. I.V. Toroptsev) Tomskogo meditsinskogo instituta.
(RADIATIONS, effects,
pathol. of death in animals during exposure to betatron (Rus))

SOKOLOVA, N.V.; GORSHENINA, T.I.

Relation of the localization of radiation injury to the functional state of the organ. Biul.eksp.biol. i med. 48 no.9:29-34 S '59. (MIRA 13:1)

1. Iz kafedry patologicheskoy anatomii (zaveduyushchiy - prof. I.V. Toroptsev) Tomskogo meditsinskogo instituta (direktor - prof. I.V. Toroptsev). Predstavlena deystvitel'nym chlenom AMN SSSR V.N. Chernigovskim.

(RADIATION INJURY exper.)
(KIDNEYS radiation eff.)

NEBOLYUBOVA, G.Ye.; SOKOLOVA, N.V.

Bacteriological and pathoanatomical characteristics of acute radiation sickness caused by the action of a 25 Mev betatron. Trudy TomNIIVS 11:304-310 '60. (MIRA 16:2)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok i Tomskiy meditsinskiy institut.
(RADIATION SICKNESS)

SOKOLOVA, N.V.; GORSHENINA, T.I.

Relation of the localization of radiation injury to the functional conditions of the organ. Biul. eksp. biol. i med. 50 no. 11:33-37 N '60. (MIRA 13:12)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. I.V. Toroptsev) Tomskogo meditsinskogo instituta (dir. - prof. I.V. Toroptsev)
(RADIATION SICKNESS) (DIURETICS AND DIURESIS)

NEBOLYUBOVA, G.Ye.; SOKOLOVA, N.V.

Means of the distribution of intestinal autoflora in acute radiation sickness caused by the action of a 25 Mev betatron. Trudy Tom NIIVS 12:285-291 '60 (MIRA 16:11)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok i Tomskiy meditsinskiy institut.

*

SOKOLOVA, N.V.; KAMNEVA, T.G.; BORISOVA, G.V.; ZVEREV, S.M.; MALYSHEVA, N.M.

Neoplastic diseases according to autopsy data in Tomsk for the past 20 years (1938-1956). Vop.onk. 7 no.3:80-83 '61. (MIRA 14:5)

(TOMSK—TUMORS)

SOKOLOVA, N.V.

Biological activity and the use of fast electrons in medicine. (MIRA 15:1)
Med.rad. no.6:83-87 '61.

1. Iz kafedry patologicheskoy anatomii Tomskogo meditsinskogo instituta.
(ELECTRONS) (RADIOLOGY, MEDICAL)

SOKOLOVA, Natal'ya Viktorovna; GOL'DBERG, D.I., zasluzhennyy deyatel' nauki, prof., red.; MORDOVINA, L.G., tekhn. red.

[Significance of functional stress in the localization of radiation sickness] Rol' funktsional'noi nagruzki v lokalizatsii luchevogo porazheniia. Tomsk, Izd-vo Tomskogo univ., 1962. 144 p. (MIRA 16:6)
(RADIATION SICKNESS) (STRESS (PHYSIOLOGY))

SOKOLOVA, N.V.; GORSHENINA, T.I.

Dependence of the localization of radiation injury on the functional state of the organ. Report No.3: Morphological changes in the uterus in white mice irradiated at various phases of the estrus cycle. Biul. eksp. biol. i med. 3[ice.53] no.3:112-116 Mr '62.
(MIRA 15:4)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. I.V.Toroptsev) Tomskogo meditsinskogo instituta (dir. - prof. I.V.Toroptsev) Predstavlena deystvitel'nym chlenom AMN SSSR N.A.Krayevskim.
(ESTRUS) (UTERUS--RADIOGRAPHY) (RADIATION SICKNESS)

SOKOLOVA, N. V.; GORSHENINA, T. I. (Tomsk)

Morphological characteristics of the liver in relation to its functional state at the time of irradiation. Arkh. pat. no.4: 50-55 '62. (MIRA 15:4)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. I. V. Torcptsev) Tomskogo meditsinskogo instituta (dir. - prof. I. V. Toreptsev)

(LIVER) (RADIATION SICKNESS) (CHOLAGOGUES)

L 38150-65 EWG(j)/EWT(m) UR/ 16 14 B+1

AM5006605 BOOK EXPLOITATION 19

Sokolova, Natal'ya Viktorovna

The role of functional stress in the localization of radiation sickness (Rol' funktsional'noy nagruzki v lokalizatsii luchevogo porazheniya) Tomsk, Izd-vo Tomsk. univ., 1962. 144 p. biblio., plates. 1500 copies printed. (At head of title: Tomskiy meditsinskiy institut) Editor: Professor D. I. Gol'dberg; Technical editor: L. G. Mordovina; Proofreaders: M. I. Svarovskaya, T. A. Nikiforovna.

