

LAZOVATSKIY, G.A., inzh.

Ways of expanding the production of cheap crushed stone. Put' i
put.khoz. 5 no.10:18-19 0 '61. (MIRA 14:10)
(Quarries and quarrying)

BATALOV, V., putevoy obkhodchik (st. Matrosovka, Odesskoy dorogi);
ORLOV, G. T., brigadir puti (st. Millerovo, Yugo-Vostochnoy dorogi);
LAZOVATSKIY, G. A., inzh.; VLASENKO, F. P.; BYCHKOV, L. Ya.,
mekhanik (st. Nikel'-Tau, Kazakhskoy dorogi)

Letters to the editor. Put' i put. khoz. 6 no.9:47 '62.
(MIRA 15:10)

1. Zaveduyushchiy masterskimi, st. Nikel'-Tau, Kazakhskoy dorogi
(for Vlasenko).

(Railroads)

LAZOVIC, Dusan, profesor

Another method of education at the Medical Military Academy.
Vojnosanit. pregl. 20 no.3:143-145 Mr '63.

(EDUCATION, MEDICAL) (MILITARY MEDICINE)

5

LAZOVIC, Dusan, profesor

On some aspects of the educational nature of military medical schools. Vojnosanit. pregl. 20 no.3:155-160 Mr '63.

(EDUCATION, MEDICAL) (MILITARY MEDICINE)

5

LAZOVIC, Dusan, prof.

Educational and methodological training of the teaching personnel
in the Military Medical Academy. Vojnosanit. pregl. 20 no.9:573-
576 S '63.

1. Vojnomedicinska akademija u Beogradu.

S

LAZOVIC, J.P.; SIMOVLJEVIC, J.L.

Observations of the total solar eclipse, made at Nis February 15, 1961.
Glas prir mat SANU no.254:7-13 '63.

L AZOVIC MILORAD

YUGOSLAVIA/Chemical Technology. Chemical Products and Their I-2
Application. Elements. Oxides. Mineral Acids.
Bases. Salts.

Abs Jour : Ref Zhur - Khimiya, No 2, 1958, 5212.

Author : Lazovic Milorad

Inst : Not Given.

Title : Filling of Pyrite Furnaces.

Orig Pub : Kemija u industriji, 1956, 5, No 5, 88-90

Abstract : Calculations and corresponding equations are
proposed for determining the filling of the fur-
nace with pyrite at any point of time.

Card : 1/1

JOSIPOVIC, V.; LAZOVIC, V.

Partial embolic infarcts of myocardium during subacute bacterial endocarditis. Srpski arh. celok. lek. 83 no.4: 502-509 Apr 55.

1. IV Interna klinika Medicinskog fakulteta u Beogradu.
Upravnik: Cedomir Plavisić.

(ENDOCARDITIS, SUBACUTE BACTERIAL, compl.
partial embolic myocardial infarct. (Ser))
(MYOCARDIAL INFARCT, compl.
subacute bact. endocarditis (Ser))

LAZOVIC, VERA

BOZIKOVIC, Ljubica; LAZOVIC, Vera; JOCIC, Andjelija; PETKOVIC, Darinka

2 Cases of mycotic aneurysms during subacute bacterial endocarditis. Srpski arh. celok. lek. 84 no.4:536-543 Apr 56.

1. IV Interna klinika Medicinskog fakulteta u Beogradu.
Upravnik: Cedomir Plavsic. Patoloski Institut Medicinskog fakulteta u Beogradu. Upravnik: Ksenofon, Sahovic. Sudsko-medicinski institut Medicinskog fakulteta u Beogradu.
Upravnik: Julijana Bogicevic.

(ENDOCARDITIS, SUBACUTE BACTERIAL, compl.

aneurysm of aorta & splenic artery, case reports (Ser))

(ANEURYSM,

splenic artery, in bact. subacute endocarditis, with aorta aneurysm (Ser))

(SPLENIC ARTERY, aneurysm,

with aortic aneurysm in bact. subacute endocarditis (Ser))

(AORTIC ANEURYSM, compl.

aneurysm of splenic artery in bact. subacute endocarditis (Ser))

KOSANOVIC, Bogdan, prof.dr.; LAZOVIC, Viktor, asist. dr.

The knowledge and treatment of pancreatic pseudocysts. Srpski
arh. celok. lek. 82 no.6:819-826 June 54.

1. Hirurako odeljenje Gradske bolnice u Beogradu, sef prof. dr.
Bogdan Kosanovic, (Rad je urednistvo primilo 15.I.1954 god.)
(PANCREAS, cysts
pseudocyst, surg.)
(CYSTS
pancreas, pseudocyst, surg.)

KOSANOVIC, Bogdan, Prof. dr; LAZOVIC, Viktor; dr.

Struma maligna. Med.glasn.9 no.6:227-230 June '55.

1. Hirursko odeljenje Gradske bolnice u Geodradu (upravnik prof.
dr B. Kosanovic)
(THYROID GLAND, neoplasms)

KOSANOVIC, Bogdan; Djordjevic, Zivota; LAZOVIC, Viktor

Indications for surgical treatment of thyroid gland diseases.
Med. glasn. 10 no.4-5:166-169 Apr-May 56.

1. Hirursko odeljenje Gradske bolnice u Beogradu (Upravnik;
B. Kosanovic).

(GOITER, surg.
indic. & statist. (Ser))
(HYPERTHYROIDISM, surg.
same)

LAZOVIC, Viktor; NIKOLIC, Miroslav

Lingual carcinoma in a young adult with metastases to tuberculous cervical lymph nodes. Srpski arh. celok. lek. 84 no.5:677-682 May 56.

1. Hirursko odeljenje Gradske bolnice u Beogradu. Sef: prof. dr. Bogdan Kosanovic. Odeljenje za uvo, nos i grlo Gradske bolnice u Beogradu. Sef: prim. dr. Bozidar Sekulic.

(TONGUE, neoplasms,
metastases to tuberc. cervical lymph nodes (Ser))
(TUBERCULOSIS, LYMPH NODE, complications,
cervical metastases from tongue in tuberc., lymphadenitis
(Ser))

ZEC, R.; LAZOVIC, V.; SIMIC, M.

Our experience with liver cirrhosis. Med.arh., Sarajevo 14 no.6:103-116 N-D '60.

1. II Interna klinika Medicinskog fakulteta u Sarajevu (Sef: prof. d-r Miron Simic)
(LIVER CIRRHOSIS case reports)

JEVTIC, Z., doc. dr.; BUCIC, M., prof. dr.; ZEC, R., dr.; LAZOVIC, V., dr.

6 fatal cases in atabrine therapy of taeniasis, Med. glas.
16 no.6/6a:285-287 Je '62.

1. Institut za Sudsku medicinu u Sarajevu (Upravnik: prof. dr.
M. Bucic).

(QUINACRINE) (TAPEWORM INFECTION)

5

SIMIC, B. S.; STOSIC, S.; RAKOVIC, V.; LAZOVIC, Z.; MARKOVIC, R.; NIKOLIC, D.;
LALOVIC, O.; DOKMANOVIC, M.

Nutrition and nutritional conditions of female students in the home
"Vera Blagojevic". Hemoglobin, total serum proteins and hematocrit
as indices of nutritional conditions. Glas. hig. inst. 9 no.3/4:51-57
Jl-D '60.

(NUTRITION SURVEYS) (HEMOGLOBIN) (BLOOD PROTEINS)
(BLOOD CELLS) (STUDENTS)

SIMIC, B. S.; MARKOVIC, R.; STOSIC, S.; NIKOLIC, D.; LAZOVIC, Z.; RAKOVIC, V.;
LALOVIC, O.; DOKMANOVIC, M.

