

quality of products, as the reaction time would be shorter and the thruput or capacity of a given plant would be considerably increased. This would in effect, result in a reduction in cost of the fatty material prepared by the oxidation of paraffin wax. 274

This particular paper covers some work on efforts to oxidize paraffin wax for very short periods of time in the order of one minute while using temperatures in the range of 200 to 500°C. The experimenters claim that the optimum temperature range is 300 to 400°C and report a relatively rapid oxidation at those temperatures showing neutralization number or acid number values in the range of 20 for the one minute of contact time. It is further claimed that the amount of hydroxy acids formed is essentially nil. The data in the table on page 1359 indicate the presence of no hydroxy acids, however, it also shows that the hydroxyl number is relatively high (140 to 150). Although the method of analysis for hydroxy acids is not shown there would be some question as to whether or not their analysis is correct if they have a high hydroxyl number yet claim the practical absence of hydroxy acids.

This type of oxidation, that is using the relatively short contact time at an increased temperature, should lend itself to some form of a continuous process.

Although not mentioned in the particular paper, most of the oxidation procedures which have been in commercial use in Germany and in other locations, have been batch processes. In general, there would be certain economic advantages if the oxidation procedure could be conducted on a continuous basis. The German literature reports a number of efforts to develop a continuous process, however, the continuous processes have usually resulted in a degradation of product quality.

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The fact that this work was apparently done at the Odessa Technological Institute of the Food and Refrigeration Industry may indicate that the Soviet Union is concerned in this particular work with the problem of preparing edible fats from the oxidation of paraffin. This would be a continuation or further work on the type of process that was operated in Germany during World War II. The fact that considerable emphasis is placed on the absence of hydroxy acids which would be very undesirable in any type of edible fatty material, further indicates that these investigators were interested in the utilization of the oxidates for edible fats. Since the preparation of the edible fats type of oxidized material was conducted in Germany at relatively low temperatures in the order of 100°C, in order to obtain a light colored product with as few undesirable side reactions as possible and with as low a yield of hydroxy acids as possible, it appears that what the investigators here may have in mind is the operation of the process at a higher temperature with a much shorter contact time and thereby reducing the cost of the preparation of the fatty materials. The work covered by this paper is considered to be relatively preliminary in nature in that very little information on

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the nature of the oxidates is given with regard to their physical and chemical properties. Further, it is to be expected that at the low neutralization numbers reported on in this paper, that is in the order of 2 to 20 or 30, that only a small amount of hydroxy acids would be formed in the low temperature process also. A commercial operation involving oxidation to only 20 neutralization number would not normally be attractive due to the small amount of paraffin converted to acids. However, if this oxidation were continued and, in fact, re-cycled through this apparatus, so that contact time was increased sufficiently to raise the neutralization number to a value of, for example, 80 to 100, it would be expected that the amount of hydroxy acids would increase even at low temperatures oxidations. In using the high temperatures involved here, there is a possibility that the rate at which the hydroxy acids increase with regard to neutralization number might be greater than at the lower temperatures. It is interesting to note here, however, that the Soviet Union apparently is continuing to work with some vigor on various phases of oxidation work and attempting to improve the existing oxidation procedures as well as developing various utilizations for the oxidates.

III

BYKOVETS, A. I.

8  
③

Reactivity of petroselinic and petroselaidic acids and their esters. A. K. Plisov and A. I. Bykovets (Odessa Technol. Inst. Chem. & Refrig. Ind. J. *Zhur. Obshchei Khim.* 23, 613-16(1953); cf. *C.A.* 48, 573. --Petroselinic acid and its Me, Pr, and PhCH<sub>2</sub> esters undergo oxidation with aq. KMnO<sub>4</sub> at 26-55° and hydrogenation over Pt-BaO at 23° significantly more rapidly than do petroselaidic acid and its corresponding esters. The rate of hydrolysis of the petroselinic acid esters by aq. KOH, however, is smaller than that of the corresponding petroselaidates. These results indicate that petroselinic acid is a cis isomer, while petroselaidic acid is the trans isomer. The esters were prepd. from the ROH and the desired acid in the presence of H<sub>2</sub>SO<sub>4</sub>.  
 Alkyl petroselinates: Me, b<sub>1-2</sub> 158-60°; Pr, b<sub>1-2</sub> 198-200°; PhCH<sub>2</sub>, b<sub>1</sub> 218°, d<sub>4</sub> 0.9315, n<sub>D</sub><sup>20</sup> 1.4825. Petroselaidates: Me, b<sub>1-2</sub> 164-5°; Pr, b<sub>1</sub> 200°; PhCH<sub>2</sub>, b<sub>1-2</sub> 229°, d<sub>4</sub> 0.9372, n<sub>D</sub><sup>20</sup> 1.4812.  
 G. M. Kosolapoff

MP  
11-8-54

U S S R :

Reactivity of petroselinic and petroselaic acids and  
their esters. A. K. Plisov and A. I. Rykov. *J. Gen.  
Chem. U.S.S.R.* 23, 637-9 (1953) (Engl. translation) — See  
C. 48, 8961b. H. L. H.

BYKOVETS, A. I.

USSR/Chemistry

Card 1/1

Authors : Plisov, A. K.; and Bykovets, A. I.

Title : Configuration and properties of unsaturated acids and their derivatives. Part.2.- Properties of cinnamic acids and their esters.

Periodical : Zhur. Ob. Khim. 24, Ed. 5, 852 - 856, May 1954

Abstract : The synthesis of propyl ether of cis-cinnamic acid is described. A difference was established in the relative rate of hydrogenation of cis- and trans-cinnamic acids. Cis-cinnamic acid attracts hydrogen with greater ease. Oxidation of cinnamic acids and their esters takes place at different rates. Cis-cinnamic acid and its ester oxidizes faster than trans-cinnamic acid and its ester; the esters oxidize slower than the corresponding acids. The configuration of the cis-form of cinnamic acids is elucidated. Three references. Graphs.

Institution: The Institute of Food Industry, Odessa, Ukr-SSR

Submitted : November 27, 1953

BYKOVETS, A.I.

PLISOV, A.K.; BYKOVETS, A.I.

Configuration and properties of unsaturated acids. Part 3. Re-activity of  $\beta$ -[ $\alpha$ -furyl]-acrylic acids and their esters. Zhur.ob. 25 no.6:1194-1199 Je '55. (MIRA 8:12)

1. Odesskiy institut pishchevoy i kholodil'noy promyshlennosti (Furanacrylic acid)

2  
Structure of petroselenic acid. A. S. Fiboy and A. J. R. ...  
Petroselenic and petroselaidic acids and Me, I r, and benzyl esters of these were prepd. and reactions of oxidation (I), hydrogenation (II), and sapon. (III) investigated. I and II of petroselenic acid and its esters proceed with higher speed than that of petroselaidic acid and its esters. III: petroselinate proceeds slower than that of petroselaidate. Benzyl petroselinate, light yellow,  $n_D^{20}$  1.48318,  $n_D^{25}$  1.4835. Benzyl petroselaidate, light yellow,  $n_D^{20}$  1.48372,  $n_D^{25}$  1.4842. M. Zaiser

3

GM day



AUTHORS: Plisov, A. K., Bykovets, A. I. SOV/156-58-3-35/52

TITLE: The Thiocyanation of Oleic and Elaidic Acids and Their Esters  
(Rodanirovaniye oleinovoy i elaidinovoy kislot i ikh efirov)

PERIODICAL: Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya  
tekhnologiya, 1958, Nr 3, pp. 540-541 (USSR)

ABSTRACT: Thiocyanate solutions are used for the quantitative analysis  
of fatty acid mixtures. It was found that the rate of thio-  
cyanation of oleic and elaidic acid is different. The thio-  
cyanate number was determined by means of the titration method,  
and the deposition in percentage of thiocyanate was calculated.  
The experimental results showed that the cis-form of the  
fatty acids is more quickly thiocyanated than the trans form,  
and that the free acids can be thiocyanated more slowly than  
the corresponding esters. Quantitatively the thiocyanation  
reaction of the cis and trans forms of elaidic acid and its  
esters resembles the hydration reaction of these compounds.  
There are 1 table and 5 references, 4 of which are Soviet.

Card 1/2

The Thiocyanation of Oleic and Elaidic Acids and Their Esters SOV/156-58-3-35/52

ASSOCIATION:

**Kafedra** organicheskoy khimii Odesskogo tekhnologicheskogo instituta pishchevoy i kholodil'noy promyshlennosti  
(Chair of Organic Chemistry at the Odessa Technological Institute of Food and Refrigeration Industry)

SUBMITTED: November 25, 1957

Card 2/2

PLISOV, A.K., BOGATSKIY, A.V.; ~~BYKOVETS~~, A.I.; BOGATSKAYA, Z.D.

Synthesis of new sulfamide compounds. Trudy OTIPIKhP 9 no.2:97-100  
'59. (MIRA 13:9)

(Sulfamide)

BYKOVSEV, G.I. (Voronezh)

"On limit equilibrium of anisotropic plates and shells of revolution".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964.

PROTS, A.L., inzh.; VOYEVODIN, G.V., inzh.; BYKOVNYY, Ya.I., inzh.;  
MAVRITSYN, A.M., inzh.; PETROSYAN, G.T., inzh.; SHCHEKOLKIN, V.I.