TOPIC TAGS: heart, kidney, liver, radiation sickness, spinal cord, uterus, skeletal muscle

PURPOSE AND COVERAGE: The author felt compelled to conduct systematic investigations of the possible dependence of the localization and the degree of expression of radiation sickness on the state of functional stress of an organ at the time of ionizing irradiation, especially in view of the clear disagreement in similar observations in published work. The purpose was to present material that would be directly or even indirectly relative to the problem posed and, on an experimental model of deep radiation sickness, to show the peculiarities of the patho-

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morphology of the organs and tissues of animals depending on the state of their functional stress at the moment of ionizing irradiation. Functional stress of the organs at the moment of irradiation (kidneys, liver) was achieved pharmacologically, by physical stressing of the organism (skeletal musculature, heart), by the physiologic condition of the organ (uterus), and by contraction of the muscles with an induction current (spinal cord). The work was performed at the Chair of Pathologic Anatomy of the Tomskiy Meditsinskiy Institut under the direction of I. V. Toroptsev, Corresponding Member of the Academy of Medical Sciences of the USSR.

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TOROPTSEV, I.V.; SOKOLOVA, N.V. [deceased]; TETERINA, V.I.; SOROKINA, V.A.

Reaction of the hemopoietic system of guinea pigs to chronic action of ionizing radiation applied in small doses. Arkh. pat. 27 no.8:10-17 '65. (MIRA 18:10)

1. Kafedra patologicheskoy anatomii, patologicheskoy fiziologii i biologii Tomskogo meditsinskogo instituta.

NESMEYANOVA, Z.I.; ROGOZINA, Ye.A.; SOKOLOVA, N.Ya.

Gas phase of the organic matter of bituminous argillites in the West Siberian Plain. Trudy VNIGRI no.227 Geokhim.sbor. no.9:95-100 '64. (MIRA 18:1)

SOKOLOVA, N.Yu.

Nutrition of sturgeons in the northern Caspian after the introduction of Nereis succinea. Mat. k pozn. fauny i flory SSSR. Otd. zool. no.33: 145-232 '52. (MLRA 10:9)
(Caspian Sea--Strugeons) (Polychaeta) (Fishes--Food)

SOKOLOVA, N.Yu.

Highest and lowest temperature fatal to the bedbug (Cimex lectularius L.) Mat. k pozn.fauny i flory SSSR. Otd.zool.no.34:113-125 '56.
(MLRA 10:1)

(Bedbugs) (Temperature--Physiological effect)

ZENKEVICH, L.A. (Moskva); SOKOLOVA, N.Yu. (Moskva)

Fresh-water medusae in the Uchinsk Reservoir. Priroda 45 no.4:102-104 Ap '56. (MLRA 9:7)

1.Chlen-korrespondent Akademii nauk SSSR (for Zenkevich)
(Uchinsk Reservoir--Medusae)

SOKOLOVA, N.Yu.

Littoral fauna of islands of the Kandalaksha State Preserve. Trudy Gidrobiol. ob-va 8:100-118 '57. (MIRA 11:3)

1. Kafedra zoologii bespozvonochnykh Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.
(Kandalaksha Preserve--Marine fauna)

SOKOLOVA, N.Yu.

Benthos in the Sheksna spur of Rybinsk Reservoir. Trudy Gidrobiol. ob-va 8:246-268 '57. (MIRA 11:3)

1. Kafedra zoologii bespozvonochnykh Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova i Darvinskiy gosudarstvennyy zapovednik.

(Rybinsk Reservoir--Fresh-water fauna)

SOKOLOVA, N.Yu.

Some observations on the overgrowth fauna of water pipes. Nauch. dokl. vys. shkoly; biol. nauki no.2:14-17 '58. (MIRA 11:10)

1. Predstavlena kafedroy zoologii bespozvonochnykh Moskovskogo gosudarstvennogo universiteta imeni M.V. Lononosova.
(Ucha Reservoir--Fresh-water fauna)
(Water pipes)

SOKOLOVA, N. Yu. (USSR)

"Die Entwicklung der Bodenfauna des Utscha-Wasserbeckens."

report submitted for the 14th Intl. Limnological Congress, Vienna, 20 Aug - 8 Sept 1959.