Nutrition and nutritional status of students. Some body characteristics
resulting from different forms of nutrition. Higijena 13 no.2:113-122
'61.

(NUTRITIONAL SURVEYS) (BODY WEIGHT)
(BODY HEIGHT) (STUDENTS)

LAZOVIC-TEPAVAC, O.

Pathogenesis of the dermoepidermitis. Bul sc Youg 7
no.1/2:9 F-Ap '62.

1. Dermatoveneroloska klinika Medicinskog fakulteta,
Sarajevo.

*

LAZOVSKAYA, A. [Lazouskaia, A.]

Teachers never grow old. Rab.i sial. 36 no.6:21 Je '60.

(MIRA 13:7)

(White Russia--Teachers)

GORODISSKAYA, G.Ya., prof., doktor med. nauk, otv. red.; BLOKHINA,
I.N., red.; GUSEVA, V.A., red.; DIKOVSKIY, F.F., red.;
ZIMINA, V.S., red.; LAZOVSKAYA, A.L., red.; PEROVA, R.S.,
red.

[Biochemistry of microbes] Biokhimiia mikrobov; sbornik
trudov. Gor'kii, 1964. 427 p. (MIRA 17:12)

1. Gorki. Gor'kovskiy nauchno-issledovatel'skiy institut
epidemiologii i mikrobiologii.

LAZOVSKAYA, A.L.

Change in the amino acid composition of a synthetic medium in the growth of Mycobacterium tuberculosis. Zhur.mikrobiol.epid.i immun. 33 no.5:67-68 My '62. (MIRA 15:8)

1. Iz Gor'kovskogo instituta epidemiologii i mikrobiologii. (MYCOBACTERIUM TUBERCULOSIS) (BACTERIOLOGY--CULTURES AND CULTURE MEDIA)

GORELIK, A.M.; RYBOLOVLEV, R.S.; TANK, L.I.; MOREVA, Ye.V.; LAZOVSKAYA, A.V.

Pharmacology and Toxicology Section of the Leningrad I.M. Sechenov Society
of Physiologists, Biochemists, and Pharmacologists. Farm. i toka. 16 no.1:
60-62 Ja-F '53. (MLRA 6:6)

1. VMMA (for Gorelik).
2. Pervyy Leningradskiy meditsinskiy institut (for Gorelik, Rybolovlev).
3. IEM (for Tank, Moreva and Lazovskaya).
(Pharmacology--Societies) (Physiology--Societies) (Biochemistry--Societies)

Handwritten signature or initials

LAZOVSKAYA, A. V.

"Synergism and Antagonism in the Pharmacological Effects of Potassium Ions and of Tetraethylammonium," Farm. i Tcks. Vol. 16, No. 1, p. 61. 1953

Inst. Exptl. Med., Acad. Med. Sci. USSR.

The exptl. data obtained confirm published material to the effect that there may be antagonism or synergism between K ions and tetraethylammonium (TEA). Antagonism was established in expts on the isolated heart of the frog (O. Levi) and synergism in expts on the isolated straight abdominal muscle of the frog by TEA and guanidine were compared. An outburst of hyperkinesis induced by TEA under the influence of dinitrophenol was detected.

12.10.1956
MANOYLOV, S.Ye.; LAZOVSKAYA, A.V.; ORLOV, B.A.

Effect of X-rays emitted from different anodes on the
work of an isolated frog heart. Dokl. AN SSSR 110 no.2:
305-307 S '56. (MLRA 9:12)

1. Tsentral'nyy nauchno-issledovatel'skiy rentgeno-
radiologicheskiy institut.
(X rays--Physiological effect)

LAZOVSKAYA, A.V.

Sorption capacity of nerve tissues in X-irradiated animals.
Vop.radiobiol. 2:102-109 '57. (MIRA 12:6)

1. Sotrudnik Tsentral'nogo nauchno-issledovatel'skogo rentgeno-
radiologicheskogo instituta Ministerstva zdravookhraneniya SSSR.
(RADIATION SICKNESS) (NERVES) (SORPTION)

LAZOVSKAYA, A.V.

Effect of S rays on the reactivity of animals during strophanthin
administration. Med.rad. 5 no.3:71-72 '60. (MIRA 13:12)
(X RAYS--PHYSIOLOGICAL EFFECT) (STROPHANTHIN)

LAZOVSKAYA, A-V

69

PHASE I BOOK EXPLOITATION

SOV/5435

Kiselev, P. N., Professor, G. A. Gusterin, and A. I. Strashinin, Eds.

Voprosy radiobiologii. t. III: Sbornik trudov, posvyashchenny 60-letiyu so dnya rozhdeniya Professora M. N. Pobedinskogo (Problems in Radiation Biology. V. 3: A Collection of Works Dedicated to the Sixtieth Birthday of Professor M[ikhail] N[ikolayevich] Pobedinskiy [Doctor of Medicine]) Leningrad. Tsentr. n-issl. in-t med. radiologii M-va zdravookhrananiya SSSR, 1960. 422 p. 1,500 copies printed.

Tech. Ed.: P. S. Peleshuk.

PURPOSE: This collection of articles is intended for radiobiologists.

COVERAGE: The book contains 49 articles dealing with pathogenesis, prophylaxis, and therapy of radiation diseases. Individual articles describe investigations of the biological effects of radiation carried out by workers of the Central Scientific Research Institute for Medical Radiology of the Ministry of Public Health, USSR. [Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii Ministerstva zdravookhrananiya SSSR] during 1958-59. The following

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Problems in Radiation Biology (Cont.)

SOV/5435

topics are covered: various aspects of primary effects of radiation; the course of some metabolic processes in animals subjected to ionizing radiation; reactions in irradiated organisms; morphologic changes in radiation disease; and reparation and regeneration of tissues injured by irradiation. Some articles give attention to the effectiveness of experimental medical treatments. No personalities are mentioned. References accompany almost all of the articles.

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Gusterin, G. A., and A. I. Strashinin. Professor Mikhail Nikolayevich Pobedinskiy (Commemorating his Sixtieth Birthday)	5
Lebedinskiy, A. V. [Member, Academy of Medical Sciences USSR], N. I. Arlashchenko, and V. M. Mastryukova. On the Mechanism of Trophic Disturbances Due to Ionizing Radiation	11
Zedgenidze, G. A., [Member, Academy of Medical Sciences USSR], Ye. A. Zherbin, K. V. Ivanov, and P. R. Vaynshteyn. Hormonal Activity of the Adrenal Cortex in Acute Radiation Sickness and the Effect of Desoxycorticosterone Acetate on the Disease	17

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Problems in Radiation Biology (Cont.)	SOV/5435	
Cherkasov, V. P. Reactions of the Cardiovascular System and the Respiration of Irradiated Animals to Some Functional Factors		35
Bryukhanov, O. A. Concerning the Problem of Depressant Reactions in Radiation Sickness		44
Lazovskaya, A. V. Effect of Strophanthin on the Heart of Irradiated Animals		50
Shitova, Z. I., and Ye. I. Komarov. On the Reflex Mechanism of the Change in Oxygen Absorption by Intestinal Tissue During Local Irradiation With Radioactive Strontium		55
Remizova, I. V. On Some Features of Functional Changes in the Nervous and Blood System During Repeated Small-Dose Irradiation		61
Traskunova, N. V. Effect of Blocking the Sympathetic Subdivision of the Vegetative Nervous System on the Development and Course of Acute Radiation Sickness		68
Card 3/10		

LAZOVSKAYA, A U.