Performance of the transformer neutral lines in strip mines.  
Prom. energ. 18 no.5:32-37 My '63. (MIRA 16:6)

1. Yurkovskiy ugol'nyy razrez, g. Vatutino (for Prots).
  2. Trest po sbytu energoproduktsii Upravleniya energeticheskoy promyshlennosti soveta narodnogo khozyaystva Permskogo ekonomicheskogo administrativnogo rayona (for Voyevodin).
  3. Upravleniye nerudnykh iskopayemykh Ministerstva avtomobil'nogo transporta i shosseynykh dorog UkrSSR (for Bykovnyy).
  4. Korvinskiy trest ugol'nykh predpriyatiy (for Mavritysyn).
  5. Gosgortekhnspetsiya Armyskoy SSR (for Petrosyan).
  6. Zhigulevskiy kombinat stroyaterialov (for Shchekolkin).
- (Strip mining—Electric equipment)  
(Electric power distribution)

BYKOVY, Zh.

Soviet gold prospectors. Znan. sila 36 no. 4:9-11 Ap '61.  
(MIRA 14:4)  
(Gold mines and mining)

ACC NR: AP6 025587

SOURCE CODE: UR/0413/66/000/013/0020/0020

INVENTOR: Kuunyanets, I. L.; Bykhovskaya, E. G.; Frosin, V. N.; Sizov, Yu. A.

ORG: none

TITLE: Method of preparation of 2-(N-alkoxy-N-alkyl)aminoethyl mercaptans. Class 12, No. 183204. [announced by Military Academy for Chemical Protection (Voyennaya akademiya khimicheskoy zashchity)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 20

TOPIC TAGS: alkoxyalkylaminoethyl mercaptan, ethylene sulfide, dialkylhydroxylamine, *mercaptan, sulfide, hydroxylamine*

ABSTRACT:

In the proposed method, 2-(N-alkoxy-N-alkyl)aminoethyl mercaptans are obtained by the reaction of ethylene sulfide with N,O-dialkylhydroxylamine at 90—100°C in an organic solvent.

[W.A. 50; CBE No. 10]

SUB CODE: 07/ SUBM DATE: 20Sep65/

Card 1/1

UDC: 547.269.1'233.07

LIST AND THE ORDERS PROCESSES AND EXPERIENCES NOT

7

Colorimetric determination of vapors of nitrobenzene, azobenzene, aniline and benzidine in air. M. S. Bykbovskaya. *Org. Chem. Ind. (U. S. S. R.)* 6, 638-9 (1939).

The analysis by known methods of contaminated air in the production of benzidine is described in detail. The air is passed through a nitrating acid to convert PhNO<sub>2</sub> into C<sub>6</sub>H<sub>5</sub>(NO<sub>2</sub>)<sub>2</sub> and azobenzene into (O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>N)<sub>2</sub>. The latter reacts with glucose and NaOH to give an intense blue (cf. Bose, *C. A.* 26, 1877). C<sub>6</sub>H<sub>5</sub>(NO<sub>2</sub>)<sub>2</sub> in Me<sub>2</sub>CO with NaOH gives a violet reaction (Stepanov, *Sudebnaya Khim.* 1939). On vapors absorbed in H<sub>2</sub>O, benzidine gives a blue reaction with FeCl<sub>3</sub> and NaOH (Witt, *Ber.* 10, 874 (1877)), and PhNH<sub>2</sub> gives with NaClO and PhOH a pale-blue indophenol reaction (Alkseeva, *C. A.* 25, 1877).

Chas. Blanc

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

GROUPS WITH ONLY ONE

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7	GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14	GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21	GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28	GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35	GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42	GROUP 43	GROUP 44	GROUP 45	GROUP 46	GROUP 47	GROUP 48	GROUP 49	GROUP 50	GROUP 51	GROUP 52	GROUP 53	GROUP 54	GROUP 55	GROUP 56	GROUP 57	GROUP 58	GROUP 59	GROUP 60	GROUP 61	GROUP 62	GROUP 63	GROUP 64	GROUP 65	GROUP 66	GROUP 67	GROUP 68	GROUP 69	GROUP 70	GROUP 71	GROUP 72	GROUP 73	GROUP 74	GROUP 75	GROUP 76	GROUP 77	GROUP 78	GROUP 79	GROUP 80	GROUP 81	GROUP 82	GROUP 83	GROUP 84	GROUP 85	GROUP 86	GROUP 87	GROUP 88	GROUP 89	GROUP 90	GROUP 91	GROUP 92	GROUP 93	GROUP 94	GROUP 95	GROUP 96	GROUP 97	GROUP 98	GROUP 99	GROUP 100
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PROCESSES AND PROPERTIES INDEX

7

**CA**

Separate determination of the vapors of benzene and toluene in the air. M. S. Bykhovskaya. *Zavodskaya Lab.* 11, 637-41(1945).—The method is based on nitration of toluene to  $\text{MeC}_6\text{H}_4(\text{NO}_2)_2$  under conditions at which benzene is nitrated to  $\text{C}_6\text{H}_5(\text{NO}_2)_2$ . In alk. soln.  $\text{MeC}_6\text{H}_4(\text{NO}_2)_2$  is hydrolyzed with the formation of phenolates, insol. in org. solvents. Since  $\text{C}_6\text{H}_5(\text{NO}_2)_2$  undergoes no change, benzene can be detd. in the presence of toluene in soln. of acetone with base. Toluene is detd. as  $\text{MeC}_6\text{H}_4(\text{NO}_2)_2$  in alk. soln. with base.  $\text{C}_6\text{H}_5(\text{NO}_2)_2$  gives no color reaction. Take the air samples into 2 small Poleshaev absorbers (connected in series) contg. 2 ml. of nitrating mixt. (10 g. of  $\text{NH}_4\text{NO}_3$  dried at not higher than  $80^\circ$ , dissolved in 10 ml. of concd.  $\text{H}_2\text{SO}_4$ ). Keep the absorbers on a boiling water bath for 30 min., cool, pour the solns.

from both absorbers into a flask with 12 ml. of distd. water, rinse the absorbers twice with 2 ml. of water, combine the liquids in the same flask, and divide the liquid into 2 equal portions; detg. benzene in one of them and toluene in the other. To det. benzene, neutralize the sample with 40%  $\text{NaOH}$ , add excess  $\text{NaOH}$  (0.5 ml.), let stand for 30 min., transfer the soln. to a sepg. funnel, ext. twice with 10-ml. portions of ether, sep. the ether soln. from the salt soln., pour it into a test tube, stopper the tube with a ground stopper connected to a condenser by means of a rubber tubing, heat the test tube on a water bath, to evap. all ether, blow air through the soln. to remove all traces of ether, stopper the test tube, wash it with  $\text{Me}_2\text{CO}$ , transfer the  $\text{Me}_2\text{CO}$  soln. of  $\text{C}_6\text{H}_5(\text{NO}_2)_2$  to a colorimetric test tube, wash the test tube with  $\text{Me}_2\text{CO}$ , and bring the vol. to 10 ml. Add 0.05 ml. of 5%  $\text{KOH}$  to 5 ml. of the soln. and compare the color with a series of standard solns. The sensitivity of the detn. is 0.05 mg. of benzene in 5 ml. To det. toluene, neutralize the 2nd portion of the soln. with 25%  $\text{NH}_4\text{OH}$ . Transfer the soln. to a separatory funnel, ext. twice with 10-ml. portions of ether, sep. the ether soln. from the salt soln., evap. the ether, and dissolve the residue in 10 ml. of  $\text{EtOH}$ . Add 0.05 ml. of 3%  $\text{KOH}$  to 5 ml. of the soln. and compare after 5 min. the violet color formed with a series of standard solns. 5 references. W. R. Hein

A S M - S L A METALLURGICAL LITERATURE CLASSIFICATION

BYKHOVSKAYA, M. S.

Chemical Abst.  
Vol. 48 No. 9  
May 10, 1954  
Analytical Chemistry

✓ Determination of benzene vapors in the atmosphere.  
M. S. Bykhovskaya. *Khim. Prom.* 1947, 208-9.—The  
method is based on nitration, extn. of the dinitrate formed  
with acetone, and colorimetric estn. The air is bubbled  
through a 10% NH<sub>4</sub>OH soln. in coned. H<sub>2</sub>SO<sub>4</sub> at the rate of  
10-15 l./hr. The soln. is poured into satd. NaOAc and  
neutralized with 25% NH<sub>4</sub>OH until alk. to phenolphthalein.  
The dinitrobenzene is extd. with acetone and its concn.  
estd. colorimetrically against prepd. standards. I. B.

8-25-54  
JH

Oct 48

USSR/Medicine-Industry and Occupation,  
Hygiene  
Medicine-Tetraethyl Lead, Poisoning

Determination of Tetraethyl Lead in Organic Sub-  
strata, M. S. Rykhovakaya, Inst of Labor Hygiene  
and Occupational Diseases, Acad Med Sci USSR 32 pp

"Gig i San" No 10

Used methods described for studies on circulation of  
tetraethyl lead in the organism. Made analyses of  
blood, spinal fluid, brain, and liver of animals  
poisoned by tetraethyl lead. Method of extraction  
of tetraethyl lead from substrates by a current of  
air with a subsequent determination with silver

49/4962

Oct 48

USSR/Medicine-Industry and Occupation,  
Hygiene (Contd)

nitrate is of special interest, since isolation of  
the tetraethyl lead molecule is possible without its  
disintegration. Includes two tables on determination  
of tetraethyl lead.