SOKOLOVA, N.Yu.

Recent data on the benthos of Ucha Reservoir; results of research carried out in 1950-1951. Trudy Gidrobiol. ob-va 9:53-73 '59.
(MIRA 12:9)

1. Kafedra zoologii bespozvonochnykh Moskovskogo gosudarstvennogo universiteta.
(Ucha Reservoir--Fresh-water fauna)

SOKOLOVA, N.Yu.; KORENEVA, T.A.

Biological cycle and seasonal dynamics of larval populations of some tendipedids occurring in large masses in Ucha Reservoir. Biul. MOIP. Otd. biol. 64 no.2:67-78 Mr-Ap '59.
(MIRA 12:10)

(Ucha Reservoir--Chironomidae)

SOKOLOVA, N.Yu.

Formation of benthic fauna in Mozhaysk Reservoir. Trudy Gidrobiol. ob-va 11:132-135 '61. (MIRA 15:1)

1. Kafedra zoologii bespozvonochnykh Moskovskogo gosudarstvennogo universiteta, Moskva.
(Mozhaysk Reservoir--Benthos)

SOKOLOVA, N.Yu.

First stages in the formation of fauna in Mozhaysk Reservoir. Vop. ekol. 5:203-204 '62. (MIRA 16:6)

1. Moskovskiy gosudarstvennyy universitet.
(Mozhaysk Reservoir--Freshwater fauna)

SOKOLOVA, N.Yu., otv. red.; KORENEVA, T.A., red.; GEORGIYEVA, G.I., tekhn. red.

[Ucha and Mozhaysk Reservoirs; hydrobiological and ichthyological studies]Uchinskoe i Mozhaiskoe vodokhranilishcha; gidrobiologicheskie i ikhtiologicheskie issledovaniia. Moskva, Izd-vo Mosk. univ., 1963. 422 p. (MIRA 16:3)

1. Moscow. Universitet. Biologo-pochvennyy fakul'tet.
(Ucha Reservoir--Freshwater biology)
(Mozhaysk Reservoir--Freshwater biology)

SOKOLOVA, N.Yu.

Fauna of two streams - a water-supply canal and a river.
Trudy Gidrobiol. ob-va 14:201-227 '63. (MIRA 17:6)

SOKOLOVA, N.Yu.

Experimental study of the consumption of benthos by fish in Ucha Reservoir. Gidrobiol. zhur. 1 no.1:52-61 '65.
(MIRA 18:5)

1. Moskovskiy gosudarstvennyy universitet.

ACC NR: AP7004144 SOURCE CODE: UR/0051/67/022/001/0159/0160

AUTHOR: Bortkevich, A. V.; Sokolova, O. G.; Tsenter, M. Ya.; Bobovich, Ya. S.

ORG: none

TITLE: Influence of solvents on the generation threshold of the 992 cm^{-1} line in the stimulated Raman scattering of benzene

SOURCE: Optika i spektroskopiya, v. 22, no. 1, 1967, 159-160

TOPIC TAGS: [redacted] Raman scattering, stimulated emission, benzene, laser application, organic solvent, Raman spectrum, ruby laser, optic filter/KS-19 optic filter

ABSTRACT: To eliminate the effects of the reaction of the investigated radiation on the operation of the master generator, the authors have investigated the generation thresholds of the 992 cm^{-1} of the stimulated emission of benzene in different binary mixtures inside the resonator under the assumption that this reaction can be neglected at low conversion coefficients of the scattered radiation. The spectra were excited with a Q-switched ruby laser having a power of approximately 5 MW and a pulse duration of 75 nsec. The optical shutter was a filter of KS-19 glass. The spectra were recorded photographically with a diffraction grating. The chosen measure of the generation threshold of the 992 cm^{-1} line was the effective thickness of the benzene layer in the tested solution at fixed laser operation mode and fixed cell length. This thickness was 15 mm for pure benzene, increasing to 25 mm for benzene dissolved in toluol and carbon tetrachloride, to 30 mm for solutions in hexane, cyclohexane,

Card 1/2 UDC: 535.375 + 532.73.0

ACC NR: AP7004144

chloroform, acetone, and nitromethane, and to 35 mm for doddecane, bromoform, and methylcyclohexanon. The results are interpreted as meaning that in all solvents the generation threshold is nearly double compared with pure benzene, and that the threshold is approximately the same (within ±15%) for almost all solvents. No explicit connection could be discerned between the observed quantities and the intermolecular interaction. The difference between the pure benzene and its solutions may be due to the interaction between modes or to resonant parametric interaction. Additional experiments are necessary for a full clarification. Orig. art. has: 1 table.