(c)
Influence of Ionizing Radiation on Processes of Cholinergic Stimulation

A. M. Bunayev, G. A. Polchukova, A. V. Lazovskaya,
G. N. Alekseyeva and V. I. Skvortsova

The influence of ionizing radiation was studied on processes of cholinergic stimulation in various links of the reflex arc (the central nervous system, vegetative ganglions, neuromuscular synapses) in animals exposed to single total-body X-ray irradiation (100-50000 r). Experiments were carried out on cats, rabbits, white mice and frogs with different tests and methods (electro-encephalography, determination of the summation of nervous impulses, record of contraction in the small intestine and isolated skeletal muscle, determination of cholinesterase activity and cellular respiration efficiency when using pharmacological agents and enzyme poisons).

The investigations established a decrease in cholinergic structure sensitivity to analgesics, neuroplegics and gangliolytics, and an increase in cholinergic structure sensitivity to narcotics, anticholinesterastics, cholinimetics, curare-like and local anaesthetic substances.

These changes have a phasic character and they depend on the functional ability of the cholinergic structure and the degree of radiation injury.

The changes in the irradiated animal are apparently due (in addition to other factors) to the breakdown of

oxidative phosphorylation, the consequence of which may be the breakdown of the acetylcholine metabolism and a change of the cholinergic structure reaction to pharmacological agents.

The Central Research Institute of Medical Radiology of the Ministry of Health, Leningrad, USSR

report presented at the 2nd Intl. Congress of Radiation Research,
Harrogate/Yorkshire, Gt. Brit. 5-11 Aug 1962

S/219/63/055/002/003/004
D296/D308AUTHOR: Lazovskaya, A.V.

TITLE: Local anesthesia in animals exposed to radiation

PERIODICAL: Byulleten' eksperimental'noy biologii i meditsiny,
v. 55, no. 2, 1963, 63-67

TEXT: The author studied changes in the effect of superficial (terminal) conduction and infiltration anesthesia in animals exposed to ionizing radiation. In the experiments with superficial (terminal) anesthesia 10 rabbits were exposed to total irradiation with 100 r of X-rays. The effect of a local anesthetic (0.5% dicain) upon the sensitivity of the cornea was tested 1-2 hours, 1 day, 3, 5 and 7 days after irradiation, as well as in the nonirradiated control group. The sensitivity of the cornea was assessed by the number of times a thin hair had to touch the cornea to cause blinking. It appeared that 1-2 hours after the irradiation the efficacy of anesthesia increased by 40% but 1 day after the irradiation the effect was 25% lower than in the control group. At later stages

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S/219/63/055/002/003/004
D296/D308

Local anesthesia ...

(3-7 days) no difference between the groups could be found. The author explains the above findings by means of the direct effect of the radiation upon the corneal nerve endings. In the experiments concerning conduction anesthesia, the sciatic nerves of 88 spinal frogs (*Rana temporaria*) were stimulated by electrical current. The effectiveness of a 0.1% novocaine solution was assessed by the intensity and duration of the general motor response to stimulation. The live frogs were exposed to 5000 r of X-rays and the experiments were carried out 1-3 hours, 1 day, 3, 7 and 15 days after exposure to radiation. Here too, the local anesthesia was more effective after radiation, suggesting a direct influence of the radiation upon the sensory nerves, an influence which hitherto has been shown to exist only for fatal doses of radiation. In the experiments with infiltration anesthesia guinea pigs were exposed to X-rays, in a dose of 350 r. The effects of local anesthetics (novocaine, benzocaine, mesocaine) were assessed by the number of times the infiltrated area had to be pricked with a sharp needle to elicit the skin-muscle reflex. In this case radiation decreased the efficacy of local anesthesia. This is explained with the increased tissue per-

Card 2/3

Local anesthesia ...

S/219/63/055/002/005/004
D296/D308

meability leading to a more rapid resorption of the drug, a view corroborated by signs of general intoxication. There are 1 figure and 2 tables.

ASSOCIATION: Otdelenie eksperimental'noy terapii (rukovoditel' - Prof. A.M. Rusanov), Tsentral'nogo nauchno-issledovatel'skogo instituta meditsinskoy radiologii (Director - zasluzhennyy deyatel' nauki Prof. M.N. Pobedinskij) Ministerstva zdravookhraneniya USSR, Leningrad (Department of Experimental Therapy (Director: Prof. A.M. Ruzanov), Central Research Institute of Medical Radiology (Director: Prof. M.N. Pobedinskij, Merited Scientist) Ministry of Health of the USSR, Leningrad)

PRESENTED: by Academician A.V. Lebedinskiy

SUBMITTED: February 4, 1961

Card 3/3

GRYAZNOV, N.S.; LAZOVSKIY, I.M.; FEL'DBRIN, M.G.; KAUFMAN, A.A.;
KOMAROVSKAYA, G.M.; LASKAYA, M.P.; IVANOVA, L.V.

Peculiarities of the process of coking coal with oil additions.
Koks i khim. no.16:17-22 '61. (MIRA 15:2)

1. Vostochnyy uglekhimicheskiy institut.
(Coke industry)

GRYAZNOV, N.S.; LAZOVSKIY, I.M.; FEL'DERIN, M.G.; IVANOVA, L.V.;
KOMAROVSKAYA, G.M.

Standardization of methods of coal preparation for coking.
Koks i khim. no.4:3-9 '62. (MIRA 16:8)

1. Vostochnyy uglekhimicheskiy institut.
(Coal preparation)

LAZOVSKIY, L.I.

Catch in front of a scale-breaker on a continuous sheet mill.
(MIRA 14:12)

(Rolling mills—Safety devices)

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

BC LA205KAYA, L.N.

A-A

Biocchemistry of strontium and barium. A. O. Voinar and L. N. Labovskaja (Biochimia, 1948, 7, 244-254).—The presence of Sr and Ba in an organ depends on the amount of Ca and is smaller as the amount of Mg increases. The Sr and Ba of the blood serum of parathyroidectomized animals with hypocalcaemia exhibit a corresponding decrease while the Ca, Sr, and Ba contents of the organs of these and of normal animals remain const. Ca and Sr in arterial blood vessels increase with age (Ba exhibits no regular change) while the ratio Sr : Ca in arterial ash is const. H. G. R.