49/4962

PA 49/4962

С. И. РЫХОВАКОВА

CA

7

**Determination of nickel in the air.** M. S. Bekhovskaya (Ministry Health, Moscow). *Gigiena i Sanit.* 1951, No. 11, 28-33.—For the colorimetric, dimethylglyoxime method of detg. Ni in air samples it is recommended that absorbent cotton, glass wool, or filter paper be used for collection of samples. Fe, Cu, and Co if present in more than 20  $\gamma$ /10 ml. give too high results, but the soly. of the Ni dimethylglyoxime in  $CHCl_3$  permits ready sepn. from much Fe and Cu; Co is not sepd., and may interfere. The color is more stable in aq. solns. than in aq.  $HNO_3$  solns. In KOH or NaOH solns. the color takes 20-5 min. to develop but then is more stable than that secured in  $NH_4OH$  soln., when the above bases were used to neutralize the original 20%  $HNO_3$ . Oxidation can be effected with 3%  $(NH_4)_2S_2O_8$  or 1% iodine in alc. contg. Rochelle salt. G. M. Kosolapoff

BYKHOVSKAYA, M. S.

The determination of lead, copper, zinc, and cadmium by polarographic methods in sanitary-hygienic investigations. M. S. Bykhovskaya and M. I. Poltaev. *Nevosti Med.* 1952, No. 26, 39-41. — Polarographic methods are applicable to the detn. of small quantities of Pb in the air by use of a supporting electrolyte contg. 5% soln. of HNO<sub>3</sub>, 30% AcONH<sub>4</sub>, and 1% AcONa in 1% AcOH in which case Zn and Cu do not interfere with the polarographic estn. of Pb. For the differential detn. of Pb, Zn, and Cu it is recommended that a 30% soln. of AcONH<sub>4</sub> at pH 6.6-7.0 be used as the supporting electrolyte. For the detn. of Pb in washings from the hands of other parts of the body and from work cloths a 5% soln. of AcOH is recommended. Small quantities of Zn, Cu, and Ca can be detd. easily in an ammoniacal soln. of NH<sub>4</sub>Cl, in which detns. can be made for each metal in the presence of all. B. S. Levine

BYKHOVSKAYA, M.S.; POLETAYEV, M.I.

~~XXXXXXXXXX~~  
Polarographic method in sanitary and hygienic investigations. Gig. sanit.,  
Moskva no.12:47-50 Dec 1952. (GLML 23:4)

1. Of the Institute of Labor Hygiene and Occupational Diseases of the  
Academy of Medical Sciences USSR.

BYKHOVSKAYA, Mariya Solomonovna; GINZBURG, Slava I'vovna; KHALIZOVA, Ol'ga  
Dmitriyevna; ROZANOV, L.S., redaktor; BOBROVA, Ye.N., tekhnicheskii re-  
daktor.

[Practical guide to industrial sanitation chemistry] Prakticheskoe ru-  
kovodstvo po promyshlennno-sanitarnoi khimii. I. [Organic compounds]  
Organicheskie soedineniia. Pod red. O.D.Khalizovoi, Moskva, Gos. izd-  
vo med. lit-ry, 1954. 356 p. (MLRA 8:1)  
(Industrial hygiene) (Chemistry, Organic)

Bykhovskaya, M.S.

USSR/Analytical Chemistry - Analysis of Inorganic Substances

G-2

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4749

Author : Bykhovskaya, M.S., Babina, M.F.

Title : Determination of the Content of Lead, Zinc and Thallium in the Air, by the Spectrographic Method.

Orig Pub : Gigiyena i sanitariya, 1956, No 7, 26-30

Abstract : The work was carried out with an ISP-22 quartz spectrograph using a slit width of 0.015 mm; darkening of the lines was measured with a MF-22 microphotometer; quantitative determinations were carried out by the method of three standards. On excitation of the spectra in a carbon arc, of direct or alternating current, sensitivity of the method was of 0.01 mg Pb in the gas cloud of the arc, or of 0.03 mg in the sample, and of 0.01 and 0.03 mg Zn or of 0.003 and 0.01 mg Tl, respectively. On an excitation of the spectrum in a condenser spark the sensitivity of the determination is considerably lower.

Card 1/2

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USSR/Analytical Chemistry - Analysis of Inorganic Substances

G-2

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4749

Spectrographic determination of Pb is interfered with by Sn, Cu and Zn, and sensitivity of Pb determination is not higher than the nephelometric determination as  $PbCrO_4$ . Zn can be determined in the presence of 5-fold excess of Cu, but sensitivity of the method is lower than that of the chemical method. The conditions of determination of Pb, Tl (0.01 mg) and Zn are described.

*Iz Instituta gigiyeny, truda i  
professional'nykh zavolevaniy  
AMN SSSR.*

Card 2/2

- 29 -

SOV/137-58-8-18136

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 275 (USSR)

AUTHOR: ~~Bykhovskaya~~, M. S.

TITLE: Comparative Evaluation of Some Methods of Determination of Beryllium and its Compounds Applicable to the Analysis of Air (Sravnitel'naya otsenka nekotorykh metodov opredeleniya berilliya i yego soyedineniy primenitel'no k analizu vozdukha)

PERIODICAL: Gigiyena truda i prof. zabolevaniya, 1957, Nr 6, pp 49-53

ABSTRACT: A review of colorimetric, fluorescent, and spectrographic methods of determination of the amounts of Be in various substances. The use of trilon B for the elimination of the effect of the interfering cations and the separation of impurities with the aid of paper-chromatography separation was investigated. The most sensitive of the methods is the fluorescent one with morin, which forms an intracomplex compound with a yellowish-green fluorescence under ultraviolet rays. Sulfates, chlorides, and nitrates decrease the intensity of the fluorescences. The minimum determinable amount of Be is 0.01  $\gamma$  in aqueous solutions and 0.05  $\gamma$  in solutions of neutralized acids. Of the colorimetric methods the best

Card 1/2

SOV/137-58-8-18136

Comparative Evaluation of Some Methods (cont.)

is the one with beryllon P. The minimum determinable amount of Be is 0.5  $\gamma$ . The spectrographic method of determination of Be has possibilities. The paper chromatography separation method can be used as a semiquantitative one for the determination of Be in the presence of Ca, Mg, Fe, Mn, and Al.

K. K.

1. Metals--Analysis    2. Beryllium--Determination

Card 2/2

PHASE I BOOK REVISIONS 807/3889

Boornik radiatsionnaya i dozimetricheskaya metoda (Collection of Radiochemical and Dosimetric Methods) Moscow, M-dgiz, 1959. 459 p. Errata slip inserted. 9,000 copies printed.

Ma. (Title page): E.G. Osery, U.Ya. Margolis, A.R. Mary, E.Yu. Tarasenko, Yu.M. Shchegolev, Ed. (Inside book): V.I. Labazov; Tech. Ed.: A.I. Zakharenko.

PURPOSE: This collection of articles is intended for physicists, sanitation and public health doctors, chemists and other specialists working in radioactive dosimetry.

CONTENTS: This work discusses the following subjects: (1) principles of organizing sanitation and dosimetric control in institutions where work is carried on with radioactive substances; (2) radio-chemical and chemical methods for determining certain radioactive substances in samples of air, water, soil and foodstuffs; (3) physical methods of measuring contamination of the air by radioactive gases and aerosols, and methods for determining level of contamination of working surfaces, clothes and leather coverings; (4) methods of measuring activity of various types of sources; (5) Absolute and relative methods of determining the activity of solids and liquids; (6) Absolute and relative methods of measuring radiation, units of activity, and dose from natural (background) radioactivity in the calcium of foodstuffs. Sanitary conditions observed during transportation, storage, and handling of radioactive substances are discussed, as well as the permissible level of limiting radiation. The article about Yu.V. Strizhnev and E.P. Shubov. References appear at the end of each chapter.

Ch. III. Radio-Chemical Methods of Determining Radioactive Substances

1. Separation of samples of radioactive contaminated air	45
2. Determination of activity (G.P. Kozlovskiy)	45
3. Preparation of samples of water, biological material, soil and herbage for analysis: radio-chemical analysis (Ye.S. Bel'yeva)	51
4. Determination of activity of radioactive strontium and barium (Ye.S. Bel'yeva)	53
5. Determination of radioactive cesium (Ye.S. Bel'yeva)	57
6. Separation and determination of radioactive cesium in drainage waters (Ye.S. Bel'yeva and V.A. Grigoriyev)	62
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Recommended Literature

Ch. IV. Radio-Chemical and Chemical Methods of Determining Certain Radioactive Elements in the Air

Introduction (Ye.S. Bel'yeva and E.Yu. Tarasenko)

1. Taking samples of the air (Ye.S. Bel'yeva and E.Yu. Tarasenko)
2. Methods of analysis (Ye.S. Bel'yeva and E.Yu. Tarasenko)
3. Determination of radon in the air (Ye.S. Bel'yeva and E.Yu. Tarasenko)
4. Determination of thorium in the air (Ye.S. Bel'yeva and E.Yu. Tarasenko)
5. Determination of radium in the presence of other alpha-active products (Ye.S. Bel'yeva and E.Yu. Tarasenko)
6. Determination of polonium (V.I. Labazov and V.P. Karasina)
7. Determination of radioactive iodine in the air (A.P. Shchegolev)

Recommended Literature

BYKHOVSKAYA M-S

PHASE I BOOK EXPLOITATION

SOV/5332

Bykhovskaya, Mariya Solomonovna, Slava L'vovna Ginzburg, and Ol'ga Dmitriyevna Khalizova

Metody opredeleniya vrednykh veshchestv v vozdukh i drugikh sredakh; prakticheskoye rukovodstvo (Methods of Identifying Harmful Substances in the Air and Other Media; Practical Handbook) pt. 1. Moscow, Medgiz, 1960. 311 p. 6,000 copies printed.

