

News in Brief

SOV/32-25-8-28/44

alloys according to a series of standard samples. A spectrograph ISP-22 and an ac arc generator PS-39 were used. 4) The author reports on a method for localized spectrum analysis of steels and welded seams for the determination of phosphorus. The distribution of P was investigated in thin layers (up to 0.02 mm) of metals and welding seams by the use of a DG-1 generator and a quartz spectrograph and the phosphorus contents of microscopic inclusions and thin coatings were investigated. 5) The author determines calcium oxide and ferrous oxide in slags of electric furnaces in which the slag sample (0.2 g) was wetted with a saturated aqueous copper sulfate solution (2 ml) subsequently dried and put in the craters of two arc carbon electrodes. Spectrograph ISP-22 and generator DG-1 were used. 6) The author analyzed magnesite and magnesitic refractory substances by mixing the sample with carbon and barium nitrate (1:2:1) and evaporating it in the crater of a carbon electrode in an ac arc. A spectrograph ISP-22 was used. The use of this method was introduced at the Plant "Magnezit", Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical Kombinat) and Zaporozhskiy zavod ogneporov (Zaporozh'ye Plant of Refractory Materials). 7) The authors apply a spectrum method for the determination of phosphorus

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pentoxide in zirconium dioxide. The determination takes only 2 hours. 20 mg of the sample mixed with carbon (1:1) is put into the carbon electrode and the spectrum lines are measured with a spectrograph ISP-28. 8) The authors, working in the laboratoriya instituta (Institute Laboratory) report the preparation of standard samples from technical Ti for the determination of hydrogen by the spectrum method. The article contains a description of the preparation method and the determination results according to different methods of the hydrogen in standard samples (Table). The difference is maximum relative $\pm 13.5\%$. 9) The author reports on a simple spectrum method for the determination of small quantities of Ba and Mn in calcium chloride water of high mineral contents. He used a spectrograph ISP-22, microphotometer MF-2 and standard samples. There are 1 figure and 1 table.

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ASSOCIATION: 1) Laboratoriya nauchno-issledovatel'skogo instituta (Laboratory of the Scientific Research Institute), 2) Zavod "Serp i molot" (Plant "Serp i molot"), 4) Institut elektrosvarki im. Ye. O. Patona Akademii nauk USSR (Electric Welding Institute imeni Ye. O. Paton of the Academy of Sciences of the UkrSSR), 5) Stalingrafskiy metallurgicheskiy zavod "Krasnyy Oktyabr'" (Stalingrad Metallurgical Plant "Krasnyy Oktyabr'"), 6) Vsesoyuznyy nauchno-issledovatel'skiy institut ogneporov, Khar'kov (All-Union Scientific Research Institute of Refractory Materials, Khar'kov), 7) Zhdanovskoye rudoupravleniye, g. Volnovakha (Zhdanov Mining Administration, City Volnovakha), 9) Ufimskiy neftyanoy nauchno-issledovatel'skiy institut (Ufa Petroleum Scientific Research Institute)

Card 4/4

AUTHOR: Veselovskaya, I.M.

32-24-6-16/44

TITLE: Operating Test of the FES-1 Stylometer
(Op. raboty fotoelektricheskogo stilometra FES -1)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 6, pp 709-710 (USSR)

ABSTRACT: Several investigations of the electric and optical part of the apparatus were carried out in cooperation with T.V. Kovalenko (TANIICHM), on which occasion the photometrical error in the light arc regime on the line Fe 4957.3 Å was determined. It was found that in the case of the revolving system the reproducibility error amounted to 1.64%, whereas without revolution it amounted to only 0.98%, so that the revolving system was eliminated. It was shown by experiment that it is possible to carry out analyses of chromium and manganese with an accuracy of up to some hundredth parts of a %, on which occasion the importance of the dimensions of operational- and auxiliary discharge distances was recognized. Seven seconds was found to be the optimal duration of preliminary irradiation; by longer exposure it was possible to improve reproducibility, and for low chromium- and manganese concentrations a light-arc regime was found to be of greater advantage. For the determina-

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Operating Test of the FES-1 Stylometer

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tion of chromium, the triplet 5204-5206-5208 Å and the line group 4254, 4274 and 4289 Å were found to be the most sensitive, but the sensitivity of the analysis decreases in the case of higher concentrations. For the determination of manganese the line 4823 Å was selected. It was found that the not split-up light beam can be considered to be a stable internal standard because also considerable changes of composition exercise no influence upon its intensity. A period of five minutes is mentioned for the analysis if determination is carried out twice, in which case 96% of the determinations carried out were within the permitted error limits. Several disadvantages of the apparatus are mentioned, but in conclusion it is said that, compared to the visual stylometer, greater accuracy and a more rapid analysis is rendered possible. There are 1 figure and 2 tables.

ASSOCIATION: Metallurgicheskiy zavod "Serp i molot" (Metallurgical Plant "Serp i molot")

1. Spectrum analyzers--Operation
2. Spectrum analyzers--Test results

Card 2/2

VESELOVSKAYA, I.M.

Operation of the PES-1 photoelectric steelometer. Zav. lab. 24
no. 6:709-710 '58. (MIRA 11:7)

1. Metallurgicheskiy zavod "Serp i molot."
(Spectrophotometer)

YAKIMENKO, L.M.; KOKHANOV, G.N.; VESELOVSKAYA, I.Ye.; DZHAGATSPANYAN, R.V.

Investigating the electrochemical behavior of titanium and its alloys during the electrolysis of chloride solutions. Titan i ego splyavy no. 10:168-175 '63. (MIRA 17:1)

VESELOVSKAYA, I.Ye.; KUCHINSKIY, Ye.M.; MOROCHKO, L.V.

Cathodic reduction of chlorate. Zhur.prikl.khim. 37 no.1:76-83 Ja '64.
(MIRA 17:2)

VESELOVSKAYA, I.Ye.; FLISSKIY, M.M.; DZHAGATSPANYAN, R.V.; MOROCHKO, L.V.

Study of the adsorption of sulfate ion on a graphite anode
under conditions of chloride electrolysis. Zhur. prikl.
khim. 36 no.10:2179-2183 0 '63. (MIRA 17:1)

YAKIMENKO, L.M.; DZHAGATSPANYAN, R.V.; VESELOVSKAYA, I.Ye.; KHODKEVICH, S.D.

Use of platinum-titanium anodes in the chlorine industry.
Khim.prom. no.10:728-735 0 '62. (MIRA 15:12)
(Chlorine industry) (Electrodes, Titanium)
(Electrodes, Platinum)

YAKIMENKO, L.M.; KOKHANOV, G.N.; VESELOVSKAYA, I.Ye.; DZHAGATSPANYAN, R.V.

Investigating the electrochemical behavior of titanium and some
other metals during the electrolysis of chloride solutions. *Khim.*
prom. no.1:43-47 Ja '62. (MIRA 1:1)

(Titanium—Electric properties) (Chlorides) (Electrolysis)

FLISSKIY, M.M.; VESELOVSKAYA, I. Ye.; DZHAGATSPANYAN, R.V.; CHERNYAVSKAYA, O.V.