COMMON ELEMENTS

MATERIALS INDEX

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND LETTERS

3RD AND 4TH LETTERS

5TH AND 6TH LETTERS

7TH AND 8TH LETTERS

9TH AND 10TH LETTERS

11TH AND 12TH LETTERS

13TH AND 14TH LETTERS

15TH AND 16TH LETTERS

17TH AND 18TH LETTERS

19TH AND 20TH LETTERS

21ST AND 22ND LETTERS

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93RD AND 94TH LETTERS

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97TH AND 98TH LETTERS

99TH AND 100TH LETTERS

140 AND 6TH CODES

PROCESSES AND PROPERTIES INDEX

ca

11P

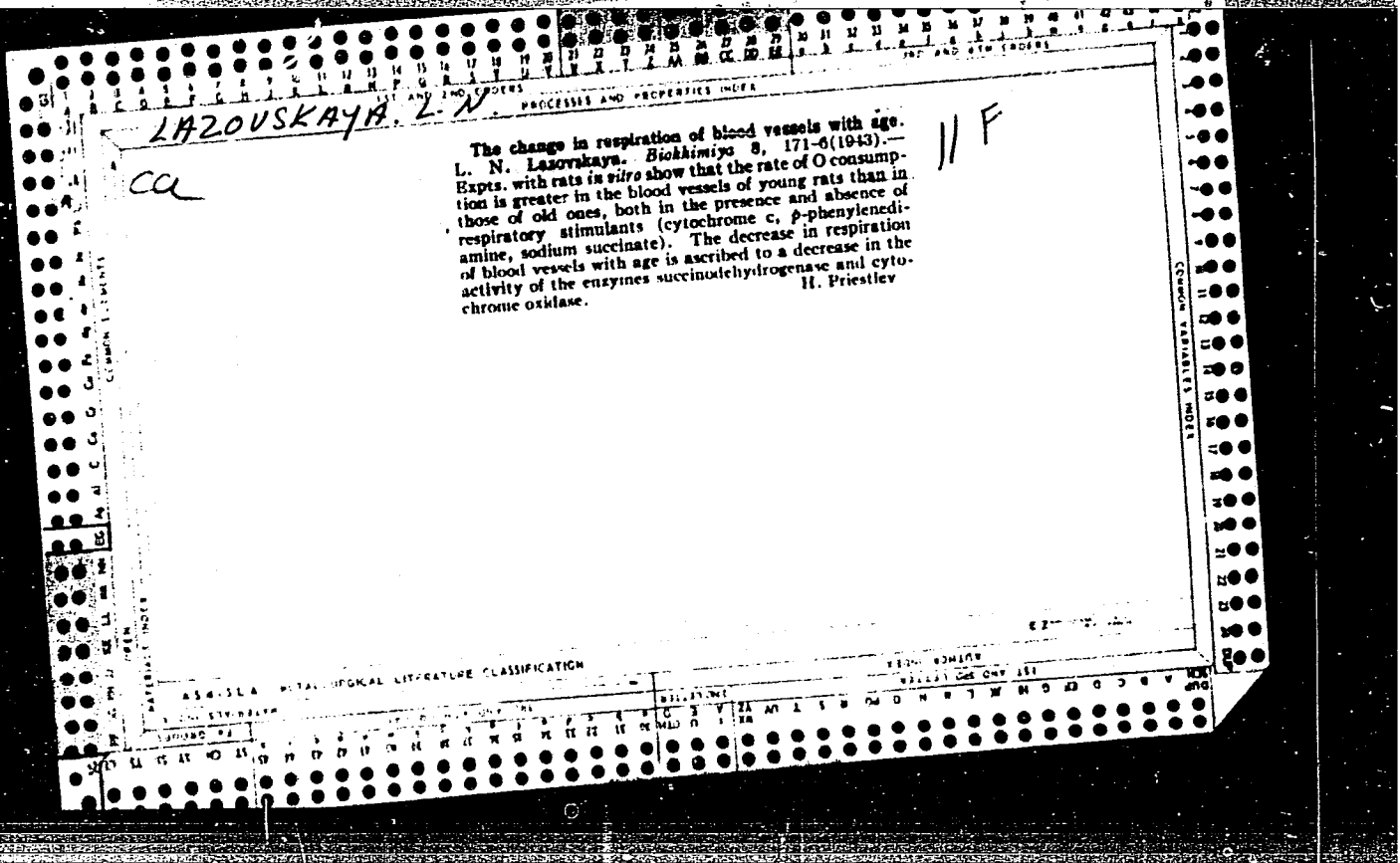
The biochemistry of Sr and Ba. A. O. Voinar and L. I. Lazovskaya. *Biochimica* 7, 344-54(1943). The contents of Sr and Ba were detd. in organs of the normal dog and cow and those of people. Along with Ca, Sr and Ba are always found in the animal organism. If the Ca content of the blood is exptly. lowered, the Sr and Ba contents decrease correspondingly. Both the Ca and Sr in the arterial blood vessels increase with the age of the organism. H. Priestley

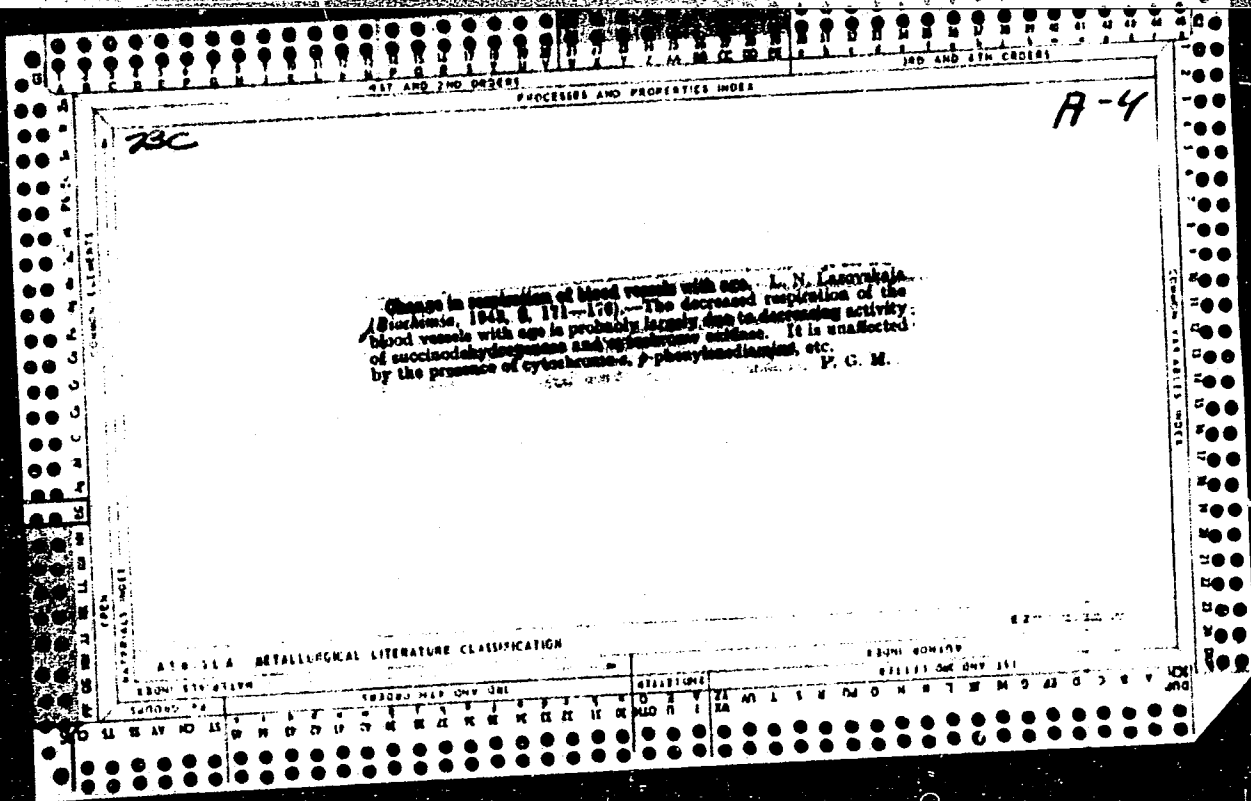
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140 AND 6TH CODES





LAZOVSKAYA, N.

"Radioactive isotopes in peat research" by M.P. Volarovich,
N.V. Churaev. Reviewed by N. Lazovskaia. Torf. prom. 38
no.7:36-37 '61. (MIRA 14:12)

(Peat)

(Radioisotopes--Industrial applications)

(Volarovich, M.P.)

(Churaev, N.V.)

PROCESSES AND PROPERTIES INDEX
1ST AND 2ND ORDERS

C

F

3846. EFFECT OF ELECTRIC CURRENT ON COEFFICIENT OF EXTERNAL FRICTION OF PEAT. Lazovskaya, N.V. (Torfyannaya Prosvyashennost, 1949, (8), 9-12). Laboratory experiments showed that friction between surfaces of peat and metal is reduced when a direct current passes between them, e.g. through colloidal particles in the peat becoming electrically charged and so being attracted towards the oppositely charged metal surface. The use of this result for the reduction of friction in peat handling and processing machinery is suggested. (L).