Ed. (Title page): O.D.Khalizova; Ed.: M.D.Babina; Tech.Ed.: A.I. Zakharova.

PURPOSE: This handbook is intended for industrial hygiene and sanitation inspection personnel, specialists working in the field of industrial hygiene chemistry at research institutes, factory laboratories, epidemic control station laboratories, etc.

COVERAGE: The book, which was recommended for publication by the Redaktsionno-izdatel'skiy Sovet Akademii meditsinskikh nauk SSSR

Card 1/28

Methods of Identifying (Cont.)

SOV/5332

(Editing and Publishing Council of the Academy of Medical Sciences of the USSR) is published in two parts. Part I, the present work, is entitled Neorganicheskiye i metallorganicheskiye soyedineniya (Inorganic and Organometallic Compounds), and Part II is entitled Organicheskiye soyedineniya (Organic Compounds). Both parts of the book discuss analysis methods for the great majority of substances which are important industrial air contaminants whether as gases, vapors, or dust. The most up-to-date methods of physical and chemical analysis in their application to the chemistry of industrial hygiene, the electro-photometric, the chromatographic, the luminescence, the polarographic and other methods are dealt with. Considerable attention is given to rapid analysis methods. The handbook does not, in the opinion of Professor A.A.Letavet, Member of the Academy of Medical Sciences USSR, who wrote the preface, give due attention to continuous analysis methods which feature the graphic registration of concentrations, nor is due place given to the design and manufacture of equipment and apparatus for the analysis methods discussed. References accompany each chapter.

Card ~~2/28~~

BYKHVYSKAYA, M.S.; VORONTSOVA, Ye.I.

Determination of renacite-4 in the air of production shops. Khim.  
prom. no.8:685-686 D '60.  
(MIRA 13:12)

1. Institut gigiyeny truda i profsabolevandy AMN SSSR.  
(Rubber industry--Hygienic aspects)  
(Benzonethiol)

BYKHOVSKAYA, M.S. (Moskva)

Third All-Union Conference on problems of industrial and sanitary chemistry. Gig. truda i prof. zab. 4 no.11:61 N '60. (MIRA 15:3)

1. Institut gigiyeny truda i professional'nykh zabolevaniy AMN SSSR.

(CHEMISTRY, TECHNICAL--CONGRESSES)  
(SANITARY CHEMISTRY--CONGRESSES)



BYKHOVSKAYA, M.S. (Moskva)

Determination of beryllium in biological media. Gig.truda i prof.  
zab. no.11:55-57 '61. (MIRA 14:11)

1. Institut gigiyeny truda i profzabolevaniy AMN SSSR.  
(BERYLLIUM--ANALYSIS)

BYKHOVSKAYA, M.S. (Moskva)

Determination of zirconium and its compounds in the air of industrial plants. Gig. truda i prof.zab. 5 no.6:54-57 Je '61.  
(MIRA 15:3)

1. Institut gigiyeny truda i professional'nykh zabolevaniy AMN SSSR.

(AIR--ANALYSIS)  
(ZIRCONIUM--ANALYSIS)

BYKHOVSKAYA, M.S.; ORLOVA, I.A.

Separate determination of manganese, chromium, and iron in the air by polarography. Zav.lab. 27 no.5:540-542 '61. (MIRA 14:5)

1. Institut gigiyeny truda i profzabolevaniy Akademii meditsinskikh nauk SSSR.

(Manganese--Analysis) (Chromium--Analysis)  
(Iron--Analysis)

BYKHOVSKAYA, M.S., red.; PIMENOVA, Z.M., red.; KHALEKOVA, O.D., otv.  
red.; BERDNIKOV, A.I., red.; PARAKHINA, N.L., tekhn. red.

[New developments in the field of chemical analysis in sanitary  
engineering] Novoe v oblasti sanitarno-khimicheskogo analiza; ra-  
bota po promyshlennno-sanitarnoi khimii. Moskva, Medgiz, 1962.  
263 p. (MIRA 16:1)

(CHEMISTRY, ANALYTICAL) (SANITARY ENGINEERING)

BYKHOVSKAYA, M. S.

PHASE I BOOK EXPLOITATION

SOV/6076

Peregud, Yeva Abramovna, Mariya Solomonovna Bykhovskaya, and Yelena Vladimirovna Gernet

Bystryye metody opredeleniya vrednykh veshchestv v vozdukhe (Rapid Methods for Detecting [the Presence of] Harmful Substances in the Air). Moscow, Goskhimizdat, 1962. 272 p. Errata slip inserted. 10,000 copies printed.

Ed. (Title page): I. M. Korenman, Doctor of Chemical Sciences, Professor;  
Ed.: L. N. Oderberg; Tech. Ed.: V. V. Kogan.

PURPOSE: This book is intended for chemists in scientific research institutes, factory laboratories, sanitary-epidemiological stations, and poison-gas treatment stations.

COVERAGE: The book deals with rapid methods for the detection of harmful substances in the atmosphere in factories, wells, tanks, chemical apparatus, and ventilation ducts. A detailed description is given of apparatus for collecting

Card 1/4 2

Rapid Methods (Cont.)

SOV/6076

samples, sampling techniques and procedures, and reagents for toxic concentrations of ammonia, nitrogen oxides, hydrogen sulfide, carbon disulfide, sulfur dioxide, etc. The use of pencil indicators for rapid indication and quantitative determination of poison gases in the air is listed as a new technique. The introduction notes that the Vsesoyuznyy nauchno-issledovatel'skiy institut okhrany truda (All-Union Scientific Research Institute of Industrial Hygiene) in Leningrad aided in the development of the linear-colorometric method for the determination of toxic concentrations in the air. Ye. D. Filyanskaya, T. N. Kozlyayeva, and I. G. Vorokhobin also contributed to the development of the linear-colorometric method and designed some of the equipment used. Individual chapters are accompanied by references.

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BYKHOVSKAYA, M.S.

Determination of manganese cyclopentadienyltricarbonyl in the  
air. Trudy Kom.anal.khim. 13:115-123 '63. (MIRA 16:5)

1. Institut gigiyeny trudy a professional'nykh zabolevaniy AMN  
SSSR.

(Air--Analysis)

(Manganese organic compounds)  
\*

L 12779-63  
 EWP(j)/EPP(c)/EWT(m)/BDS AFFTC/APGC Pc-4/Pr-4 RM/MAY/BW/WW/MN  
 ACCESSION NR: AP3001523 S/0032/63/029/006/0667/0668 69  
 AUTHOR: By\*khovskaya, M. S. 68

TITLE: Determination of cyclopentadienyltricarbo<sup>1</sup>nyl-manganese vapors in the air  
 SOURCE: Zavodskaya laboratoriya, v. 29, no. 6, 1963, 667-668

TOPIC TAGS: cyclopentadienyltricarbo<sup>1</sup>nyl-manganese, anti-knock substance, adsorption, silica gel

ABSTRACT: Due to the effective anti-knock properties of cyclopentadienyltri-  
 carbonyl-manganese (CPIM) for internal combustion engines (as well as its 50  
 times lower toxicity as compared with tetraethyl lead), it was deemed desirable  
 to work out a method for the determination of its vapors in the air. To this  
 end 20-200 liters of air were absorbed by 2 grams of granular silica gel,  
 followed by treatment with concentrated nitric and sulfuric acids with heating.  
 After dilution with water, the anti-knock substance was extracted by ethanol, the  
 solution subjected for 10 minutes to ultraviolet irradiation, the alcohol evapo-  
 rated, and the residue oxidized by sulfuric acid with potassium periodate. The  
 resulting substance was subjected either to photometric determination at a wave  
 length of 520 Millimicrons or to polarographic evaluation, starting with -0.35  
 volt. The accuracy of the method is 20%.  
 Card 1/2/ Institute of Labor Hygiene and Professional Diseases, Academy of Med. Sciences



ZEFIROV, N.S.; YUR'YEV, Yu.K.; PRIKAZCHIKOVA, I.P.; BYKHOVSKAYA, M.Sh.