Anodic process on graphite in the electrolysis of sodium chloride
in the presence of sulfate ions. Zhur.prikl.khim. 34 no.11:2483-
2487 N '61. (MIRA 15:1)

(Sodium chloride)
(Sulfates)

(Electrolysis)

FLISSKIY, M.M.; VESELOVSKAYA, I.Ye.; DZHAGATSPANYAN, R.V.

Destruction of graphite anodes in the electrolysis of sodium chloride
in the presence of sulfate ions. Zhur. prikl. khim. 33 no.8:1901-1903
Ag '60. (MIRA 13:9)
(Electrodes, Carbon) (Electrolysis) (Salt)

YESELOVSKAYA, L.Ye.
STROMBERG, A.G.

PHASE I BOOK EXPLOITATION SOV/7216

Soveshchaniye po elektrokhemii. 4th, Moscow, 1956.
Trudy...i [sborniki] (Transactions of the Fourth Conference on Electrochemistry: Collection of Articles) Moscow, Izd-vo AN SSSR, 1959. 868 p. Korrata slip inscriptions 2,500 copies printed.
Sponsoring Agency: Akademiya nauk SSSR, Otdeleniye khimicheskikh nauk.
Editorial Board: A.M. Frumkin (Resp. Ed.), Academician, O.A. Yesin, Professor, S.I. Zhurav (Resp. Secretary), B.M. Kabanov, Professor, Professor, S.I. Zhurav (Resp. Secretary), B.M. Kabanov, Professor, Ya. M. Kolotkin, Doctor of Chemical Sciences, V.I. Loser, P.D. Lukatskiy, Professor, Z.A. Solov'yeva, V.V. Stetsko, Professor, and G.G. Korotkiy, Ed. of Publishing House M.G. Yegorov, Tech. Ed. I. T.A. Prusakova.

PURPOSE: This book is intended for chemical and electrical engineers, physicists, metallurgists and researchers interested in various aspects of electrochemistry.

COVERAGE: The book contains 127 of the 138 reports presented at the Fourth Conference on Electrochemistry sponsored by the Department of Chemical Sciences and the Institute of Physical Chemistry and Academy of Sciences, USSR. The collection pertains to different aspects of electrochemical kinetics, double layer theories and galvanic processes in metal electrodeposits and industrial electrolysis. Abridged discussions are given at the end of each division. The majority of reports not included here have been published in periodical literature. No personalities are mentioned. References are given at the end of most of the articles.

Likozakova, I.A., and A.I. Gole. (Institute of Electrochemistry, Academy of Sciences, USSR). Effect of Atomic Hydrogen Diffusion on the Potential of Polarized Iron Electrodeposits on It 82

Vishnitskiy, R.M., and Yu. Yu. Matulis (Institute Khimii i Khimicheskoy Tekhnologii AN Lit. SSR-Institute of Chemistry and Chemical Technology, Academy of Sciences, Lithuanian SSR). Role of Inorganic Ions in the Process of Electrolytically Separating Hydrogen From Acid Solutions at a Rotating Cathode 86

Iofa, Z.A., and E.A. Kuznetsova (Moskovskiy gosudarstvennyy universitet-Moscow State University). Influence of the Nature of Cations on Overvoltage During the Separation of Hydrogen From Alkaline Solutions at a Mercury Cathode 91

Kuchinskii, Ye. M., and I. Ye. Vassilovskaya. Dependence of Hydrogen Overvoltage on the Surface Condition of an Iron Cathode in an Alkaline Solution 96

Card 5/34

Durdin, Ye. V., L. Kish, and V.I. Kravtsov (Leningradskiy gosudarstvennyy universitet-Leningrad State University). Use of the Oscillographic Method in Investigating the Kinetics of Electrode Processes Which Take Place at the Surface of Dissolving Metals 102

Losev, V.V., and A.M. Khepik (Institute of Electrochemistry, Academy of Sciences, USSR). Using Radioactive Indicators to Study Processes of Ionization and Discharge of Metals Ions at Amalgam Electrodes 116

Fodyuzakin, Yu. A., and A.I. Shlyzin (Moscow State University). Charging Curves of Powder Catalysts and Adsorbents 125
Discussion: G.S. Khaybi, I.I. Khebtalik, A.L. Rotinyan, M.P. Zhuk, I.I. Anichenko, V.V. Krasnozarskiy, M.A. Gerovich (Deceased), A.G. Stromberg and contributing authors 128

Card 6/34

TRAPEZONTSEVA, R.A., kand.med.nauk; VESELOVSKAYA, Kh.A.

Catalase content of the blood in leprosy. Sbor. nauch. rab. po lepr.
i derm. no.13:21-28 '59. (MIRA 14:6)

(CATALASE)

(LEPROSY)

VESELOVSKAYA, Kh, A.

"The Effect of Some Synthetic Substances on the Development of Embryonic
Roots in Winter Wheat," Dok. AN, 56, No. 9, 1947

V2521 OVS KAYA, L.M.

"APPROVED FOR RELEASE: 09/01/2001

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APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610019-1"

by precipitation with the solvent pair tetralin-diethylene glycol. The molecular weight distribution was shown to be similar to that of low pressure polyethylene and to be described satisfactorily by Tung's distribution functions

and 2.1000185.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00 SUB CODE: 00
NO REF SOV: 003 OTHER: 005

USSR/Cultivated Plants - Potatoes. Vegetables. Melons.

M

Abs Jo r : Ref Zhur Biol., No 18, 1958, 82371

Author : ~~Veselovskaya, M.~~

Inst : West Siberian Vegetable Experimental Station

Title : Selection of Watermelons and Muskmelons in the Zone of Northern Trailing-Plant Growing

Orig Pub : S. kh. Sibiri, 1957, No 10, 33-37

Abstract : Cross-breeding, selection and station trials were carried out at the West Siberian Vegetable Experimental Station during 1950-1956. The fast ripening forms of watermelons - Tuvinskiy mestnyy, Arikara, Hybrid 97 and others were differentiated. A new variety of watermelon - Sibiryak - produced on an average for 3 years a crop of 228 centners/ha of ripe fruit, and Stoks variety - 121 centners/ha. Breeding watermelon hybrids on pumpkin stock heightened

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USSR/Cultivated Plants - Potatoes. Vegetables. Melons.

M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82371

the fast ripening, increased the large size and the flavor qualities of the fruit before the 4th generation. The muskmelon varieties studied, were divided into three groups according to fast maturing. Hybrid forms from crossing varieties of different degrees of fast ripening, reduced their vegetation period, and increased dry matter content and fertility upon being grafted at cotyledon stage on pumpkin stock. In the variety trials the hybrid varieties produced a yield of 150-300 centners/ha. -- B.S. Shmal'ko

Card 2/2

VESELOVSKIY, Icil' Aleksandrovich, zasl. deyatel' nauki RSFSR.
Prinimala uchastiye VESELOVSKAYA, M.A., kand. sel'khoz.
nauki; PEN'KOVA, G.A., red.