METALLURGICAL LITERATURE CLASSIFICATION

A 5 H . 5 L A

MATERIALS INDEX

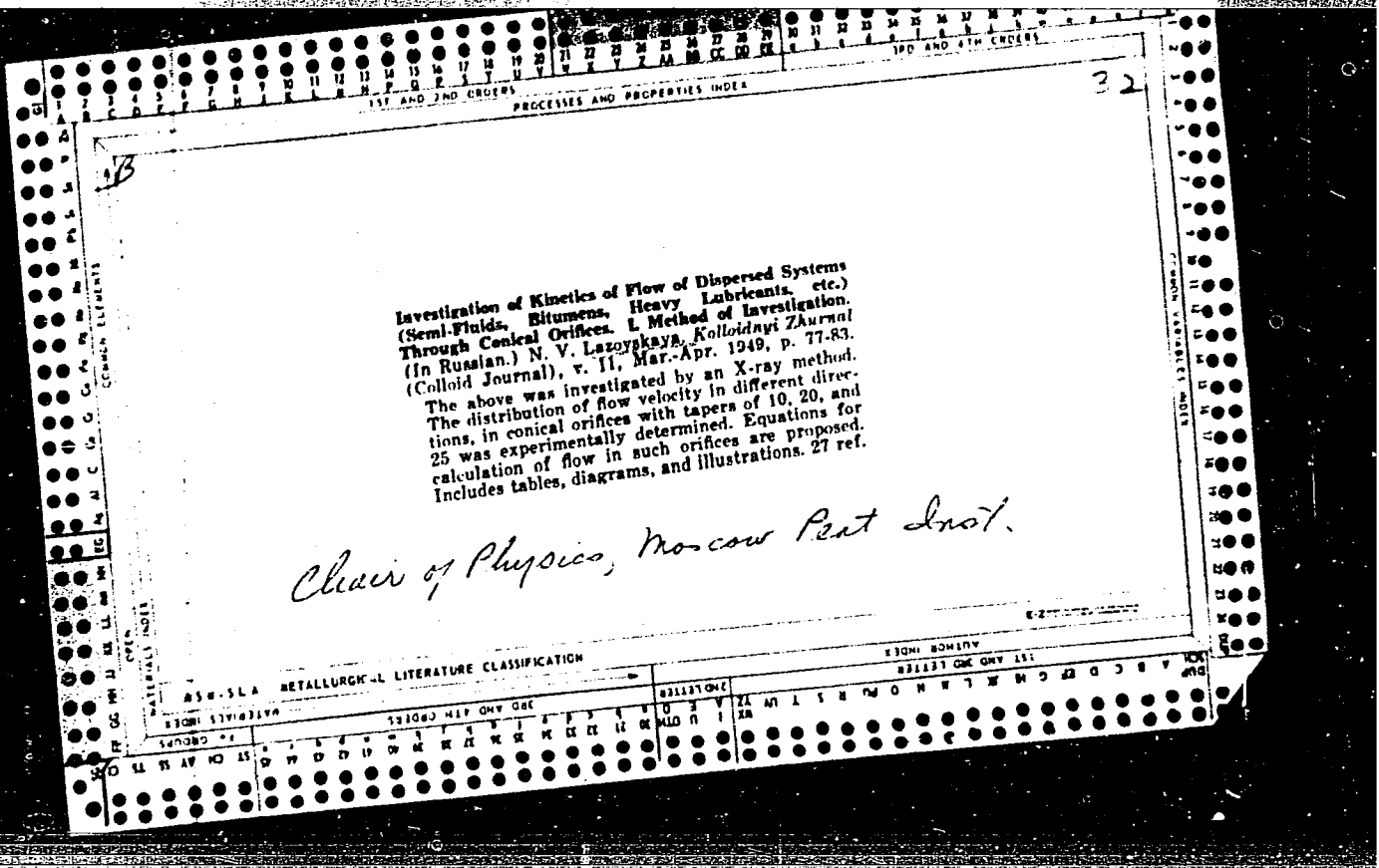
CATEGORIES GROUPS

1ST AND 2ND ORDERS

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

1ST AND 2ND ORDERS

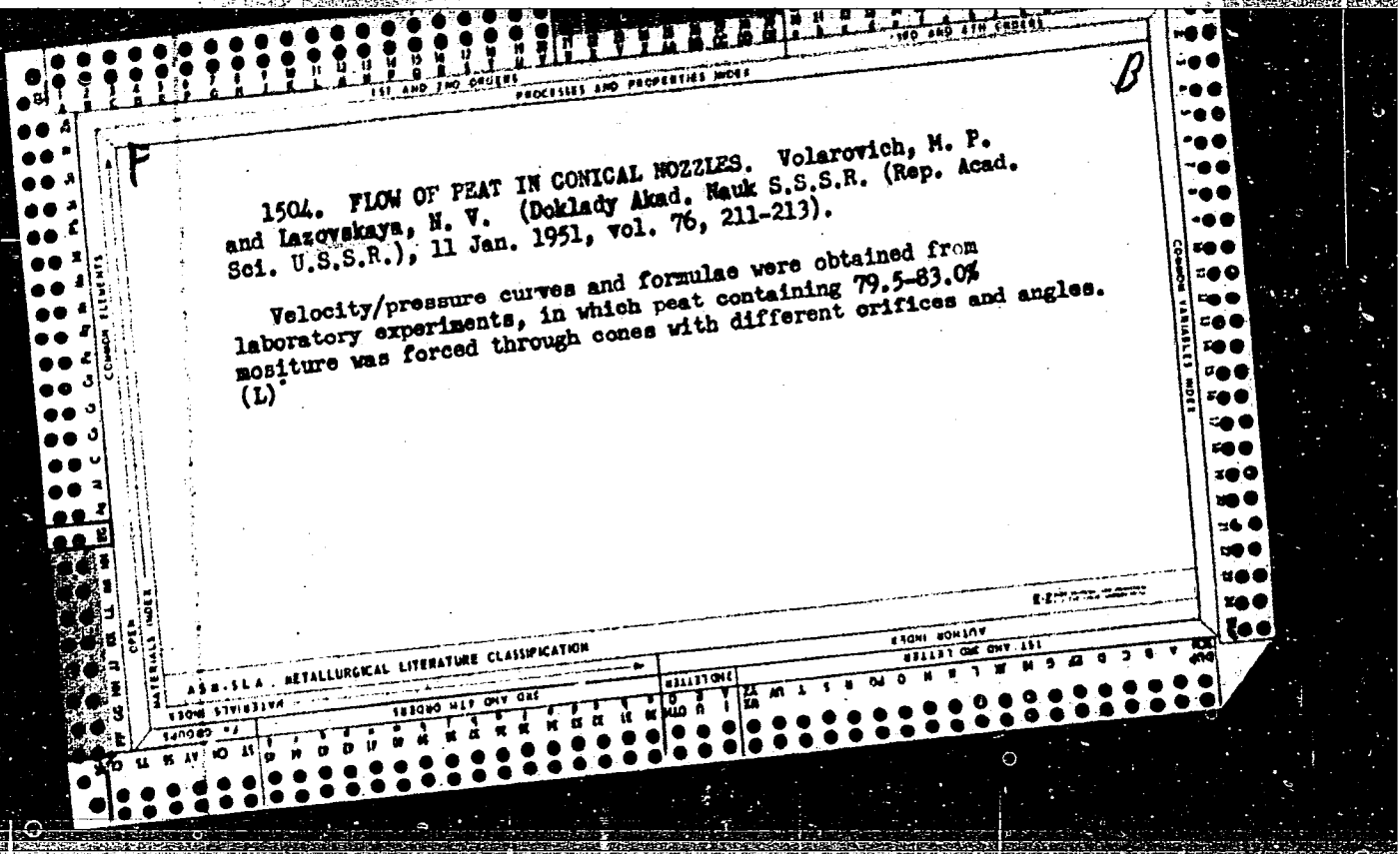
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z



LAZOVSKAYA, N. V.