3,6-Endoxo-cyclohexanes and -cyclohexenes. Part 12: Stereochemistry  
of nucleophilic addition on a C=C bond in the systems of  
3,6-endoxo-cyclohexene and 3,6-endoxo-cyclohexadiene. Zhur.ob.khim.  
33 no.7:2153-2158 J1 '63. (MIRA 16:8)  
(Cyclohexene) (Cyclohexadiene) (Stereochemistry)

1 25618-65 EPF(c)/ENT(m)/T Pr-4 DJ

ACCESSION NR: AR40411479

S/0081/64/000/013/P033/E034

24  
17  
18

SOURCE: Ref. zh. Khimiya, Abs. 13P243

AUTHOR: Ramayya, K. S.; Sil's, R. Kh.; Krivoruchenko, N. T.; Bykovskaya, G. A.

TITLE: Resin formation and increase in viscosity of motor oils during their oxidation

CITED SOURCE: Tr. Tsentr. n.-i. avtomob. i avtomotorn. in-ta, vy p. 60, 1963, 59-66

TOPIC TAGS: motor oil, lubricating oil, oil viscosity, oil oxidation, resin formation, precipitate formation, oil additive, thiophosphate additive

TRANSLATION: Oils were oxidized in the DK-2 device by the NAMI method at 200C for periods up to 70 hours. The oxidized oil was diluted with petroleum ether and the precipitate formed was filtered off. From part of the filtrate, the resins were isolated by adsorption on silica gel, while from the remainder of the filtrate, an oil was obtained which contained resins but did not contain precipitate. From the viscosity ( $v_T$ ) of the oxidized oil which contained resins but did not contain precipitate and the viscosity ( $v_0$ ) of the same oil following

Card 1/2

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ACCESSION NR: AR4048479

1  
removal of the resins, the authors calculated the specific viscosity as the ratio  $(v_r - v_0)/v_0$ . The content of precipitate and resin and the specific viscosity in the oxidized motor mineral oils AS-6, AS-9.5 and DS-11, without additives and with various additives, were then determined. The results showed that the specific viscosity is a useful index of the accumulation of resins in the oil during oxidation. The addition of thiophosphate additives (AN-22, V-353, DF-11, DF-1, Orobis-267, Monto-493) to the oil increased the precipitate formation, and in most cases also decreased the specific viscosity. Detergent additives containing Ca and Ba decreased resin formation in the oils. A. Ravikovich ||

SUB CODE: FP, MT

ENCL: 00

Cord 2/2

VOLODARSKIY, N.I.; BYKOVSKAYA, I.P.

Effect of varying soil moisture on tobacco crop in connection with  
the developmental period. Dokl. AN SSSR 95 no.1:187-190 Mr '54.  
(MLRA 7:3)

1. Kubanskiy sel'skokhozyaystvennyy institut Krasnodar.  
(Tobacco) (Soil moisture)

BYKOVSKAYA, I. P.

"Effect of Water-Supply Conditions on the Growth and Yield of Tobacco." Cand Agr Sci, Kuban Agricultural Inst, Min Higher Education USSR, Krasnodar, 1955. (KL, No 11, Mar 55)

SO: Sum No. 670, 29 Sep 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

Country : USSR  
CATEGORY :

M-7

ABS. JOUR. : RZBiol., No. 19 1959, No. 87183

AUTHOR : Volodarskiy, N.I.; Bykovskaya, I.P.; \*  
INST. : Academy of Sciences USSR

TITLE : Dynamics of Growth Processes and Crop Development of Tobacco Under Different Conditions of Water Supplying to the Plants.

ORIG. PUB. : Sb: Biol. osnovy oroshayem. zemled. Mosccw, AN SSSR, 1957, 290-299

ABSTRACT : Experimental growing and field trials carried out in 1952-1954 at the Kuban Agricultural Institute have shown that during the first phase of growing (seedlings period and period of vernalization) the plants can withstand more or less prolonged drought without impairment of synthetic activities and ultimate yield. Moderate amount of moisture, during this period, elicits in the young plants adaptative reactions which bring about considerable enhancement of synthetic activity after their change-over to copious supply of water. The second phase of growth (the light-stage coinciding with the period of intensive growth) requires an ample supply of water. During this period inadequate humidification results in sharp lowering

CARD:1/2  
\* Sautich, Z.M.

COUNTRY : USSR  
CATEGORY :

M-7

ABS. JOUR. : RZBiol., No. 19, 195~~8~~<sup>8</sup>, No. 87183

AUTHOR :  
INST. :  
TITLE :

ORIG. PUB. :

ABSTRACT : of yield. During the next following period (beginning of flowering), when the formation of leaves of middle and lower tiers is essentially completed, water supply conditions no longer exercise a substantial influence on the yield of leaves. On the basis of the secured data there has been developed, for the areas of irrigated tobacco crops, a system of watering of tobacco during the seedlings- and field periods, in accordance with which moderate irrigation is provided at the beginning of growth, and a copious supply of water -- up to the start of flowering, which is then followed by moderate irrigation up to the harvesting of the leaves.-- L. A. Lomakina.

CARD: 2/2

ACCESSION NR: AT4026438

S/3082/63/000/008/0027/0033

AUTHOR: Bykovskaya, K. E.; Novskaya, A. I.; Trostnikov, M. V.

TITLE: Recurrence of natural synoptic periods in Siberia and the Far East

SOURCE: USSR. Glavnoye upravleniye gidrometeorologicheskoy sluzhby\*. Sbornik rabot po regional'noy sinoptike (Collection of works on regional forecasting), no. 8, 1963, 27-33

TOPIC TAGS: meteorology, natural synoptic period, weather forecasting, long-range weather forecasting

ABSTRACT: V. G. Shishkov (Meteorologiya i Gidrologiya, No. 4, 1957) studied synoptic macroprocesses in the area from the west coast of North America to the Yenisei, defined the recurrence of synoptic macroprocesses associated with quasi-periodic waves in the atmosphere, and on this basis proposed a method for weather forecasting one month in advance. Two prognostic schemes were proposed. No investigations had previously been made to improve the method for preparing monthly weather forecasts for the territory of the second natural synoptic period; this has now been done, and an investigation has been made of the applicability of Shishkov's prognostic schemes to the territory of the second natural synoptic period, specifically, Siberia and the Soviet Far East. The study was based on daily synoptic charts and  
Card 1/2



ACCESSION NR: AT4026438

pressure pattern charts of the northern hemisphere for 0300 hours Moscow time for the period from December 1956 through August 1958. During this period there were 115 natural synoptic periods. A study was made of synoptic processes for 45, 75, 90 and 150 days before each of the initial natural synoptic periods from the eastern regions of the Atlantic and 45, 75, 90 and 150 days after the initial periods in the territory of the second natural synoptic period. It was found that in long-range weather forecasting it is possible to use Shishkov's scheme 1, 1a with considerable success, while scheme 2, 2a gives unsatisfactory results. Full comprehension of this analysis requires familiarity with Shishkov's paper cited above and its further development (Trudy TsIPa, No. 71, 1958). Orig. art. has: 1 table.

ASSOCIATION: Glavnoye upravleniye gidrometeorologicheskoy sluzhby\* (Main Administration of the Hydrometeorological Service)

SUBMITTED: 00

DATE ACQ: 16Apr64

ENCL: 00

SUB CODE: AS

NO REF SOV: 004

OTHER: 000

Card 2/2

CHAZOV, Ye.I.; USHKALOV, A.F.; KLEBOVSKIY, A.I.; Primala uchastiye  
BYKOVSKAYA, K.N. (Moskva)

Early arterial changes in experimental atherosclerosis in monkeys. Arkh.  
pat. 25 no.11:29-37 '63. (MIRA 17:12)

1. Iz patologoanatomicheskoy laboratorii (zav. - doktor med. nauk, prof.  
A.M.Vikhert) Instituta terapii (dir. - deystvitel'nyy chlen AMN SSSR  
prof. A.L.Myasnikov) AMN SSSR.

BYKOVSKAYA, K.N.; VIKHERT, A.M. (Moskva)

Experimental glomerulonephritis induced by cavelti's method. Arkh.  
pat. 27 no.1:23-31 '65. (MIRA 18:4)

1. Institut terapii (dir. - deystvitel'nyy chlen AMN SSSR prof.  
A.L.Myasnikov) AMN SSSR.

BYKOVSKAYA, L.

USSR/Electricity  
Arcs  
Oscillations

Jul/Aug 46

"Spontaneous Electrical Oscillations in Low-Pressure Arc Discharge," B. Granovskiy, L. Bykovskaya, All-Union Electrotech Inst, 9 pp

"Journal of Physics USSR" Vol X, No 4

Study of four modes of spontaneous oscillations of current and voltage in a low-pressure mercury-arc discharge arising in a circuit, lacking both capacitance and inductance; random voltage oscillations with an anchored cathode spot; regular oscillations of low radio frequencies; and acoustic frequencies. Discussed possible mechanism of their generation. Received, 16 Nov 1945.

PA 54T49

BYKOVSKAYA, L. I.

BYKOVSKAYA, L. I. "The activity of vitamin B<sub>1</sub> in combination with other prophylactic agents on the constrictive activity of the uterus", Trudy Smol. gos. med. in-ta, Vol. II, 1948, p. 220-29.

SO: U-4393, 19 August 53, (Letopis 'Zhurnal 'nykh Statey', No. 22, 1949).

BYKOVSKAYA, L. I.

BYKOVSKAYA, L. I. "A case of malignant myoma of the hepatic region", Trudy Ssol.  
gos. med. in-ta, Vol. II, 1948, p. 340-43.