[WA-14] [02]

SUB CODE: 20/ SUBM DATE: 22Jul65/ ORIG REF: 003/ OTH REF: 005

Card 2/2

SOKOLOVA, O. I.

SOKOLOVA, O. I. -- "Investigation of the Processes of Forming Calcium Hydroaluminates." Min Higher Education USSR. Leningrad Order of Labor Red Banner Technological Inst imeni Leningrad Soviet. Leningrad, 1955. (Dissertation for the Degree of Candidate In Technical Sciences)

SOURCE Knizhnaya Letopis' No 6 1956

MAKSIMOV, V.F.; SOKOLOVA, O.I.; MODZELEVSKAYA, Z.P.; ISAYEVA, N.M.

Using a froth-type apparatus for the decontamination of waste gases from the manufacture of sulfate pulp. Bum. prom. 34 no.5:14-16 My '59. (MIRA 12:6)

1. Leningradskiy tekhnologicheskiy institut tsellyulozno-bumazhnoy promyshlennosti.
(Woodpulp) (Gas purification)

MAKSIMOV, V.F., kand. tekhn. nauk; MODZELEVSKAYA, Z.P., inzh.;
SOKOLOVA, O.I., inzh.

Interaction of sulfur-containing gases with the black liquor and its components. Trudy LTITSBP no.10:40-48 '62. (MIRA 16:8)

(Gases--Purification) (Woodpulp industry)

SHEBALINA, M.A.; SOKOLOVA, O.I.

[How to get high yields of root crops] Kak poluchit' vysokii urozhai kormovykh korneplodov. Leningrad, 1955. 50 p.
(MIRA 13:4)

(Root crops)

MAKSIMOV, Vladimir Fedorovich; NAMESTNIKOV, Igor' Vasil'yevich; SOKOLOVA, Ol'ga Ivanovna; POPILOV, L.Ya., red.; KHOT'KOVA, Ye.S., red. izd-va; BACHURINA, A.M., tekhn. red.

[Methods of inspecting working conditions in the enterprises of the woodpulp, paper, and woodworking industries]Metody kontrolia uslovii truda na predpriiatiiakh tselliulozno-bumazhnoi i derevoobrabatyvaiushchei promyshlennosti. Moskva, Goslesbumizdat, 1962. 214 p. (MIRA 15:10)
(Woodworking industries--Hygienic aspects)

SOKOLOVA, O.I. (Odessa)

Case of association testicular seminoma with cystic degeneration of the kidney. Arkh. pat. 16 no.3:76-77 Jl-S '54. (MLRA 7:10)

1. Iz kafedry patologicheskoy anatomii (zav. prof. D.M.Khayutin) Odesskogo meditsinskogo instituta.

(DISGERMINOMA,
testis, with cystic degen. of kidney)
(TESTIS, neoplasms,
disgerminoma, with cystic degen. of kidney)
(KIDNEYS, cysts,
cystic degen. with testicular disgerminoma)
(CYSTS,
kidneys, with testicular disgerminoma)

SOV/6-59-7-4/25

3(2), 3(4)

AUTHOR: Sokolova, O. I.

TITLE: Results of the Competition for the Best Improving Suggestion (Itogi konkursa na luchsheye ratsionalizatorskoye predlozheniye)

PERIODICAL: Geodeziya i kartografiya, 1959, Nr 7, pp 17-21 (USSR)

ABSTRACT: In May 1959, the ordinary competition for the best improving suggestion in the field of topographic-geodetic and cartographic production was concluded at the Glavnoye upravleniye geodezii i kartografii MVD SSSR (Main Administration of Geodesy and Cartography of the Ministry of Internal Affairs of the USSR). 7 aerogeodetic services, 8 cartographic institutes and NRKCh took part. A total of 30 topographic-geodetic, and 31 cartographic, suggestions were submitted. The 1st prize of 1,000 rubles was awarded to V. A. Morozov and V. V. Urusov (Minskaya kartograficheskaya fabrika (Minsk Cartographic Plant) for the "Seamless Fastening of Atlas Blocks". The 2nd prizes of 750 rubles were awarded to: 1) Ya. L. Bratslavskiy, V. M. Varzugin, Yu. N. Galitskiy, O. F. Shetler and V. P. Stepanov (NRKCh) for "Technology of the Use of Standard Bases (tipovaya osnova)". 2) I. V. Gurevich, V. M. Varzugin,