"Investigation of the Flow of Peat in Conical Nozzles,"
Thesis for degree of Cand. Technical Sci. Sub. 30 June 50,
Moscow Peat Inst.

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in
Science and Engineering in Moscow in 1950. From Vechernyaya Moskva
Jan-Dec. 1950



Л. А. Золотарь, И. В. ...

report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb '60.

- 134. A. A. Il'yushin (Moscow): Problems of the theory of plasticity under combined loading.
- 135. I. E. Kabanov (Tashkent): Elastic-plastic vibrations of rods of non-circular cross section.
- 136. V. A. Kalinin (Leningrad): The forced non-linear flexural vibrations of a homogeneous prismatic rod and a very long rectangular plate.
- 137. S. Kulich (Moscow): On a method of solving the equations of anisotropic elastostatic equilibrium in the presence of a magnetic field.
- 138. A. A. Kozlov, P. A. Shubin (Leningrad): An engineering method for the analysis of open prismatic shells.
- 139. I. I. Kozlovskiy (Leningrad): The distribution of vertical compressive stresses and strains in foundations in homogeneous or stratified soils.
- 140. B. Ya. Kozlov (Moscow): Bending of cantilever plates of variable thickness.
- 141. E. S. Kravtsov (Kiev): The effect of aging and anisotropy on the creep of polymers.
- 142. L. M. Kuchanov (Leningrad): On the law of rupture in creep.
- 143. L. M. Kuchanov (Leningrad): On some variational principles and methods in the theory of plasticity.
- 144. K. A. Kuznetsov (Moscow): A procedure of determining an impact "reaction diagram" for large deformations.
- 145. B. A. Kuznetsov (Moscow): Some generalizations of the formulation of elastostatic and elastoplastic contact problems and methods for their solution.
- 146. A. Sh. Kuznetsov: The flow of a visco-plastic medium in a beam.
- 147. E. A. Kuznetsov (Leningrad): On the elastic equilibrium of thin, laminated anisotropic plates.
- 148. E. V. Kovalev (Moscow): Stability of the equilibrium of a beam of arbitrary cross-section in the case of a uniform lateral load.
- 149. A. P. Kovalev (Moscow): Stability of equilibrium of a beam of arbitrary cross-section in the case of a uniform lateral load.
- 150. M. Kozlov (Moscow): Some generalizations of the formulation of elastostatic and elastoplastic contact problems and methods for their solution.
- 151. M. Kozlov (Moscow): Some generalizations of the formulation of elastostatic and elastoplastic contact problems and methods for their solution.
- 152. M. Kozlov (Moscow): Some generalizations of the formulation of elastostatic and elastoplastic contact problems and methods for their solution.
- 153. A. S. Kovalev (Leningrad): The effect of support elasticity on the natural vibrations of rods of arbitrary cross-section.
- 154. V. M. Kovalev, I. A. Oshk (Moscow): Strength and plasticity of materials.
- 155. B. G. Korovin (Moscow): The design of flexible plates and beams on elastic foundations.
- 156. M. S. Koshvina (Moscow): Bending of rectangular shallow shells with elastic ribs.
- 157. M. S. Koshvina (Moscow): On the solution of the nonlinear algebraic equations of shell theory.
- 158. V. G. Korovin, D. M. Pritakovskiy (Leningrad): The contact problem of the consolidation of a material under pressure with variable specific weight and variable shear prestressability.
- 159. A. S. Kosmanovskiy (Moscow): The elastic equilibrium of anisotropic plate with a finite number of elliptical holes.
- 160. The effect of support elasticity on the natural vibrations of rods of arbitrary cross-section.
- 161. The effect of support elasticity on the natural vibrations of rods of arbitrary cross-section.
- 162. A. I. Krasovskiy (Leningrad): On the theory of plane plastic stress.
- 163. V. S. Krasovskiy, V. M. Krasovskiy (Moscow): Propagation of elastic, viscoplastic waves in bars.
- 164. V. D. Kravtsov (Moscow): The investigation of contact problems of the stability of a beam by the method of singular integral equations.
- 165. V. S. Kravtsov (Moscow): The investigation of the deformation of a beam of arbitrary cross-section by the Eshelby method.
- 166. The effect of support elasticity on the natural vibrations of rods of arbitrary cross-section.
- 167. The effect of support elasticity on the natural vibrations of rods of arbitrary cross-section.
- 168. The effect of support elasticity on the natural vibrations of rods of arbitrary cross-section.
- 169. The effect of support elasticity on the natural vibrations of rods of arbitrary cross-section.

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S/069/60/022/005/010/011
B004/B064

11.2210

AUTHOR:

Lazovskaya, N. V.

TITLE:

The Work of the Subsection of the All-Union Congress on
Mechanics

PERIODICAL: Kolloidnyy zhurnal, 1960, Vol. 22, No. 5, pp. 643-647

TEXT: The pervyy Vsesoyuznyy s'yezd po teoreticheskoy i prikladnoy mekhanike (First All-Union Congress on Theoretical and Applied Mechanics) was held in Moscow from January 27 to February 3, 1960. It was convened by the Natsional'nyy komitet SSSR po teoreticheskoy i prikladnoy mekhanike (National Committee of USSR of Theoretical and Applied Mechanics), the Otdeleniye tekhnicheskikh nauk Akademii nauk SSSR (Department of Technical Sciences of the Academy of Sciences, USSR), and the Moskovskiy gosudarstvennyy universitet (Moscow State University). The Congress worked in three sections: Section of General Applied Mechanics, Section of Mechanics of Gas and Fluid, Section of Solid State. The Subsection of Rheology headed by M. P. Volarovich belonged to the latter. Forty reports were delivered in this subsection, dealing with the rheological properties of easily

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The Work of the Subsection of the All-Union
Congress on Mechanics

S/069/60/022/005/010/011
B004/B064

deformable substances as, e.g., disperse systems and macromolecular compounds. M. P. Volarovich mentioned in his opening speech a paper by N. I. Malinin (Kolloidnyy Zhurnal, 1955, Vol. 17, No. 4, p. 332), the Third International Congress on Rheology 1958 in Marburg at which the Soviet researchers N. V. Mikhaylov, G. V. Vinogradov, A. A. Trapeznikov, and Yu. A. Daynega took part, and the meeting of the International Committee on Rheology. The following reports were delivered in the subsection: P. A. Rebinder, "Types of Macromolecular and Disperse Structures and the Mechanical Properties Characteristic of Them"; G. V. Vinogradov and V. P. Pavlov, "The Principal Mechanical Properties of Consistent (Plastic) Lubricants as Solids" G. V. Vinogradov, A. A. Mamakov, and V. P. Pavlov, "Investigation of Soft Plastics in a Composite State of Stress". N. V. Mikhaylov reported on the deformation of visco-plastic materials, G. M. Bartenev on rheological properties of rubber-like polymers, A. A. Trapeznikov and T. G. Shalopalkina on experiments carried out with aluminum naphthenate gel. T. V. Assonova, T. I. Zatsepin, and A. A. Trapeznikov delivered a report on "The Shearing Strength and the Ultimate Reversible Deformations of the Solutions and Gels of Some Rubbers".