SO: U-4393, 19 August 53, (Letopis 'Zhurnal 'nykh Statey', No. 22, 1949).

BYKOVSKAYA, L.I., kand.med.nauk

Estrogen metabolism in women with fibromyoma of the uterus, Akush.  
i gin. 35 no.5:86-94 S-0 '59. (MIRA 13:2)

1. Iz akushersko-ginekologicheskoy kliniki Smolenskogo meditsinskogo  
instituta (zaveduyushchiy kafedroy - prof. S.M. Klayn) i endokrino-  
logicheskoy laboratorii (zaveduyushchiy - doktor biolog.nauk Ye.A.  
Kakushkina) Instituta akusherstva i ginekologii Ministerstva zdravookh-  
raneniya RSFSR.

(ESTROGENS, metabolism)

(UTERUS, neoplasms)

(LEIOMYOMA, metabolism)

BYKOVSKAYA, L.I., dotsent

Clinical and anatomical analysis of uterine fibromyomas in relation to age. Trudy SMI 17:51-61 '63.

(MIRA 18:1)

1. Iz kafedry akusherstva i ginekologii (zav. - dotsent K.K. Komesheko) Smolenskogo gosudarstvennogo meditsinskogo instituta i endokrinologicheskoy laboratorii instituta akusherstva i ginekologii Ministerstva zdravookhraneniya RSFSR (zav. laboratoriyey prof. Ye.A. Kakushina).



BYKOVSKAYA, Ye.V.; POLEVAYA, N.I.; PODGORNAYA, N.S.

Absolute chronology of Mesozoic and Cenozoic volcanic and  
intrusive formations in the Olga-Tetyukhe area. Sov.geol.  
3 no.5:107-114 My '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy  
institut.  
(Tetyukhe region (Maritime Territory)—Geology, Stratigraphic)

BYKOVSKAYA, Ye.V.; POLEVAYA, N.I.

Absolute age of volcanic formations in the Badzhal and Burein Ranges.  
Izv. AN SSSR. Ser. geol. 25 no.10:86-91 0 '60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut,  
Leningrad.

(Badzhal Range--Volcanoes)

(Burein Range--Volcanoes)

BYKOVSKAYA, Ye.V.

Petrochemical characteristics of Mesozoic and Cenozoic volcanic  
rocks on the eastern slope of the southern Sikhote-Alin' Range.  
Zap.Vses.min.ob-va 89 no.2:195-207 '60. (MIRA 13:7)  
(Sikhote-Alin' Range—Rocks, Igneous)

BYKOVSKAYA, Ye.V.; ROTMAN, V.K.

Geological position of ignimbrites in different volcanic zones  
of the Far East. Trudy Lab. vulk. no.20:151-156 '61.(MIRA 14:11)

1. Vsesoyuznyy geologorazvedochnyy nauchno-issledovatel'skiy  
institut Ministerstva geologii i okhrany neдр SSSR.  
(Soviet Far East--Volcanic ash, tuff, etc.)

BYKOVSKAYA, YE. V., CAND GEOL-MIN SCI, <sup>II</sup> THE STRATIGRAPHY  
AND PETROLOGY OF THE UPPER MESOZOIC AND GENOZOIC VOLCANO-  
GENIC FORMATIONS OF ~~THE~~ OL'GA-TETYUKHINSKIY RAYON. LENIN-  
GRAD, 1960. (MIN OF HIGHER AND SEC SPEC ED RSFSR, LENINGRAD  
ORDERS OF LENIN AND LABOR RED BANNER MINING INST IM G. V.  
PLEKHANOV). (KL, 2-61, 201).

BYKOVSKAYA, Ye.V.

Isolation of the coastal area of the development of volcanic  
rocks of the Sikhote-Alin' Range into an independent structural  
zone. Trudy VSEGEI 73:49-56 '62. (MIRA 15:9)  
(Sikhote-Alin' Range—Geology, Structural)  
(Rocks, Igneous)

*Bykovskaya, I. I.*

Investigation of the structure and properties of some heteropoly molybdenum and tungsten compounds with radioactive indicators. V. I. Spitsyn and Yu. I. Bykovskaya (M. V. Lomonosov State Univ., Moscow). *2*

*Jan 11/20*

*11/20*  
Dokl. Akad. Nauk S.S.S.R. 104, 250-4 (1955); C.A. 49, 15591i. — Mo<sup>99</sup>, W<sup>187</sup>, and P<sup>32</sup> were used in the study of the W and Mo compds. Na<sub>2</sub>H<sub>2</sub>[P(Mo<sub>2</sub>O<sub>7</sub>)<sub>4</sub>].18H<sub>2</sub>O, Na<sub>2</sub>H<sub>2</sub>[P(W<sub>2</sub>O<sub>7</sub>)<sub>4</sub>].16H<sub>2</sub>O, H<sub>2</sub>[Si(Mo<sub>2</sub>O<sub>7</sub>)<sub>4</sub>].7H<sub>2</sub>O, and Na<sub>2</sub>(PW<sub>6</sub>O<sub>21</sub>).20H<sub>2</sub>O. The rate of exchange of MoO<sub>4</sub> between the active Na<sub>2</sub>Mo<sub>2</sub>O<sub>7</sub> and the inactive Na<sub>2</sub>H<sub>2</sub>[P(Mo<sub>2</sub>O<sub>7</sub>)<sub>4</sub>].18 H<sub>2</sub>O, at a pH 1.2-11.0 (obtained by acidifying with HNO<sub>3</sub>) was measured in time intervals of 15 min. to 24 hrs. It is almost instantaneous at low pH values, and slower at lower acidity. The rate of exchange of inner-sphere constituents was studied with the luteo Na<sub>2</sub>(PW<sub>6</sub>O<sub>21</sub>).20H<sub>2</sub>O and the inactive silicomolybdic acid in an acid soln., and of the active luteo phosphotungstic acid with inactive Na<sub>2</sub>WO<sub>4</sub>. W. M. S.

*6*

*PM*

BYKOUSKAYA, YU. I.

5(8); 21(5) FRAISE I BOOK EXPLANTATION 207/1900  
 Akademiya nauk SSSR. Komissiya po analiticheskoj khimii  
 Primenyay radioaktivnykh isotopov v analiticheskoj khimii  
 (Use of Radioactive Isotopes in Analytical Chemistry) Moscow  
 Izd-vo M. SSSR, 1958. 306 p. [Series: Izv. Tрудy, t. 9 (12)]  
 Errata slip inserted. 3,000 copies printed.

Bezp. M. I. I.P. Alimarin, Corresponding Member, USSR Academy  
 of Sciences; M. of Publishing House: A.M. Terent'ev; Tech.  
 M.: S.V. Polyakova.

FRONTIS: The book is intended for chemists and chemical  
 engineers concerned with work in analytical chemistry.  
 COMMENTS: The book is a collection of the principal papers  
 presented in Moscow at the Second Conference on the Use of  
 Radioactive Isotopes. The problems discussed at the  
 Conference included coprecipitation, aging, and solubility  
 of precipitates, determination of the instability constants

Card 1/10

of complex compounds, separation of rare earth metals, and  
 ion-exchange chromatography. No personalities are mentioned.  
 There are 351 references, 175 of which are Soviet, 33 German,  
 19 French, 8 Swedish, 2 Hungarian, and 2 Czech.

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Bykovskaya, Yu. I. Determination of Niobium in the Presence of Large Quantities of Titanium	329

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BYKOVSKAYA, Yu. I., GRIZIK, A. A., and MARUNINA, N. I.

"Use and methodology of radioactive indicators."

report presented at The Use of Radioactive Isotopes in Analytical  
Chemistry, Conference in Moscow, 2-4 Dec 1957  
Vestnik Ak Nauk SSSR, 1958, No. 2, (author Rodin, S. S.)

BYKOVSKAYA, Yu.I.

Determination of tungsten and niobium in high alloys. Trudy kom.  
anal.khim. 9:323-328 '58. (MIRA 11:11)  
(Tungsten--Analysis) ( Niobium--Analysis)

BYKOVSKAYA, Yu.I.

Determination of niobium when large quantities of titanium are  
present. Trudy kem.anal.khim. 9:329-332 '58. (MIRA 11:11)  
(Niobium—Analysis)

S/137/62/000/003/188/191  
A154/A101

AUTHORS: Ponomarev, A. I.; Bykovskaya, Yu. I.

TITLE: A new method for determining small amounts of carbon

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 12, abstract 3 K 65  
("Tr. In-ta metallurgii, AN SSSR", 1961, vyp. 8, 237 - 241)

TEXT: A method was developed for determining small amounts of C, completed by colorimetry. Use was made of the possibility of determining C from the amount of U reacting with  $BaCO_3$  with formation of a complex salt difficultly soluble in water. To carry out the determination a device was designed in which  $BaCO_3$  is obtained by absorption of  $CO_2$ , formed in ignition of C in the sample, by a  $Ba(OH)_2$  solution in a cylindrical funnel with a porous filtering plate. 5 ml of a  $UO_2Cl_2$  solution is added to the  $BaCO_3$ . The resulting precipitate of barium-uranium complex salt is dissolved in HCl. The solution is transferred to a 50-ml re-tort and brought up to the mark. Colorimetry of U is carried out by arsenazo. A specific volume of the examined solution is put into a 10-ml calibrated cylinder, a 25 % solution of urotropine is added until Congo paper turns red, a 0.005 %

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A new method for determining small amounts of carbon  $A_{154}/A_{101}$  S/137/62/000/003/188/191

solution of arsenazo is poured in and the volume of solution brought up to 5 ml. The intensity of coloring of the obtained solution is compared with a scale of standard solutions of U. If the amount of U which has reacted with the  $BaCO_3$  is known, then the C content of the sample can be found from a calibration curve. The sensitivity of the method is 10% of C.