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Results of the Competition for the Best Improving Suggestion

E. O. Radovil'skaya, O. D. Shetker, L. I. Zmeykova for "Technology of the Manufacture of Combined Diapositives" (NRKCh). 3) D. A. Larin (Moskovskoye AGP (Moscow AGP)) for "Reduction of Work in Evaluating the Accuracy of Symmetric Geodetic Nets Formed by Figures of Regular Shape". 4) N. V. Shreyber (Novosibirskoye AGP (Novosibirsk AGP)) for "Light Collapsible Ladder of Dural for Prospecting". - The 3rd prizes of 500 rubles each were awarded to : 1) I. F. Shevaldin (Yakutskoye AGP (Yakutsk AGP)) for "Establishment of Fixed Points by the Method of Thawing by Means of Vapor". 2) V. D. Ol'shanskiy (Yakutskoye AGP (Yakutsk AGP)) for "Construction of an Overhead Trolley for Timber Transport". 3) I. A. Kyzin (Moskovskoye AGP (Moscow AGP)) for "Variation in the Attachment of Photographs on the STD-2". 4) V. F. Zarubin (Moskovskoye AGP (Moscow AGP)) for "Raising of Geodetic Signs by 5-7 Meters". 5) D. I. Smirnov, I. V. Gurevich, Z. I. Aleksandrova, V. M. Varzugin, V. K. Kirillov and I. Ye. Kislyakov (NRKCh) for "Technology of the Completion and Edition of Topographic Maps by the Photorelief Method". 6) M. F. Glushanin (Minskaya kartograficheskaya fabrika (Minsk Cartographic Institute)) for "Vertical Piling Machine for Brochures". 7) A. A. Vnukov

Results of the Competition for the Best Improving Suggestion

(Tashkentskaya kartograficheskaya fabrika (Tashkent Cartographic Institute)) for "Mechanism for the Loading of Trucks With Paper Rolls". 8) A. N. Tsokolenko (Ukrainskoye AGP (Ukraihian AGP)) for "Replacement of the Arc Lamp for the Heliographic-printing Machine KP-1 by an Illuminating Device With Luminescent Lamps DS-40". 9) G. M. Grigor'yev (Sverdlovskoye AGP (Sverdlovsk AGP)) for "Ruler for Drawing in the Preparation of Map Compilations and Final Compilations". 10) L. G. Izrailev (Severo-Zapadnoye AGP (North-west AGP)) for "Improvement of the Contact Mechanism in the Micrometer by Vodar". 11) S. M. Andreyev (Moskovskoye AGP (Moscow AGP)) for "Formulas and Form for a More Rational Computation of Superelevations From the Trigonometric Leveling". 12) D. G. Vil'ner (Sverdlovskoye AGP (Sverdlovsk AGP)) for "New Numbering and Painting of Leveling Staffs". 13) G. N. Grinberg (Moskovskoye AGP (Moscow AGP)) for "Formulas and Table for Extreme Divergences Between the Free Terms of Polar and Base Conditions Computed on a Plane and on a Ball". - Besides, the following suggestions were approved by the jury: 1) V. T. Trykov (Sverdlovskoye AGP (Sverdlovsk AGP)), "Underframe for Observations From the Telescopic Tower". 2) B. V. Osinskiy

Results of the Competition for the Best Improving Suggestion

(Severo-Zapadnoye AGP (North-west AGP))Template(paletka) for Determining the Corrections of Centering and Reducing With an Auxiliary Scale for Determining the Corrections of the Curvature of the Image of the Geodetic Line and of the Spheric Excess". 3) V. G. Mauyerer (Moskovskoye AGP (Moscow AGP)) , "Variation of the Construction of the Heliotrope". 4) G. M. Shlefendorf (Moskovskoye AGP (Moscow AGP)), "Zero Thermostat for the Gravimeters of the GAK-ZM-type". 5) P. I. Popov (Moskovskoye AGP (Moscow AGP)), "Device for Cutting Aluminum". 6) A. I. Fikhman and G. M. Grinberg (Moskovskoye AGP (Moscow AGP)), "Prospecting Mast". 7) Ya. I. Negnevitskiy, N. A. Pashukevich and M. F. Glushanin (Minskaya kartograficheskaya fabrika (Minsk Cartographic Institute)), " A Workbench Device for Mixing Offset Colors". 8)I. L. Gintsberg (Tashkentskaya kartograficheskaya fabrika (Tashkent Cartographic Institute)), "Device for Grinding the Edges of Plate Glass". 9) A. A. Vnukov (Tashkentskaya kartograficheskaya fabrika (Tashkent Cartographic Institute)), a) "Mechanism for Inclining the Grinding Case". b)"Mechanism for Lifting the Trough With the Balls". 10) V. I. Yurchenko and S. A. Lonshteyn (Tashkentskaya kartograficheskaya fabrika (Tashkent Cartographic Institute)), "Automatic Switch-off of