[Breeding and seed production of vegetables and fruit
crops] Seleksiia i semenovodstvo ovshchrykh i plodo-
vykh kul'tur. Leningrad, Koles, 1965. 230 p.
(MIRA 18:7)

VESELOVSKAYA, M. A.

Mak, ego klassifikatsiia i znachenie, kak maslichnoi kul'tury. The poppy, its classification and its importance as an oleiferous crop. Leningrad, Izd. Vses. in-ta rastenievodstva, 1933. 213, 22 p.

4 SB - 118

VESELOVSKIY, Iol' Aleksandrovich, prof., doktor sel'khoz. nauk;
VESELOVSKAYA, Mariya Aleksandrovna, kand. sel'khoz. nauk;
KOZHEVNIKOVA, Nataliya Nikolayevna, kand. sel'khoz. nauk;
PEN'KOVA, G.A., red.; BARANOVA, L.G., tekhn. red.

[Laboratory and field manual on the breeding and seed production of vegetable crops] Praktikum po seleksii i semenovodstvu opshchnykh kul'tur; dopushcheno upravleniem vysshego i srednego sel'skokhoziaistvennogo obrazovaniia Ministerstva sel'skogo khoziaistva SSSR v kachestve uchebnogo posobiia dlia p'edovoshchnykh institutov i fakul'tetov. Leningrad, Sel'khozizdat, 1963. 141 p. (MIRA 16:7)
(Vegetable breeding--Study and teaching)

VESELOVSKAYA, M. M.

Cand Geolog-Mineralog Sci

Dissertation: "Chemicomineralogical Investigation in the Field of
Pyroxenes of the Diopside-Augite Series."

25 Feb 49

Inst of Geological Sciences, Acad Sci USSR

SO Vecheryaya Moskva
Sum 71

VESELOVSKAYA, M. M., PETROV, V. P., BELYANKIN, D.S., Acad.

Muscovite - Kounrad

Sericite of secondary quartzites of Kounrad. Trudy Inst. geol. nauk AN SSSR No. 106, 1949.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

VESELOVSKAYA, M. M.

USSR/Geophysics - Pre-Cambrian

Jan/Feb 52

"Pre-Cambrian Region of the Kaluzhsk Upheaval According to Data From Deep Boring," M. M. Veselovskaya, A. G. Zavidonova

"Iz Ak Nauk SSSR, Ser Geol" No 1, pp 107-114

Gives the petrographic characteristics of the rocks of the crust fundament (foundation) revealed by deep borings in the region of the Kaluzhsk upheaval and compares the obtained data with results of studies on the crust rocks of other regions.

205169

VESELOVSKAYA, M. N.

USSR/Geophysics - Volcanoes

May/June 52

"New Data on Paleozoic Vulcanism in the Russian Platform," A.G. Zavidonova, M.M. Veselovskaya

"Iz Ak Nauk, Ser Geolog" No 3, pp 89-94

Presents a petrographic description of rocks of effusive origin in the region of Kaluga upheaval, which the authoresses consider to belong to the Devonian age. Indebted to B.M. Kupletskiy.

220763

VESELOVSKAYA, M. M.; SAKHNOVSKIY, S. A.

Petrology

Mineral composition and origin of terrigenous rocks in some districts of the Penza-Murom Depression, Dokl. AN SSSR, 84, No. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

ZAVIDONOVA, A.G.; VESHLOVSKAYA, M.M.

Ancient zone of weathering in the region of the Kaluga Uplift.
Kora vyvetr. no.2:332-346 '56. (MLRA 9:8)
(Kaluga Uplift--Geochemistry)

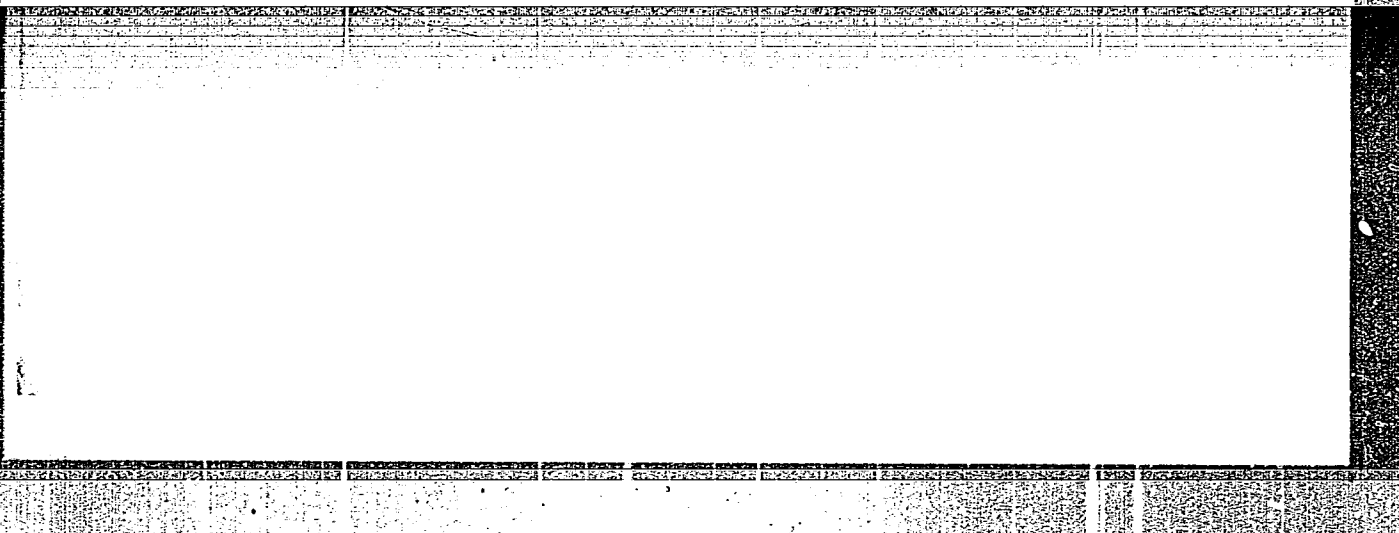
VESELOVSKAYA, M.M.

Study of the oldest carbonate rocks of the Russian Platform (according to date of deep-hole drilling). Dokl. AN SSSR 109 no.3:604-606 J1'56.
(MIRA 9:10)

1. Predstavlena akademikom N.M. Strakhovym.
(Russian Platform--Carbonates (Mineralogy))
(Berings)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610019-1



APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610019-1"

IVANOVA, Z.P.; VESELOVSKAYA, M.M.; KIRSANOV, V.V.

Distribution of the Volhynian series in the Russian Platform.
Biol.MOIP.Otd.geol. 40 no.5:137-146 8-0 '65.