L. Vorob'yeva

[Abstracter's note: Complete translation]

Card 2/2

PONOMAREV, A.I.; BYKOVSKAYA, Yu.I.

New type of absorption vessel for the volumetric barite method  
of carbon determination. Trudy Inst. met. no.8:242-~~244~~ '61.  
(MIRA 14:10)

(Microchemistry)

(Carbon)

BYKOVSKAYA, Yu.I.

Quantitative isolation of tungsten. Trudy Inst.met. no.10:239-  
243 '62. (MIRA 15:8)

(Tungsten) (Hydrolysis)

BYKOVSKAYA, Yu.I.

Tilonometric indirect method of determining tungsten. Trudy Inst.  
met. no.10:244-245 '62. (MIRA 15:8)  
(Solutions (Chemistry)--Analysis) (Tungsten--Analysis)



BYKOVSKAYA, Yu.I.

Potentiometric determination of small amounts of carbon. Zhur.-  
anal.khim. 17 no.5:607-610 Ag '62. (MIRA 16:3)

1. A.A.Baikov Institute of Metallurgy, Moscow.  
(Carbon--Analysis) (Potentiometric analysis)

BYKOVSKAYA, Yu.I.

Methods of determining small quantities of carbon. Trudy Inst.  
met. no.12:268-275 '63. (MIRA 16:6)

(Metals—Analysis)  
(Carbon—Analysis)

1 58716-65 EWT(m)/EPF(n)-2/EPR/EWP(t)/EWP(b)/EWA(h) Ps-4/Peb/Pu-4 IJP(c)

JD/WW/JG

AM5016875

BOOK EXPLOITATION

UR/

669:543/545+543.42

Ponomarev, A. I., ed.

60  
25  
13+1

**Chemical and spectrum analysis in metallurgy; a practical handbook**  
(Khimicheskiy i spektral'nyy analiz v metallurgii; prakticheskoye rukovodstvo) Moscow, Izd-vo "Nauka", 1965. 382 p. illus., tables, index. (At head of title Akademiya nauk SSSR. Gosudarstvennyy komitet po chernoy i tsvetnoy metallurgii pri Gosplane SSSR. Institut metallurgii im. A. A. Baykova) Errata slip inserted. 3000 copies printed.

**TOPIC TAGS:** analysis, chemical analysis, physicochemical analysis, spectral analysis, slag analysis, steel analysis, iron analysis, alloy analysis, pure metal analysis, element determination, rare earth element determination, impurity determination

**PURPOSE AND COVERAGE:** This book is intended for specialists and workers at scientific-research and plant laboratories. The book describes chemical, physicochemical and spectral methods of analyzing slags, steels, irons, various alloys, and some pure

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L 58716-65

AM5016875

14

metals. The determination of rare and rare-earth elements is outlined. Part I of the book deals with the analysis of slags and the determination of basic elements and usual impurities, and describes methods of determining rare-earth elements. Part II deals with the analysis of cast irons and steels and describes, the determination of usual components and tungsten and molybdenum in the presence of niobium, as well as the determination of tantalum, niobium and cerium. Part III includes analysis of metallic chromium, niobium, titanium, nickel, and their alloys. Methods of determining cerium, indium, and gallium in metals and alloys are discussed along with the determination of rare-earth elements by applying the chromatographic method. Part IV deals with spectral analysis including photographic and other various methods. The following members of the Institute of Metallurgy participated in the work: A. A. Astanina, V. S. Nagibin, Ye. N. Kunenkova, Yu. I. Bykovskaya, L. I. Veselago, I. A. Golubeva, N. S. Gartaeva, A. S. Sitvatinskiy, A. N. Shcheynberg, H. V. Stepanina, and L. L. Lapchinskaya.

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SUB CODE: MM

SUBMITTED: 19Jan65

NO REF SOV: 133

OTHER: 015

DATE ACQ: 03Jun65

Card 513 *200P*

L 3438-66 EWT(m)/EWP(t)/EWP(b) JD/GS

ACCESSION NR: AT5023102

UR/0000/65/000/000/0285/0289

40  
B+1

AUTHOR: Bykovskaya, Yu. I.  
55

TITLE: Determining the lower degrees of the oxidation of niobium in the electro-  
lysis products during the production of pure niobium

SOURCE: Problemy bol'shoy metallurgii i fizicheskoy khimii novykh splavov  
(Problems of large-scale metallurgy and physical chemistry of new alloys); k 100-  
letiyu so dnya rozhdeniya akademika M. A. Pavlova. Moscow, Izd-vo Nauka, 1965,  
285-289  
35 27

TOPIC TAGS: niobium, valence band, high purity metal, titrimetry  
16

ABSTRACT: The object of this investigation was to determine the quantitative  
aspects of the partial reduction of Nb occurring in the process of the product-  
ion of pure Nb by electrolysis and to develop a fast and reliable method of de-  
termining the reduced Nb. The handling of solutions containing Nb with the lower  
degrees of oxidation involves considerable difficulties, since, owing to the suf-  
ficiently negative potential of the system  $Nb^{3+}/Nb^{5+}$ ,  $E = -0.37$  v, niobium is  
very readily oxidized in air, changing into compounds with higher valences. It

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follows hence that work with Nb compounds with lower valences requires a rigorously inert atmosphere or indirect methods of  $Nb^{3+}$  determination, e.g. through interaction of  $Nb^{3+}$  with  $Fe^{3+}$  so as to form  $Fe^{2+}$  which is sufficiently stable in air and may be titrated by means of an appropriate oxidizing agent without resorting to an inert-gas atmosphere. Back-titration also is possible, e.g. through the reaction of the oxidation of  $Nb^{3+}$  by ammonium vanadate ( $NH_4VO_3$ ) with subsequent titration of the excess  $NH_4VO_3$ . Proceeding from these premises, three different methods of determining reduced niobium ( $Nb_2O_3$ ) are proposed. The first method is based on the reaction  $Nb^{3+} + Fe^{3+} \rightarrow Fe^{2+} + Nb^{5+}$ , i.e. on the interaction between reduced Nb and trivalent Fe and subsequent oxidation of the resulting divalent Fe by a  $K_2Cr_2O_7$  solution. The second method is based on the reaction  $Nb^{3+} + V^{5+} \rightarrow Nb^{5+} + V^{4+}$ , i.e. on the interaction between the reduced Nb and pentavalent vanadium ( $NH_4VO_3$ ) and subsequent titration of the excess  $NH_4VO_3$  with a 0.5 N solution of Mohr's salt. Finally, the third method consists in the direct determination of reduced Nb, i.e. its direct titration by some oxidizing agent, e.g. iron alums, within a tightly sealed system and in the presence of a strong current of inert gas ( $CO_2$ ). It is shown that the behavior of the reduced Nb is the same whatever the medium ( $H_2SO_4$ ,  $H_3PO_4$ ,  $HCl$ ) used to decompose the specimens, clearly

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ACCESSION NR: AT5023102

because the reduced Nb in the specimens analyzed is present in only one valent state, namely, in the form of Nb<sup>3+</sup>, since this is the most stable form. Orig. art. has: 4 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, GC

NR REF SOV: 000

OTHER: 000



Card 3/3

BYKHOVSKIY, A. [Bykhovs'kiy, A.], kand.fiz.-matem.nauk; RAVIKOVICH, S.,  
kand.fiz.-matem.nauk

Eye and colors. Nauka i zhyttia 12 no.9:25-26 S '62.

(Color sense)

(MIRA 16:1)

BYKOVSKIY, A. D.

Novye metody termicheskoi obrabotki otvalov i lemekhov. Moskva, Mashgiz, 1948.  
49(3) p. illus., 18 plates.

Bibliography: p.(51).

(New methods of heat treatment of moldboards and plowshares.)

DLC: TJJ482.B9

SO: Manufacturing and Mechanical Engineering in the Soviet Union,  
Library of Congress, 1953.

BYKOVSKIY, A.F.

Rhinocytoscopy in influenza. Vop.virus. 4 no.2:143-145  
Mr-Apr '59. (MIRA 12:6)

1. Kafedra mikrobiologii Kurskogo meditsinskogo instituta.  
(INFLUENZA, pathol.  
nasal cytol. changes (Rus))  
(NASAL CAVITY, pathol.  
in influenza (Rus))

RAVICH-SHCHEBBO, M.I.; BATALIN, V.I.; BYKOVSKIY, A.F.

Use of paper disks in determining penicillin concentration in whole blood. Lab. delo 5 no.1:42-46 Ja-F '59. (MIRA 12:3)

1. Iz kafedry biologicheskoy khimii (zav. - prof. M.I. Ravich-Shcherbo) i kafedry mikrobiologii (zav. - prof. A.M. Brusin) Kurskogo meditsinskogo instituta.  
(BLOOD--ANALYSIS AND CHEMISTRY)  
(PENICILLIN)

AVAKYAN, A.A.; AL'TSHEYN, A.D.; KIRILLOVA, F.M.; BYKOVSKIY, A.F.