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Arc Lamps". 11) I. V. Vasil'yeva (Tashkentskaya kartograficheskaya fabrika (Tashkent Cartographic Plant), "Increase in the Durability of Light-sensitive Rubber Solution (Adhesive)". 12) V. M. Sher (Kiyevskaya kartograficheskaya fabrika (Kiyev Cartographic Plant), "Correspondence of the Stroke-elements on Topographic Maps With the Letters on the Machine Printing Forms". 13) V. V. Bozrikov, S. F. Yakunin (Rizhskaya kartograficheskaya fabrika (Riga Cartographic Plant), "On the Improvement in the Construction of Mechanisms for Pressing-on the Inking Rollers and Friction Drums on the Offset Machines 'Planeta-Super-Kvinta'". 14) A. Ya. Simanovskiy (Rizhskaya kartograficheskaya fabrika (Riga Cartographic Plant), "A Rational Method of Making Positives of Printing Forms of Relief Printing on Tracing Paper for Printing Books on Offset Machines". 15) O. M. Yankovskiy (Rizhskaya kartograficheskaya fabrika (Riga Cartographic Plant), "Synchronization and Automatization of the Switching on and off of Arc Lamps and of the Suction Fan in the Copying Department". 16) V. F. Alampiyev (Rizhskaya kartograficheskaya fabrika (Riga Cartographic Plant), "Variation in the Technology of Making Sets of Outline Maps of the Fifth Class"

Results of the Competition for the Best Improving Suggestion

17) V. V. Il'yushin (Rizhskaya kartograficheskaya fabrika (Riga Cartographic Plant), "Preparation of Collecting- and Corresponding Positives by the Method of the Washed-out Relief on 'viniproz'". 18) V. M. Dudochkin (Tbilisskaya kartograficheskaya fabrika (Tbilisi Cartographic Plant), "Switching off the Motor of the Compressor on the Copying Frame by Means of the Change Lever for Lifting the Glass and by Means of the Vacuum". 19) D. I. Matkava (Tbilisskaya kartograficheskaya fabrika (Tbilisi Cartographic Plant), "Device for Laying on the Negatives in Copying". 20) N. M. Serbin (Tbilisskaya kartograficheskaya fabrika (Tbilisi Cartographic Plant), "Device for Drying Paper on Offset Machines". 21) S. M. Konstantinova (Tbilisskaya kartograficheskaya fabrika (Tbilisi Cartographic Plant), "Progressive Method and Procedure for the Preparatory Work in Calculating and Plotting the Geographic Network on Maps to Be Compiled". 22) K. I. Mironov (NRKCh) "A Workbench for Repairing the Guides of the Offset Machine". 23) Yu. P. Tarasov (NRKCh) "Device for Regulating the "taler" of the Offset Machine". 24) Ye. N. Klyuchanskaya and S. V. Nesterova (NRKCh) "Improving the Method of Precipitating the Silver Nitrate in Used Solutions".

SOKOLOVA, O.I.; MAKSIMOV, V.F.

Partial elasticity of hydrogen sulfide over the liquors of sulfite pulp production. Trud. LTITSBP no.12:272-277 '64. (MIRA 18:8)

CA SOKOLOVA, O.K.

Method for determination of the oxidizability of water. O. A. Alekin and O. K. Sokolova. *Voprosy Gidrokhim. (Goudarst. Gidrol. Inst.)* **1946**, No. 32, 81-6.—A report of an investigation the purpose of which was to study conditions detg. the oxidizability of naturally colored waters by the Kubelya-Timan method, and to improve the accuracy of this method by introducing corrections. The extent of natural color of a water sample was measured in degrees on the Pt-Co scale, then $KMnO_4$ soln. was added to oxidize the org. material responsible for the initial color. It was found by expt. that $n = 0.25\ C°$, where n is the no. of ml. of 0.01 N $KMnO_4$ soln. and $C°$ is the extent of color on the Pt-Co scale. In a series of water samples there is no entirely proportional relationship among extent of color, amt. of org. material, and magnitude of oxidizability, because of variations in extent of leaching and compn. of the org. complexes in the water. The larger the excess of $KMnO_4$, the greater is the oxidizability, because by boiling in the presence of org. material, $KMnO_4$ decomposes spontaneously forming MnO_2, which causes further decompn., and thus some of its effectiveness as an oxidizing agent is lost. The "oxidizability" of distd. water is negligible. Tables of data illustrated the relationships found.