(MIRA 18:11)

VELIKOVSKAYA, E.M.; VEYMARN, A.B.; VERGUNOV, G.P.; APRODOV, V.A.; LYUSTIKH,
Ye.N.; LIPOVETSKIY, I.A.; ROMASHOV, A.N.; FEL'DMAN, V.I.; SAVOCHKINA,
Ye.N.; GEND'ER, V.Ye.; RONENSON, B.M.; DOBROKHOTOVA, Ye.S.;
LYUBIMOVA, L.V.; KHMARA, A.Ya.; VESELOVSKAYA, M.M.; KUDRIN, L.N.;
CHERNIKOV, O.A.; SOROKIN, V.S.; IL'IN, A.N.; FLOROVSKAYA, V.N.;
ZEZIN, R.B.; TEPLITSKAYA, T.A.; BRUSILOVSKIY, S.A.; KISSIN, I.G.;
CHIZHOVA, N.I.; PAVIOVA, O.P.; SHUTOV, Yu.I.

Supplements. Biul. MOIP. Otd. geol. 39 no.4:155 JI-Ag '64.
(MIRA 17:10)

VESELOVSKAYA, M.M.; LAPINSKAYA, T.A.

Pre-Cambrian formations of the eastern slope of the Voronezh nose.
Trudy VNIGNI no.36:231-239 '63. (MIRA 17:9)

VESELOVSKAYA, M.M.

Specific characteristics of the different stages of the formation
of ancient sedimentary rocks in the Russian Platform. Dokl. AN SSSR
158 no.4:864-867 O '64. (MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy
neftyanoy institut. Predstavleno akademikom N.M. Strakhovym.

VESELOVSKAYA, M.M.

Results of the petrographic study of the crystalline basement
in the Russian Platform. Izv. AN SSSR. Ser. geol. 28 no.7:
32-53 J1 '63. (MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy
neftyanoy institut, Moskva.

VSELOVSKAYA, M.M.

Zeolites and zeolite-bearing rocks in the highly upstanding
block in the basement of the Russian Platform. Kora vyvetr.
no.5:284-288 '63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii neftyanoy
institut.

(Russian Platform—Zeolites)

VESELOVSKAYA, M.M.

Secondary feldspars in upper Proterozoic sedimentary rocks.
Doks. AN SSSR 143 no.3:697-700 Mr '62. (MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy
neftyanoy institut. Predstavleno akademikom N.M.Strakhovym.
(Microcline) (Metasomatism)

VESELOVSKAYA, M.M.

Recent data on Pre-Cambrian formations of the Russian Platform.
Dokl. AN SSSR 139 no.1:163-165 J1 '61. (MIRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy
neftyanoy institut. Predstavleno akademikom N.M. Strakhovym.
(Alatyr' region--Geology, Stratigraphic)
(Melidovo region (Kalinin Province)--Geology, Stratigraphic)

PEDASHENKO, A.I. [deceased]; VESELOVSKAYA, M.M.

Crystalline basement and pre-Cambrian formations. Trudy VNIIGI
no. 10:11-22 '58. (MIRA 14:5)
(Russian Platform -Rocks, Crystalline and metamorphic)

YESELOVSKAYA, M.M.; YELINA, L.M.; IL'INA, N.S.; KARASEV, M.S.; SONDLOVA,
L.I.; FILIPPOVA, M.F.; FRUKHT, D.L., kurator

Alatyr' key well. Trudy VNIIGI no.26:113-175 '60. (MIRA 14:1)
(Russian Platform--Petroleum geology)

YESKLOVSKAYA, M.M.; IL'INA, M.S.; PEDASHENKO, A.I. [deceased]; TARASOVA,
A.G., kurator; FILIPPOVA, M.F.

Issa key well. Trudy VNIIGI no.26:176-226 '60. (MIRA 14:1)
(Russian Platform--Petroleum geology)
(Russian Platform--Gas, Natural--Geology)

IVANOVA, Z.P.; KLEVTSOVA, A.A.; VESELOVSKAYA, M.M.

Stratigraphy of Bavly sediments in the Volga-Ural region.

Trudy VIGHI no. 19:7-23 '59.

(MIRA 13:12)

(Volga-Ural region--Geology, Stratigraphic)

VESELOVSKAYA, M.M.; IVANOVA, Z.P.; KLEVTSOVA, A.A.

Buried diabases in the Volga-Ural region. Izv.AN SSSR, Ser.geol. 25
no.8:37-57 AG '50. (MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy
neftyanoy institut, Moskva.
(Volga-Ural region--Diabase)

VESELOVSKAYA, M.M.; UTEKHIN, D.N.; SUKHANOVA, S.H.

Proterozoic formations in the Russian Platform, based on deep
drilling data. Trudy VNIGNI no.13:7-23 '59. (MIRA 13:1)
(Russian Platform--Geology, Stratigraphic)

VESELOVSKAYA, M.M.

Old weathering surfaces in the Russian Platform, based on deep drilling
data. Trudy VNIGNI no.13:24-28 '59. (MIRA 13:1)
(Russian Platform--Weathering)

3 (5)

AUTHOR:

Veselovskaya, M. M.

SOV/20-127-3-43/71

TITLE:

New Data on Secondary Feldspars in Upper Proterozoic Sedimentary Rocks

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 3, pp 627 - 629 (USSR)

ABSTRACT:

Metasomatosis of potassium, sodium, magnesium, iron, and silicate is widespread in pre-Cambrian rocks and was thoroughly investigated by several scientists (Refs 3,6,9, etc). It took place much later than the formation of the rocks transformed by it. A survey of publications (Refs 4,7) shows that potassium metasomatosis ("microclinization", Figs 1a, b) is most widely spread, sodium metasomatosis, however, is comparatively rare. This is true of the two last-mentioned types of metasomatosis of the crystalline basis. The effect of these two metasomatoses on the old masses of the sedimentary cover of the Russian Platform was investigated in the present paper. In the old masses of the so-called Bavlinskaya Suite of the Volga-Ural region feldspathization was found to be widespread. The lower Bavlinskiye formations (Ref 1) are divided into the K a l t a s i n s k a y a , S e r a f i m o v s k a y a , and

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Leonidovskaya Suites. They are discordantly overlain by horizontal upper Bavlinskiye sediments (Lower Cambrian, Ref 1). The complete depth of the lower Bavlinskiye formations amounts to 800 m; they are situated at a depth of about 2,000 and 3,000 m. They are slightly metamorphosed, bearing dikes of gabbro diabases. A number of newly-formed feldspars were found in the two first-mentioned suites. The types of their sandy and aleuritic rocks are described (Figs 1,2). The lower Bavlinskiye sediments mentioned last (the two first-mentioned suites) belong to the Upper Proterozoic-Riffean, i.e. they are about 685 - 868 million years old (Ref 2). There was a continental break after their formation at the end of the Upper Proterozoic during which the deposits mentioned were dislocated. The dikes intruded probably at that time. It is possible that the K- and Na metasomatoses took place during this period. The absolute age of microcline in the pre-Cambrian microclinized granite-gneisses amounts to 700 - 800 million years (according to an oral information by A. I. Tugarinov). Thus, the two types of metasomatoses took

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New Data on Secondary Feldspars in Upper Proterozoic Sedimentary Rocks SOV/20-127-3-43/71

place after the Upper Proterozoic folding and belong to the period of Baykal folds. The solutions rich in K and Na ascended in the breaks of the basis. Z. P. Ivanova directed the investigations. There are 2 figures and 11 references, 8 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut (All-Union Scientific Research Institute for Geological Petroleum Prospecting)

PRESENTED: March 24, 1959, by N. M. Strakhov, Academician

SUBMITTED: March 24, 1959

Card 3/3

3 (5)

AUTHORS:

Ivanova, Z. P., Veselovskaya, M. M., SOV/20-128-4-45/65
Klevtsova, A. A.