Means for the improvement of laboratory smallpox diagnosis. Vop.  
virus. 6 no.2:196-203 Mr-Apr '61. (MIRA 14:6)

1. Laboratoriya morfologii virusov i elektronnoy mikroskopii  
Instituta po izucheniyu poliomyelita AMN SSSR, Moskva.  
(SMALLPOX)

BYKOVSKIY, A.F.; VORONINA, F.V.

Anatomy and ontogeny of the adenoviruslike simian virus TK-11M.  
Vop. virus. 10 no.2:156-164. Mar-Apr '65.

(MIRA 18:10)

1. Institut epidemiologii i mikrobiologii imeni N.F.Gamalei AN  
SSSR, Moskva.



BYKOVSKIY, A.F.

Improved method of embedding objects in methacrylate for preparation of ultrathin sections. Vop.virus 6 no.4:500-503 J1-Ag '61. (MIRA 14:11)

1. Institut po izucheniyu poliomyelita AMN SSSR, Moskva.  
(TISSUE CULTURE)  
(BIOLOGICAL SPECIMENS--COLLECTION AND PRESERVATION)

BYKOVSKIY, A.F.; BAZYLEV, P.M.; PROKHOROVA, E.M.

Electron microscopic study of the virus of Aujeszky's disease.  
Veterinariia 41 no.12:13-15 D '64. (MIRA 18:9)

1. Institut epidemiologii i mikrobiologii im. Gamalei (for Bykovskiy).
2. Gosudarstvennyy nauchno-kontrol'nyy institut veterinarnykh preparatov (for Bazylev, Prokhorova).

E 18443-63 EPF(c)/EWT(m)/BDS Pr-4 RM/WW S/2912/62/000/000/0079/0082  
ACCESSION NR: AT3001898 58  
56

AUTHOR: By \*khovskiy, A. I.

TITLE: Mechanisms of the growth of naphthalol crystals from a fusion

SOURCE: Kristallizatsiya i fazovyye perekhody\*. Minsk, Izd-vo AN BSSR, 1962, 79-82

TOPIC TAGS: crystal, crystallization, crystallography, naphthalol, growth, mechanism

ABSTRACT: The paper reports the author's analysis of experimental data obtained by L. O. Meleshko (IFZh, v.3, 1960, 96) to identify the crystal-growth mechanism that prevails in the growth of naphthalol (NL) crystals from a fusion and, more specifically, the 3 modifications found by Meleshko, namely: (1) Dark crystals; (2) milky-white crystals; (3) crystals with an altered external shape. A plot of  $\log v / (\Delta T)^2 = \log A - U_2 / RT$  (where  $v$  is the linear rate of growth of the crystal (LCR),  $A$  is a constant,  $U_2$  is the energy of activation (EA), and  $T$  is the temperature and  $\Delta T$  is taken from  $T_0=93^\circ C$ ) versus  $1/T$  adduces a strong argument in favor of a dislocational growth mechanism of crystals of the dark variety of NL from a fusion. The numerical values for the constants were found as follows:

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ACCESSION NR: AT3001898

2

$A = 3.8 \cdot 10^5$  cm/sec;  $U_2 = 17.6$  kcal/g-mol; at supercooling  $\Delta T$ 's in excess of  $40^\circ$  it is found that  $v$  decreases more steeply with a lowering in  $T$ ; this is found to be in accord with the theory of W. B. Hillig and D. Turnbull (J. Chem. Phys., 1956, 914). The results presented here indicate equally convincingly that the milky-white variety of NL crystals grows by the mechanism of two-dimensional nucleation. It would be of great interest to obtain direct experimental data on the mechanism of the crystal growth, for example, by an observation of the various stages of their growth. It would also be of interest to investigate experimentally the kinetics of the transformation of one crystalline form of NL into another. "In conclusion I take this opportunity to express my gratitude to Candidates of Physico-Mathematical Sciences M. A. Krivoglaz and A. A. Chernov for their interest in my work and their discussion of its results." Orig. art. has 1 figure.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 16Apr63

ENCL: 00

SUB CODE: CH, PH, MA.

NO REF SOV: 005

OTHER: 003

Card 2/2

SVIRIDENKO, Sergey Kharitcnovich; BARAB-TARLE, Matus' Yeleovich;  
MIZHEVSKIY, Lev Leonidovich; RASHKOVICH, Mikhail Pavlovich;  
SRIBNER, Leonid Andreyevich; SHRAGO, Leonid Konstantinovich;  
ORLIKOV, M.L., kand. tekhn. nauk, retsenzent; ROMANOV, A.I.,  
inzh., red.; BYKOVSKIY, A.I., inzh., red.; GORNOSTAYPOL'SKAYA,  
M.S., tekhn. red.

[Program control of jig drilling machines] Programmnoe upravle-  
nie koordinatno-sverlil'nyimi stankami. Moskva, Mashgiz, 1962.  
87 p. (MIRA 15:9)

(Drilling and boring machinery---Numerical control)

PYASIK, Iosif Borisovich; TURPAYEV, A.I., kand. tekhn.nauk, retsenzent;  
GOLUB, V.M., inzh., red.; BYKOVSKIY, A.I., inzh., red.;  
GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Ball-screw mechanisms] Sharikovintovye mekhanizmy. Moskva,  
Mashgiz, 1962. 122 p. (MIRA 15:3)  
(Gearing, Worm) (Ball bearings)

MATSIYEVSKIY, Anatoliy Gavrilovich; ERLIKH, Lazar' Borisovich; Prinimani  
uchastiye: SLEZINGER, I.N., kand.tekhn.nauk, dots.; MENAKER, L.S.,  
inzh.; RABINOVICH, I.Sh., inzh.; SVIRIDENKO, S.Kh., red.; ORLIKOV,  
M.L., dots., retsenzent; BYKOVSKIY, A.I., inzh., red.;  
GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Efficient organization of machine-tool design] Ratsionalizatsiia  
raschetov pri konstruirovani stankov. Pod red. S.Kh.Sviridenko.  
Moskva, Mashgiz, 1962. 127 p. (MIRA 15:7)  
(Machine tools--Design)

DOBROVOL'SKIY, Viktor Afanas'iyevich; ZABLONSKIY, Konstantin Ivanovich;  
MAK, Solomon L'vovich; RADCHIK, Aleksandr Semenovich; ERLIKH,  
Lazar' Borisovich; PYATNITSKIY, A.A., prof., retsenzent;  
ACHERMAN, N.S., doktor tekhn. nauk, prof., otv. red.;  
BYKOVSKIY, A.I., inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn.  
red.

[Machine parts] Detali mashin. Izd. 6., dop. Moskv, Mashgiz,  
1962. 601 p. (MIRA 16:5)  
(Machinery)



BYKOVSKIY, A. S.

USSR/Geological Prospecting  
Coal

Feb 1947

"Certain Regularities Observed When Studying Coal and Their Practical Significance,"  
I. A. Khizman, A. S. Bykovskiy, 4 pp

"CR Acad Sci" Vol LV, No 4. pp. 343-46

While searching for method to check analytical data determining calorific value of coal, authors discovered functional relation between calorific value and combustible mass was specific for each coal deposit. To clarify this relationship authors used materials from Central Laboratory of Bashkir Geological Administration obtained from tests of following brown-coal deposits: Alsheyevskoye, Zilimskoye, Krivlevskoye, Kuyurgazinskoye, Staro-Mikhailovskoye, Surakaiskoye, Talalayevskoye, Ushkatlinskoye, including data from Donets basin, etc. Presents results graphically, Submitted by P. I. Stepanov, 16 Sep 1946.

PA 59T36

BYKOVSKIY, B.M.; SHAPOVALOVA, V.A.

Memory cell for feeding electroluminophor indicators. Avtom.i prib. no.1:  
85-86 Ja-Mr '63. (MIRA 16:3)

1. Lisichanskiy filial Instituta avtomatiki Donetskogo soveta  
narodnogo khozyaystva.  
(Magnetic memory (Calculating machines))

PA 193T32

BYKOVSKIY, B. N.

USSR/Engineering - Strength of Materials Oct 51

"Variation of Strength of Real Materials Under Prolonged Load," B. N. Bykovskiy.

"Zhur Tekh Fiz" Vol XXI, No 10, pp 1178-1183

It was found that materials like wood or concrete break down under prolonged load at tension below their tensile modulus. Author considers material as plastic viscous body and derives suitable formulas (cf. Ya. I. Frenkel', "Kinetic Theory of Liquids," 1945; A. R. Rzhanitsyn, "Design of Equipment Taking Into Account the Plastic Properties of Materials," 1949). Submitted 6 Jun 50.

193T32

BYKOVSKIY, B. S.

BYKOVSKIY, B. S. "Treating purulent mastitis by burning through", (The Ozero method),  
Trudy Smol. gos. med. in-ta, Vol. II, 1948, p. 112-77.

SO: U-4393, 19 August 53, (Letopis 'Zhurnal 'nykh Statey', No. 22, 1949).