Gladys S. Macy

USSR/Geophysics - Ionic Flow, 1 Dec 51
Afforestation

"The Influence of the Afforestation of Watersheds on the Magnitude of Ionic Flow," P. P. Voronkov, O. K. Sokolova, State Hydrol Inst, Leningrad

"Dok Ak Nauk SSSR" Vol LXXXI, No 4, pp 561-564

Natural waters flowing on Earth's surface contain mineral and organic matter whose deg of disintegration differ greatly. Coarsest particles are found in suspended state, and finest - in true solns - are in ionic mol state. Intermediate positions are assumed by inorganic

202T65

USSR/Geophysics - Ionic Flow, 1 Dec 51
Afforestation (Contd)

and organic substances dissolved in water, in colloidal state. Authors investigated monthly and yearly quantity of flow ($m^3 \cdot 10^3/km^2$), ionic flow (t/km^2) for taiga (forest) and cultivated land, and relation between particle type, erosion, etc. Submitted by Acad D. S. Belyankin 28 Sep 51.

202T65

SOKOLOVA, O. K.

SOKOLOVA, [illegible].I., and VOLCHKOV, [illegible].

"Influence of Afforestation of Watersheds on the Mineralization of the Water and on the Magnitude of the Ion Runoff," Tr. Gos Gidrolog. In-ta, No 37 (91), 81-93, 1953

In the Valday Scientific Research Hydrological Station of the State Hydrological Institute, hydrologists have investigated the mineralization of the water flowing off forested and nonforested watersheds. The objects of the observations were the Tayezhnyy (forested), Usad'yevskiy (nonforested), and Priusadebnyy (nonforested) sites, and the Arkhiyereyskiy brook. The total ion runoff from the forested watershed on the average over 4 years amounts to 6.4 m/km, but from nonforested watersheds it is 16.9 m/km. The mineralization of the water of forested watersheds for 4 years amounts to 45 mg/liter; from nonforested watersheds for the same length of time it is 59 mg/liter. (RZhGeol, No 1, 1955)

VORONKOV, P.P.; SOKOLOVA, O.K.

Hydrochemical characteristic of the coloring of surface water. Trudy GGI no.37:95-137 '53. (MIRA 11:6)
(Water) (Color)

ACC NR: AT6035249 SOURCE CODE: UR/3186/66/000/137/0058/0124

AUTHOR: Voronkov, P. P. (Professor; Doctor of geographical sciences); Sokolova, O. K.

ORG: none

TITLE: Formation of the chemical composition of local run-off waters

SOURCE: Leningrad. Gosudarstvennyy gidrologicheskiy institut. Trudy, no. 137, 1966. Formirovaniye khimicheskogo sostava vod mestnogo stoka (Formation of the chemical composition of local runoff), 58-124

TOPIC TAGS: water, chemical composition, surface water, underground water, organic chemical, soil chemical

ABSTRACT: On the basis of hydrochemical observations made during expeditions repeated over a number of years, the conditions of organic substances dissolved in local run-off waters in Northern Kazakhstan and the Altay tableland is examined. The principal characteristics of the quantity and quality of these substances in waters of different origin are given: atmospheric waters, water discharged by rivulets along mountain slopes, and river water collected in small catchment

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ACC NR: AT6035249

basins. The latter are examined as waters forming the composition of organic substances dissolved in the various thicknesses of soil material during discharge into river bed systems during the principal hydrological periods. The wealth of data accumulated makes it possible to include in the article some discussion pertaining to the origin and transformation of organic substances dissolved in natural waters. The text includes 7 maps of the area. Orig. art. has: 15 figures and 19 tables. [GC]

SUB CODE: 07, 08, 20/ SUBM DATE: none/ ORIG REF: 008/

Card 2/2

PECHUK, L.M., kandidat meditsinskikh nauk; SOKOLOVA, O.L.; MOSKACHEVA, K.A. kandidat meditsinskikh nauk

Effect of roentgen rays on tuberculin allergy in children. Prob. tub. no.5:28-32 S-O '54. (MLRA 7:12)

1. Iz detskoy tuberkuleznoy bol'nitsy Krasnogvardeyskogo rayona Moskvy (Glavnyy vrach Ye.S.Lebedeva)
(ROENTGEN RAYS, effects,
on tuberculin allergy in child.)
(TUBERCULIN,
,allergy in child., eff. of x-rays)

SOKOLOVA, O. M.