TITLE:

On the Stratigraphic Subdivision and the Formation Stages of
Pre-Devonian Deposits in the Central and Eastern Regions of
the Russian Platform

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 4, pp 800 - 803
(USSR)

ABSTRACT:

The above deposits became interesting since petroleum was found
in them. They contain Upper Proterozoic and Lower Cambrian
formations in the sedimentary cover of the part of the plat-
form mentioned above. More recent sediments: Upper Cambrian
and Ordovician occur in the central regions of the platform
and strike in a northwesterly direction. Only the two older
ones (more than 3000 m thick) are discussed in the present
paper. Quartzite sandstones (analogues of the Shokshinskiye)
are the oldest of the platform formations investigated here.
They rest directly upon the basement in Yulovo-Ishim and
Yelshanka. They were identified by the authors as the Yulovo-
Ishimskaya suite of "Iotnium". The deposits known as "Nizhne-
Bavlinskiye" in the east, as Kaverinskaya and Serdobskaya

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On the Stratigraphic Subdivision and the Formation
Stages of Pre-Devonian Deposits in the Central and
Eastern Regions of the Russian Platform

SCV/20-128-4-15/65

series in the central part lie stratigraphically higher above a disconformity and an angular unconformity (Refs 5,8). In the Nizhne-Bavliniskiye deposits the Kaltasinskaya- (316 m thick) and Serafimovskaya suites (450 m thick) and their time equivalent, the Serdobskaya series, are divided into lower and upper strata corresponding to the sedimentation half-cycles. In several cross sections the above suites are intruded by gabbro and diabase. Figure 1 shows the occurrence of the suites mentioned. A thick (more than 700 m) sandstone body classified by the authors as the Leonidovskaya suite (Ref 2) rests upon the Serafimovskaya suite. The Riffian formations are progressively overlain by Lower Cambrian sediments with an angular unconformity and a stratigraphic disconformity. This body is most probably synchronous with the Volynskiy (volcanogenic) complex of the western part of the platform (according to Ye. P. Bruns, Ref 1). The Lower Cambrian (Verkhne-Bavliniskiye) deposits in the eastern regions of the platform consist of 2 complete sedimentation cycles. Table 1 gives a stratigraphic section of the pre-Devonian deposits. The authors identified

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On the Stratigraphic Subdivision and the Formation
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several time units in the latter according to the stratification peculiarities of the old platform sediments: (1) Yulovo-Ishimskaya suite of "Iotnium". (2) Riffian deposits, and (3) Lower Cambrian with decreasing angles of inclination (up to 30° , $10-17^{\circ}$, $0-9^{\circ}$, respectively). The rocks of individual structural stages belong to different zones with respect to the degree of deformation (Ref's 4,6). Figure 2 shows the microphotographies of the rocks of the "Iotnium" age, figure 3 those of the Riffian age. There are 2 figures, 1 table, and 8 Soviet references.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut (All-Union Scientific Research Institute of Geological Petroleum Prospecting)

PRESENTED: May 27, 1959, by N. M. Strakhov, Academician

SUBMITTED: January 25, 1959
Card 3/3

NISCHITAYLO, S.K.; VESSELOVSKAYA, M.M.; SKVORTSOVA, Ye.N.; LYUTKEVICH,
Ye.M., nauchnyy red.; KULIKOV, M.V., vedushchiy red.;
GENHAD'YZVA, I.M., tekhn.red.

[Materials on the geology of the Gorodets-Kovernino tectonic
zone] Materialy po geologii Gorodetsko-Koverninskoj tekto-
nicheskoj zony. Pod red. E.M.Lintkevicha. Leningrad, Gos.
nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry,
Leningradskoe otd-nie, 1959. 126 p. (MIRA 12:9)
(Gorkiy Province--Geology, Structural)

VESELOVSKAYA, M.M.; YASENEVA, N.A.

Stages of formation and variation of terrigenous rocks illustrated by the study of the Novo-Minskaya bore hole (Kuban-Lowland). Dokl.AN SSSR 123 no.6:1085-1088 D '58. (MIRA 12:1)

1. Predstavleno akademikom N.M. Strakhovym.
(Novo-Minskaya--Rocks, Crystalline and metamorphic)

3(0)

AUTHORS:

Veselovskaya, M. N., Yaseneva, M. A.

SOV/20-123-6-35/50

TITLE:

Formation and Variation Stages of Terrigenous Rocks
Illustrated by the Investigation of the Novo-Minskaya Well
(The Near-Kuban' Lowland) (Stadii formirovaniya i izmeneniya
terrigennykh porod na primere izucheniya Novo-Minskoy skvazhiny
(Prikubanskaya nizmennost'))

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 6,
pp 1085 - 1088 (USSR)

ABSTRACT:

The bore-hole mentioned in the title came upon metamorphic paleozoic rocks at a depth of 2566 - 2336 m. The authors describe types of these paleozoic rocks and of the above lying slightly altered Cretaceous sediments (depth 2336-2060 m) on the results of this and four other bore-holes (Fig 1). A part of the "buried Hercynids" (Ref 3) which is an old paleozoic mountain area that stretches to the east as well as to the west, was everywhere discovered below the Lower Cretaceous. I. Rock-types of the metamorphic Carboniferous. The authors were able to determine the age of the paleozoic rocks as Lower Carboniferous. 1) Cataclastic conglomerates.

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Formation and Variation Stages of Terrigenous Rocks SOV/20-123-6-35/50
Illustrated by the Investigation of the Novo-Minskaya Well (The Near-Kuban'
Lowland)

2) Cataclastic various-grained quartzite sandstones. 3) Carbonaceous sericite-schists. 4) Sericite-quartz-schists. 5) Glauconite-siderite-rocks. 6) Siderite-clay-rocks. 7) Quartz-, calcite- more rare chlorite veins. Table 1 shows the thickness of the most abundant rocks. II. Rock-types of the Lower Cretaceous. 1) Neocom rocks (depths 2336-2321 m): a) in the upper part dark-grey, almost black carbonaceous schists. b) in the lower part, sandstones of various grain sizes, mostly fine grained. 2) In the higher region (depth 2321-2060 m) lie rocks of the Lower Albian: a) grey quartz-glauconite aleurolites. b) quartz-glauconite sandstones. A bituminous content was discovered only in the black schists of the Carboniferous. (3). The bituminous content is spread and does not correspond to that of the oil region. In all Cretaceous rocks the bituminous content fluctuates between 0.05 and 0.156. These were oily and intermediate types and in single cases types similar to those of the oil regions. (Fig 2). The authors come to the following results according to the above mentioned facts:
I. The paleozoic rocks are altered until the stage of "meta-

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Formation and Variation Stages of Terrigenous Rocks SOV/20-123-6-35/50
Illustrated by the Investigation of the Novo-Minskaya Well (The Near-Kuban'
Lowland)

genesis" (beginning metamorphism) (Ref 1). II. The metamorphism observed in the Novo-Minskaya bore-hole has a regional spreading. The authors believe that all stages of the epigenesis and of the early metamorphism are of a regional importance. III. These rocks are almost completely enriched with quartz: secondary quartz occurs in the cement, the effusives are silicized, and many quartz veins occur. IV. The rocks of the Lower Cretaceous are altered as all indications show until the stage of beginning -"epigenesis" (Ref 1). Compactness here is, however, higher than that mentioned for the rocks in this zone. A. L. Yanshin, Academician, assisted in this work. There are 2 figures, 1 table and 3 Soviet references.