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The Work of the Subsection of the All-Union
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S. S. Vyalov spoke about deformation of ice based upon work performed in the Antarctica; S. Ye. Fraynfel'd dealt with a simplified rheological equation; N. I. Malinin with creeping deformations due to rupture of the molecular chains of high-polymers; T. D. Shermegor reported on the mechanical deformation of visco-elastic bodies; A. A. Abbasov, A. F. Kasimov, and Ya. A. Shvarts on consecutive motion of immiscible visco-elastic fluids; A. A. Abbasov, V. M. Mekhtiyev, and A. A. Mirzoyan treated the problem of the motion of viscous and visco-elastic fluids in tubes, which they solved with the help of G. E. Grinberg's method; A. I. Leonov reported on some problems of the unsteady flow of an incompressible visco-elastic Maxwellian fluid. A. I. Leonov and M. D. Nusinov spoke about some problems of quasistationary flow of Maxwellian fluid. G. T. Gasanov and S. G. Gurbanov studied hydrodynamic problems of the unsteady flow of viscous and visco-elastic fluids; I. M. Astrakhan investigated the motion of visco-elastic fluid on the boundary layer. G. I. Fuks, V. P. Pavlov, and V. V. Vaynshtok delivered reports on visco-elastic flow, creeping, and thixotropy of structured systems, above all of lubricants. Yu. M. Ivanov spoke about the strength of polymers as a function of time and temperature; V. V. Andreyev, A. M. Kosevich, and L. V. Tanatarov on inelastic and residual deformations of a plane layer of a solid in all-

The Work of the Subsection of the All-Union
Congress on Mechanics

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B004/B064

tropic transformations. Problems of the equilibrium in elasto-plastic media between solid boundaries were dealt with by A. M. Gutkin, M. P. Vclarovich, and A. Kh. Kim; N. V. Tyabin studied the flow of an elastic visco-plastic medium on the boundary layer. F. S. Fadeyeva spoke about deformation of ceramics; V. V. Vedeneyev about the flow of bitumens, R. V. Torner about the application of the similarity principle for calculating the isothermal flow of rubber mixtures. M. V. Gzovskiy, I. Ya. Kuznetsova, and D. I. Osokina reported on the application of optical polarization for the study of tensions. N. V. Lazovskaya dealt with the investigation of the deformation of drains with X-rays. Yu. I. Kosterin and I. V. Kragel'skiy studied rheological processes in dry friction; S. V. Levi reported on rheological properties of gelatin; A. Ye. Desov's report dealt with the propagation of vibrations in concrete; S. K. Noskov treated the viscous behavior of elastic-plastic-viscous materials during vibration. M. P. Volarovich, G. Ya. Voronkov, Ye. P. Kovalevskiy, and G. I. Kuzhman reported on the rate of propagation of longitudinal waves in peat; B. A. Dogadkin on the chemical relaxation of stress in steric polymers. In conclusion, it is mentioned that for some special cases solutions of the Hencky (Genki) - Il'yushin equations have been found, and pointed out to some problems hitherto unsolved.

Card 4/4

LAZOVSKAYA O. V.

CGT. 48

USSR/Engineering:

Bearing - Lubrication

Engines, Aircraft - Cold Weather Operation

"Application of the Hydrodynamic Theory of Friction for Bearings Operating Under Low Temperatures," M. P. Volzovich, O. V. Lazovskaya, Inst Mach Studies Acad Sci USSR, 5¹ pp

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 10

Low bearing temperatures are encountered when starting automobile and aero engines in winter. Experiments show that hydrodynamic theory of bearing lubrication holds good for auto oils down to -30°. Includes five diagrams and one table. Submitted 8 July 48.

PA 21/42T35

Lazovskaya, O.V.

VOLAROVICH, M.P., LAZOVSKAYA, O.V.

"Studies of Friction in a Pair of Cylindrical Bearings at Low Temperatures"
Symposium no. 4, "Friction and Wear in Machines"
Academy of Sciences, 1949

LAZOVSKAYA, O. V.

PHASE I BOOK EXPLANATION SOV/5055

Vsesoyuznaya konferentsiya po treniyu i iznosu v mashinakh. 3d, 1958.

Gidrodinamicheskaya teoriya smazki. Opory stol zheriya. Smazka i smazochnyye materialy (Hydrodynamic Theory of Lubrication and Slip Bearings. Lubrication and Lubricant Materials) Moscow, Izd-vo AN SSSR, 422 P. Srzatsa slip inserted. 3,500 copies printed. (Series: Its: Trudy, v. 3)

Sponsoring Agency: Akademiya Nauk SSSR. Institut mashinovedeniya. Resp. Eds. for the Section on Hydrodynamic Theory of Lubrication and Slip Bearings: Ye. N. Chukov, Professor, Doctor of Technical Sciences, and A. M. Lazovskaya, Professor, Doctor of Technical Sciences; Resp. Ed. for the Section on Lubrication and Lubricant Materials: G. V. Vinogradov, Professor, Doctor of Chemical Sciences; Ed. of Publishing House: M. Ya. Klebanov; Tech. Ed.: G. N. Gus'kova.

PURPOSE: This collection of articles is intended for practicing engineers and research scientists.

COVERAGE: This collection, published by the Institut mashinovedeniya AN SSSR (Institute of Science of Machines, Academy of Sciences USSR) contains papers presented at the III Vsesoyuznaya konferentsiya po treniyu i iznosu v mashinakh (Third All-Union Conference on Friction and Wear in Machines) which was held April 9-15, 1958. Problems discussed were in Hydrodynamic Theory (Cont.)

Korochinskiy, M. V. On Unsteady Motions of the Journal in a Bearing. (Treniye i iznos v mashinakh" T. 13, Izd-vo AN SSSR, 1960) 184

II. LUBRICATION AND LUBRICANT MATERIALS

Lubricant Materials and Wear 165

Vinogradov, G. V. Some New Methods of Producing and Investigating Lubricant Materials 172

Al'shits, I. Ya., Ye. M. Oparina, L. M. Senlyurikhina, and L. M. Susakina. Experiment Using Disulfide of Molybdenum as a Lubricant Material 177

Bezborodko, M. D., M. T. Pavlovskaya, and V. V. Arkharova. Effect of the Composition and the Character of Gaseous Media on the Wear-Resistant Properties of Petroleum Lubricating Oils 187

Vintse, S. V. Contact Effect in Wear as a Factor in the Oxidation of the Oil in Engines 191

Vinogradov, G. V., V. V. Arkharova, N. T. Pavlovskaya, and M. D. Bezborodko. Wear-Resistant and Antifriction Properties of Salt Pensions 193

Vishnyakov, V. A., and V. G. Lebedev. Abrasive Wear of Roller Bearings in the Presence of a Lubricant Material 201

Klimov, K. I., and G. I. Kichkin. Critical Temperature of an Oil Film in Sliding Contact of Steel Surfaces, and the Dispersive Capacity of the Oil 212

Lazovskaya, O. V. Methods for Determining the Critical Temperatures of an Oil Film in the Case of Friction of Steel Against Antifriction Alloys 213

Korotova, O. Ye. Wear-Resistant Reactions of Sulfur-organic Compounds as Additives to Lubricant Oils 213

S/081/61/000/019/070/085
B117/B110

11.9000

AUTHOR: Lazovskaya, O. V.