Chemical Abst.
Vol. 48 No. 5
Mar. 10, 1954
Organic Chemistry

Synthesis of ethyl alcohol labelled with the C^{14} isotope of carbon. T. I. Andrianova, R. A. Andreev, and O. M. Sokolova. *Doklady Akad. Nauk S.S.S.R.* 93, 677–8 (1953).—The following scheme was used. MeMgI with $C^{14}O_2$ yielded, upon acidification with H_2SO_4, $MeC^{14}O_2H$ (cf. *C.A.* 47, 10475d). For better efficiency, a 30% excess of MeMgI was used and the $BaC^{14}O_3$ used as the source of labelled CO_2 was dild. with normal $BaCO_3$. The labelled AcOH was isolated by treatment of the acidic soln. with Ag_2SO_4, evapn. of the Et_2O, addn. of excess H_2SO_4, and steam-distn. of liberated AcOH. The distillate was neutralized with NaOH, concd. *in vacuo* to 6–10 ml., treated with H_2SO_4, extd. with Et_2O, the ext. concd., treated with H_2SO_4 and a 3-fold excess of EtOH, heated on a steam bath, allowed to stand 3 days, and the resulting labelled EtOAc distd. and hydrogenated over Cu-Cr catalyst at 445 atm. and 250° over 29 hrs. The resulting $MeC^{14}H_2OH$ was distd. *in vacuo* from the autoclave into a chilled trap; yield, 50–60%. Its activity was estd. after combustion and conversion to $BaCO_3$. The level of activity obtained is not stated. G. M. Kosolapoff.

3 Chem

7-27-54

ACCESSION NR: AP4027966 S/0205/64/004/002/0197/0202

AUTHOR: Grayevskiy, E. Ya.; Zherebchenko, P. G.; Konstantinova, M. M.; Sokolova, O. M.; Shevchenko, A. N.

TITLE: Relation of radioprotective activity of indolylalkylamines to tissue hypoxia and the role of vascular changes in its development

SOURCE: Radiobiologiya, v. 4, no. 2, 1964, 197-202

TOPIC TAGS: radioprotective action mechanism, indolylalkylamine radioprotective action, tissue hypoxia, vessel spasm, tryptomine derivative, radioprotective preparation, 4-,5-chlortryptamine, 4-,5-metoxytryptamine, serotonine, alpha-methyltryptamine, LSD, cystamine, oxygen intensity, cystamine radioprotective action

ABSTRACT: Literature studies have established that indolylalkylamine radioprotective action is related to tissue hypoxia. This work investigates the mechanism of this action by determining 1) whether the position of a substitute in a tryptamine molecule affects its capacity to produce tissue hypoxia, 2) how the introduction of alpha-methyltryptamine and LSD affects the hypoxic and vasoconstrictive

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ACCESSION NR: AP4027966

action of the preparations, and 3) how the combined use of 5-metoxytryptamine and cystamine affects oxygen level and vessel reaction in tissues. The following preparations were administered intraperitoneally to experimental white mice: 4-chlortryptamine (60 mg/kg), 5-chlortryptamine (60 mg/kg), 4-metoxytryptamine (60 mg/kg), 5-metoxytryptamine (60 mg/kg), and serotonine (50 mg/kg) 1 hr after administering alpha-methyltryptamine, cystamine (150 mg/kg) combined with metoxytryptamine (50 mg/kg), and LSD (10 mg/kg) combined with serotonine. Oxygen intensity in the liver and spleen of the animals was measured by a polarographic method. Vessel tone was determined by the accumulation of neutral red in the organs 30 min after being introduced (65 mg/kg in a 0.5 ml physiological solution). Findings show that tryptamine derivatives with substitutes in the fifth position (5-metoxy-, 5-chlortryptamine) are highly effective radioprotectors because of their capacity to produce hypoxia in radiosensitive organs by vessel spasms. Tryptamine derivatives with substitutes in the fourth position (4-chlor-, 4-metoxytryptamine) do not produce hypoxia or vessel spasms and are ineffective radioprotectors. Alpha-methyltryptamine and LSD remove the radioprotective effect of indolylalkylamines by preventing the development of vessel spasm and subsequent tissue hypoxia. Cystamine enhances the

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