PRESENTED: June 9, 1958, by N. M. Strakhov, Academician

SUBMITTED: June 9, 1958

Card 3/3

AUTHORS: Veselovskaya, M. M., Karpov, P. A. SOV/20-121-5-35/50

TITLE: The Proterozoic Rocks of the Eastern Slope of the Voronezh Massif (Proterozoyskiye porody vostochnogo sklona Voronezhskogo massiva)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 5, pp. 893-896 (USSR)

ABSTRACT: Proterozoic rocks were found in the vicinity of the massif, viz. in 11 bore holes. They are embedded in a depth of from 145 to 2170 m. Various symptoms indicate that the concerned area formed a peneplain during the sedimentation of the Devonian Deposits. The Eastern slope referred to in the title has been formed at the beginning of the Devonian time. The Pre-Cambrian Rocks descend eastwards, not evenly bedded, however, but in steps. 2 steps are investigated. It may be easily assumed that these steps are accompanied by faults in the foundation. This assumption agrees well with the data obtained from electrical investigations by means of which "elevations" were uncovered in the foundation rock. From the following descriptions of the rock proceeds that intrusions of different

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The Proterozoic Rocks of the Eastern Slope of
the Voronezh Massif

SOV/20-121-5-35/50

ages are concerned. A north-east orientation both of the steps and of the intrusions indicates an affiliation of the latter with the deep faults of the foundation. A description of the rock types from the above mentioned bore holes is given. Figure 3 shows their distribution. Concluding, the age of these rocks is discussed; they date from the Lower Proterozoic time, Taratashskaya Suite (Refs 6,1). It is correlated with the Saksaganskaya series of Ukrainia (Ukraina), the Carelian formations of Carelia (Kareliya) and the Huron (Guron) of America (Biotite-tourmaline- and pyroxene-amphibole slate). The age of the granite gneiss containing tourmaline is hard to determine. They are either Neo-Archeozoic or Proterozoic. All rocks investigated here are doubtless of sedimentary origin. They are radically metamorphosed loamy and partially carbonate rocks amongst which are also intermediary inter-Aleuroclite sandstones and slates. Concluding, the tourmaline of that area has been mineralogically described. There are 3 figures and 7 references, 6 of which are Soviet.

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The Proterozoic Rocks of the Eastern Slope of
the Voronezh Massif

SOV/20-121-5-35/50

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy
neftyanoy institut (All-Union Scientific Research Institute
of Geological Petroleum Prospecting)

PRESENTED: March 31, 1958, by N. M. Strakhov, Member, Academy of Sciences,
USSR

SUBMITTED: March 31, 1958

Card 3/3

VESELOVSKAYA, N.M.; IVANOVA, Z.P.; KLEVTSOVA, A.A.

Stages in the formation of Pre-Devonian sedimentary strata of the Russian Platform and their age. Dokl. AN SSSR 134 no.6:1410-1413 O '60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut. Predstavleno akademikom N.M.Strakhovym. (Russian Platform--Geology, Stratigraphic)

VESELOVSKAYA, M.M.; KIRSANOV, V.V.

Basic rocks on the eastern slope of the Voronezh protrusion.
Dokl. AN SSSR 143 no.2:413-416 Mr '62. (MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologo-razvedochnyy
neftyanoy institut. Predstavleno akademikom N.M.Strakhovym.
(Volgograd Province—Diabases)

VESELOVSKAYA, M. N.

21885 VESELOVSKIY, I. A. i VESELOVSKAYA, M. N.

Sortoizucheniye Kartofelya i ovoshchnykh Kul'tur v Leningradskoy oblasti
Trudy Pushkinsk. s. - Kl. in - ta, t. XIX, 1949, s. 33-44.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949

VESELOVSKAYA, H. H.

21884 VESELOVSKIY, I. A. i VESELOVSKAYA, H. H.

K voprosu o selektsii Kartofelya NA skorospelost' -
Trudy Pushkinsk. s - ka. in - ta, t. XIX, 1949, s. 29-32.

SO: Letopis' Zhurnal'nykh Statoy, No. 29, Moskva, 1949.

12

CA

Water content and dry defatted residue in melted butter. N. Veselovskaya. *Molokozna Proiz. II*, No. 6, 43-4 (1930).—The farm-collected melted butter (Ukraine) varies considerably in moisture content, with av. 3.5%. The av. dry residue is 0.3%. Considerable deviations from the mean are found. G. M. Koslov

ca

12

Dependence of the yield of cottage cheese on milk fat content. A. Protchenko and N. Veslovskaya. *Molokhnaya* (Milk), No. 12, 30-1 (1960). — *Abstract of the USSR's plant-operation study* it was shown that the conversion of milk solids into cottage cheese rises with fat content. Increase of fat content from 3.2% to 4.4% gave an economy of 1.24 kg. in the milk consumed per unit of cottage cheese produced. G. M. Koslovskii

1951

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610019-1



APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610019-1"

VESELOVSKAYA, N.

PROTSENKO, A.; VESELOVSKAYA, N.

Use of separator-purifiers in the production of butter by the continuous method. Moloch.prom. 18 no.3:22-24 '57. (MIRA 10:4)

1. Ukrainskaya nauchno-issledovatel'skaya laboratoriya molochnoy promyshlennosti. (Cream separators) (Butter)

VESELOVSKAYA, J. P., khimik-tekhnolog.

Kaolin bleaching and method of recognizing the fixing of pigments.
Bum.prom. 31 no.6:21 Je '56. (MIRA 9:8)

1. Fabrika tekhnicheskikh bumag "Oktyabr"
(Paper industry) (Kaolin) (Bleaching)

"APPROVED FOR RELEASE: 09/01/2001

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APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610019-1"

VESHLOVSKAYA, N.P., khimik-tekhnolog

Paraffin-stearine emulsion with potassium stearate. Dum.prom.
30 no.7:17-18 J1'55. (MIRA 8:10)

1. Fabrika tekhnicheskikh bumag "Oktyabr"
(Sizing (Paper))

PROTSENKO, A.L.; VESELOYSKAYA, N.S.; DOLZHANOV, P.B., spetsred.; VASIL'YEVA,
G.M., red.; KISINA, Ye.I., tekhn.red.

[Zvenigorod butter and cheese factory] Zvenigorodskii maslodel'no-
syrodel'nyi zavod. Moskva, Pishchepromizdat, 1957. 25 p.
(MIRA 12:3)

(Zvenigorod--Dairy plants--Equipment and supplies)

VESELOVSKAYA, T.

Patrol arrived in time. Za bezop.dvizh. 4 no.4:14 Ap '62.
(MIRA 15:5)

(Traffic safety)

VESLOVSKAYA, T.; SERGEYEV, N.; GUSHCHIN, A.; VORONOV, O.; GORSHKOV, V.

For the health and happiness of children! Za bezop.dvish.
no.6:8-10 Je '60. (MIRA 13:7)

1. Direktor detskogo parka im. Pavlika Morozova.
(Children--Recreation) (Traffic safety)

VESELOVSKAYA, T.

You need a mature friend. Za bezop.dvish. 5 no.215 P '63.
(MIRA 16:2) -

(Moscow--Traffic safety)

ALISOV, P.A., polkovnik meditsinskoy sluzhby, prof.; VESELOVSKAYA, T.A.;
KAZANTSEV, A.P., mayor meditsinskoy sluzhby, kand.med.nauk

Effect of the body's vitamin C requirement on the immunological
reactivity of patients with dysentery. Voen.-med.zhur. no.4:55-
58 Ap '60. (MIRA 14:1)

(ASCORBIC ACID)

(DYSENTERY)

VESELOVSKAYA, T.A.; STARSHOV, P.D., kand.med.nauk

Diagnostic and prognostic value of serum transaminase and aldolase activity tests in patients with Botkin's disease. Sov.med. 25 no.5:47-52 My '61. (MIRA 14:6)

1. Iz kafedry infektsionnykh bolezney (naghal'nik - prof. P.A.Alisov)
Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.
(HEPATITIS, INFECTIOUS) (ALDOLASE)
(TRANSAMINASE)

KAZANTSEV, A.P., kand. med. nauk; VESELOVSKAYA, T.A.; BYLINKINA, Ye.M.

Effect of protozoan and helminth infections on vitamin C metabolism
in dysentery. Sovet. med. 23 no.2:81-84 P '59. (MIRA 12:3)

1. Iz kafedry infektsionnykh bolezney Voenno-meditsinskoy ordona
Lenina akademii imeni S.M. Kirova (nach. - prof. P.A. Alisov).

(DYSENTERY, compl.

protozoan & helminth infect., eff. on vitamin C metab. (Rus))

(PROTOZOAN PATHOGENIC INFECTIONS, compl.

dysentery & helminth infect., eff. on vitamin C metab. (Rus))

(HELMINTH INFECTIONS, compl.

dysentery & protozoan infect., eff. on vitamin C metab. (Rus))

(VITAMIN C, metab.

in dysentery with helminth & protozoan infect. (Rus))

KOMAROVSKIY L.Ye.; PRIKHOD'KO, Yu.N.; SOLDATENKO, V.I.;
MAZJR, V.V.; VESELOVSKAYA, T.I., red.

[Selecting an optimal grinding set for preparing pulp
for condenser paper] Vybór optimal'noi razmalyvaiushchei
garnitury pri podgotovke massy dlia kondensatornoi buma-
gi. Moskva, TSentr. nauchno-issl. in-t informatsii i
tekhniko-ekon. issledovanií po lesnoi, tselliulozno-
bunazhnoi, derevoobrabatyvaiushchei promyshl. i lesnomu
khoz., 1964. 15 p. (MIRA 17:12)

YAKUBOVICH, S.Z., red.; VESELOVSKAYA, T.I., red.

[Improving technological processes in the production of sulfate pulp] Usovershenstvovanie tekhnologicheskikh protsessov sulfatnogo proizvodstva. Moskva, 1963. 39 p.
(MIRA 17:7)

1. Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut informatsii i tekhniko-ekonomicheskikh issledovaniy po lesnuyu, tsellyulozno-bumazhnoy, derevoobrabatyvayushchey promyshlennosti i lesnomu khozyaystvu.

IVANITSKIY, Yu.P.; GUBERNSKAYA, L.T., red.; VESELOVSKAYA, T.I., red.

[Work practices of the Kama Combine] Opyt raboty Kamskogo kombinata. Moskva, 1963. 30 p. (MIRA 17:9)

1. Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut informatsii i tekhniko-ekonomicheskikh issledovaniy po lesnoy, tsellyulozno-bumazhnoy, derevoobrabatyvayushchey promyshlennosti i lesnomu khozyaystvu.

~~HEGELONSKAYA~~ T. I., nauchn. red.; PETRENKO, V.M., tekhn. red.

[Modernization of low and medium-speed papermaking machinery] Modernizatsiia bumagodelatel'nykh mashin srednei i maloi skorosti. Moskva, 1963. 53 p.

(MIRA 16:9)

1. Tsentral'nyy institut tekhnicheskoy informatsii i ekonomicheskikh issledovaniy po lesnoy, bumazhnoy i derevoobrabatyvayushchey promyshlennosti.

(Papermaking machinery)

UL'BERG, R.F.; VESELOVSKAYA, T.I., ref.

[New plants for processing bleached woodpulp from reed]
Novyye zavody po vyrabotke belenoi tselliulozy iz trost-
nika. Moskva, TSentr. nauchno-issl. in-t informatsii i
tekhniko-ekon. issledovaniy po lesnoi, tselliulozno-
bomaznoi, derevoobrabatyvaushchey promyshl. i lesnomu
khoz., 1964. 15 p. (MIRA 18:4)

1. Ukrainskiy Gosudarstvennyy Institut po proyektirovaniyu
predpriyatiy tsellyuloznoy, bumazhnoy i gidroliznoy pro-
myshlennosti (for Ul'berg).

VESELOVSKAYA, T.K.; MACHINSKAYA, I.V.; NADELYAYEVA, A.K.

Certain properties of enol acetates. Part 10: Phenoxylation of ketones by the reaction of their bromo-substituted enol acetates with sodium phenolate. Zhur.ob.khim. 34 no.2:560-565 F '64. (MIRA 17:3)

1. Moskovskiy khimiko-tekhnologicheskij institut imeni D.I. Mendeleeva.

VESELOVSKAYA, T.K.; MACHINSKAYA, I.V.; BUTUGIN, S.M., retsenzent;
VASIL'YEV, S.V., retsenzent; BELOV, V.N., prof., red.
[deceased]; FEDOROVA, T.P., red.; SHVETSCV, S.V., tekhn.
red.

[Problems and exercises in organic chemistry] Zadachi up-
razhneniia po organicheskoi khimii. Pod red. V.N.Belova.
Petrozavodsk, Rosvuzizdat, 1963. 154 p. (MIRA 16:11)
(Chemistry, Organic—Problems, exercises, etc.)

MACHINSKAYA, I.V.; VESELOVSKAYA, T.K.; KIREYEVA, V.G.

Some properties of enol acetates. Part 12: β -Phenoxylation of aldehydes by the reaction of their bromenol acetates with sodium phenolate. Zhur. org. khim. 1 no. 12:2154-2156 D '65 (MTRA 19:1)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni Mendeleeva. Submitted November 16, 1964.

VESHLOVSKAYA, V., fel'dsher (Saratov)

Pay more attention to improving the competence of the feldsher.
Fel'd i akush. 24 no.2:50-51 Fe '59. (MIRA 12:3)
(MEDICINE--STUDY AND TEACHING)

CA

Condensation reaction of *py*-indolealdehydes with malonic acid and cyanoacetic ester. V. M. Rodionov and T. K. Veselovskaya (D. I. Mendeleev Chem. Technol. Inst., Moscow). *Zhur. Obshch. Khim. (J. Gen. Chem.)* 20, 2202-12 (1950).—The Rodionov method of synthesis of β -amino acids (C.A. 21, 1257) cannot be used for β -amino acids of indole; unsat. acids are formed. Me groups in indole affect the ease of condensation with malonic acid; Me in the 2-position lowers the aldehyde activity, while 1-Me raises it. Aldn. over 1 hr. of 125 g. Me₂SO to 25.1 g. 3-indolecarboxaldehyde (I) and 47.7 g. NaOH in 750 ml. H₂O, shaking 4 hrs., and letting stand overnight gave 23.6 g. 1-methyl-3-indolecarboxaldehyde (II), m. 69-70° (cf. Wieland, et al., C.A. 29, 781°), while the mother liquor gave an addn. 2.6 g. 3-indolecarboxaldehyde, m. 100-2°. 3-Methyl-3-indolecarboxaldehyde (III), m. 188-200°, by cyclization of MeC₆H₄NNHPh with ZnCl₂ in cumene, and introduction of CH₃ according to Boyd and Robson (C.A. 29, 4994) into 2-methylindole, b. 143-4°. Methylation of III with Me₂SO, in aq. KOH at 60° gave 76% 1,2-dimethyl-3-indolecarboxaldehyde, m. 128-30° (from EtOH). Heating 2 g. I, 1.6 g. malonic acid, and 5 ml. 7% alc. NH₃ on a steam bath 6 or 17 hrs. gave largely unreacted I and malonic acid; a minute amt. of unidentified acid was also obtained. With heating, II in 3 hrs. gave (from 8 g. II) 4.15 g. green solid, m. 182-3°, identified as (1-methyl-3-indolylmethylene)-

malonic acid, C₁₁H₁₀O₂N (IV), which heated with PhNMe₂ to 80-100° over 1 hr., gave CO, and 1-methyl-3-indoleacrylic acid, m. 163-4°; a very small amt. of possibly 1-methyl-3-vinylindole, m. 73-4°, also formed; this, boiled with 10% KOH gave a solid, m. 98-9°. The reaction of malonic acid with III did not proceed under all conditions tried. 1,2-Dimethyl-3-indolecarboxaldehyde (V) was also unchanged and only a trace of a mixt. of 2 acids, m. 156-9° and m. 154-6°, was secured, possibly 1,2-dimethyl-3-indoleacrylic and (1,2-dimethyl-3-indolylmethylene)malonic acids. Heating 1.5 g. I, 3 g. malonic acid, 5 ml. pyridine, and 5 drops piperidine 40 hrs. at 38-40° gave after treatment with dil. HCl and extr. with Et₂O, 0.3 g. I, and 31.6% 3-indoleacrylic acid, m. 195-6°. With II were obtained 0.2 g. 1-methyl-3-indoleacrylic acid, m. 161-1° (from EtOH), and 0.7 g. IV, m. 182-3°. III and V did not react, except for possible trace amts. 1 (0.75 g.), 0.85 g. Et₂O, C₆H₅CS, 18 ml. EtOH, and 3 drops piperidine let stand 48 hrs. gave 91.9% Et₂O-cyano-3-indolene (VI), m. 164-5°. II similarly gave 61.7% of the 1-Me deriv. of VI, m. 149-50°. III gave 26.1% 2-Me deriv. of VI, m. 239-40°, and V gave 47.7% 1,2-di-Me deriv., m. 129-30°. G. M. K.

1951

10

CP

- The condensation reaction of *py*-indolenaldehydes with malonic acid and cyanoacetic ester. V. M. Kuznetsov and T. K. Veselovskaya. *J. Gen. Chem. U.S.S.R.* 20, 2267-67; (1947) *Engl. transl.* - See *C.A.* 45, 7109. B. I. M.

VESELOVSKAYA, V.

New city settlements in Vologda Province. Volog. krai no.3:
60-80 '62. (MIRA 16:12)

VESELOVSKAYA, V. I.

81866
S/020/60/133/02/40/068
B004/B064

5.4600

AUTHORS: Izidinov, S. U., Borisova, T. I., Veselovskaya, V. I.

TITLE: Electrochemical and Photoelectrochemical Behavior of the Silicon Electrode 7

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 2, pp. 392 - 395

TEXT: The authors investigated monocrystalline silicon of the n- and p-type with $p = 1 \text{ ohm.cm}$ and crystallographic (111) orientation of the surface. A cinematographic incandescent lamp served as light source ($\sim 10^{-1} \text{ cal/cm}^2 \cdot \text{sec}$). The silicon surface was etched in hot KOH or in HF + HNO₃, or ground. Fig. 1 shows the dissolution of Si under hydrogen separation in KOH solutions of 0.1 - 10 N. The time change in potential occurring at the same time is the same for n- and p-Si, and depends on how the surface has been treated. Fig. 2 shows the curves of the anodic polarization for both types immediately after plunging into the solution and after the stable state has been reached. There is no essential

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difference between the two types of silicon apart from the fact that the maximum potential of the anodic curve is 200 mv more positive for the p-type than for n-Si. The photogalvanic activity ΔV of the system is changed by etching. In the case of p-Si ΔV rises from zero to the constant value of 600 mv; in the case of n-Si ΔV becomes not more than 10-15 mv (Fig. 3). Oxidation of the surface both by means of anodic polarization and by chemical etching or introduction of oxygen into the solution exerts an influence upon the photoelectric effect; in the case of n-Si ΔV is increased to 50-100 mv and ΔV reduced in p-Si to 200-400 mv. After the dissolution of the oxide film the photoelectric effect is increased in p-Si and decreases with n-Si (Fig. 4). The difference of ΔV for p- and n-Si in the presence of an electric field is caused by the fact that in the dissolution the surface of p-Si approaches the n-type, whereas oxidation acts in the opposite direction. Though the measured static potentials are the same for both types, the distribution of the change in potential is different at the interface of silicon - solution. The etching off of the mechanically defective layer leads to the increase of ΔV in p-Si. Light acts mainly upon the space charge which can be also seen from the practically unchanged

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hydrogen separation in the case of an exposure to light. The independence of the rate of irreversible dissolution of silicon in alkali of its type is due to the action of two conjugate reactions of oxidation and reduction. There are 4 figures and 7 references: 1 Soviet, 5 British, and 1 German.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova
(Institute of Physical Chemistry imeni L. Ya. Karpov)

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