TITLE: Method for determining the critical temperatures of the oil film during friction of steel on antifriction alloys

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 19, 1961, 426, abstract 19M207 (Tr. 3-y Vses. Konferentsii po treniyu i iznosu v mashinakh. M., AN SSSR, v.3, 1960, 212-217)

TEXT: A method has been developed for determining the critical temperatures of the oil film on antifriction alloys during friction of the latter with steel. The proposed friction scheme "ball of hardened steel -- ring-shaped sample of antifriction metal" guarantees constant specific pressure in the surface contact during the test. Tests according to this scheme were carried out on a 4-ball machine type ~~KT-2~~ (KT-2). During the following rise in temperature, the upper ball and the lower sample were not exchanged (prior to the test, the samples were kept for 1 hr in the oil to be tested). According to the method described the critical

✓B

Card 1/2

Method for determining the critical...

S/081/61/000/019/070/085
B117/B110

temperature of the vaseline oil, comprising an additive of stearic acid and lubricant AF-70 (AF-70) of 0.1%, was determined with sufficient reproducibility of results on a number of copper alloys subjected to friction with steel. The scheme of the working unit of machine KT-2 is given. [Abstracter's note: Complete translation]

✓B

Card 2/2

A procedure for determining the ...

S/883/62/000/000/017/020
E194/E155

friction of copper alloy against copper alloy, up to 40 kg/cm².
The critical temperature falls somewhat at higher specific
pressures, presumably because of plastic strain in the surface
layer of the softer of the two materials in contact, causing
local breakdown of the lubricant film.
There are 6 figures.

Card 3/3

KHRUSHCHOV, M.M.; SEMENOV, A.P.; MATVEYEVSHIY, R.M.; LAZOVSKAYA, O.V.;
BELOUSOV, N.N.; KOLESHNIKOVA, V.S.

Investigating lubricated and nonlubricated friction of anti-
friction bronzes and brasses. Tren. i izn. v mash. no.17:36-
70 162. (MIRA 17:10)

L 2569-66

ACCESSION NR: AT5022685

AUTHORS: Lazovskaya, J. V.; Matveyevskiy, R. M.

TITLE: Method of studying the antifriction properties of solid lubricants at high temperatures in a vacuum and in an inert gas

SOURCE: AN SSSR. Nauchnyy sovet po treniyu i smazkam. Teoriya treniya i iznosa (Theory of friction and wear). Moscow, Izd-vo Nauka, 1965, 312-316

TOPIC TAGS: friction coefficient, solid lubricant, lubricant property, molybdenum disulfide, graphite, KT 2 friction apparatus, KT 4 friction apparatus, K 41 bonding material, K 43 bonding material, K 55 bonding material

ABSTRACT: To check the temperature limitations of solid lubricants, a friction machine KT-4 based on machine KT-2 (R. M. Matveyevskiy. Chetyrekhscharikovaya mashina KT-2 dlya opredeleniya kriticheskikh temperatur plenki masla na metalle. VINTINF, Gosudarstvennogo nauchno-issledovatel'skogo instituta mashinovedeniya (Wear Laboratory of the State Scientific Research Institute of Machine Operation). The working elements of the apparatus are four balls 8 mm in diameter shown in Fig. 1 on the Enclosure (the top ball is rotated at a speed of 1/3 rpm), a cup to hold three of the balls which can be loaded through lever 8, a heater, an evacuation and Card 1/3

L. 2569-66

ACCESSION NR: AT5022685

6

inert gas pressurization system, and auxiliary environmental and measuring equipment. A number of MoS₂ and graphite-based lubricants with different bonding materials were tested in argon and in a vacuum over a temperature range of 20-700C at a constant load of 1.43 kg and a constant speed of 1/3 rpm. It was found that in argon organic bonding materials (K-41, K-43, K-55) permitted operation to 600C before the friction coefficient rose drastically. Sodium silicate bonding was only effective to 500C. In a vacuum ($\approx 10^{-4}$ mm Hg), MoS₂ with a metallic bonding (galvanic silver) gave best results (still good at 700C, $f \approx 0.09$), while other bonding materials deteriorated after $\approx 500C$, i.e., f started increasing rapidly after decreasing steadily between 20 and 500C. Orig. art. has: 4 figures.

ASSOCIATION: Nauchnyy soviet po treniyu i smazkam, AN SSSR (Scientific Committee on Friction and Lubrication, AN SSSR)

SUBMITTED: 18May65

44

ENCL: 01

SUB CODE: FP, ME

NO REF SOV: 003

OTHER: 005

Card 2/3

L 2569-66

ACCESSION NR: AT5022685

ENCLOSURE: 01

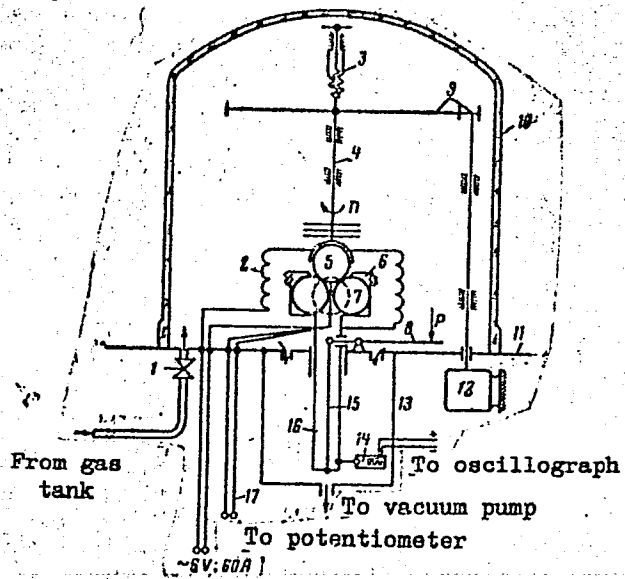


Fig. 1. Schematic of experimental apparatus

Card ^{ml} 3/3

L 03770-67 EWI(m)/T DJ

ACC NR: AP6019219

SOURCE CODE: UR/0380/66/000/002/0086/0090

AUTHOR: Matveyevskiy, R. M. (Moscow); Lazovskaya, O. V. (Moscow)

ORG: None

TITLE: Investigation of the effect of various technological factors and temperature on the antifriction properties of solid lubrication coatings based on molybdenum disulfide //

47
46
B

SOURCE: Mashinovedeniye, no. 2, 1966, 86-90

TOPIC TAGS: antifriction material, solid lubricant, molybdenum disulfide, urea resin, metal friction, formaldehyde, *protective coating*

ABSTRACT: A report is given on tests of a solid lubricant based on molybdenum disulfide with a binder of ureaformaldehyde resin (VNII NP-212). // This study was undertaken at the Laboratory of Wear Resistance of the State Scientific Research Institute of Machine Science. // The coatings were tested on ShKh-6 steel subjected to various ratios of surface pretreatment. Lubricant coatings of various thicknesses with various ratios of binder to lubricant were studied. The experiments were done at room temperature with 8 mm ball specimens rotating at a rate of 1 rpm with an axial load of 11 kg which corresponds to an initial specific load of 200 kg/mm². Changes in the force of friction were recorded during testing. Four spherical specimens were rotated against each

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UDC: 621.892/536.21

L 03770-67

ACC NR: AP6019219

other in tetrahedral formation under three types of conditions: 1. solid lubricant only on the upper sphere with uncoated lower spheres; 2. a lubricating layer on the lower spheres with an uncoated upper sphere; 3. all four spheres coated. The proposed method may be used for determining the effect of various technological factors on the antifriction properties of solid lubricant coatings under conditions of high contact pressures at various temperatures. It was found that the most effective surface treatment for steel operating under friction conditions in air is parkerizing or sandblasting followed by parkerizing before coating with lubricant. Sandblasting is the preferable surface treatment for steel to be used under vacuum friction conditions. Parkerizing after sandblasting in these conditions impairs the strength of the lubricant coating at temperatures above 400°C. Variations in coating thickness between 5 and 15 microns has practically no effect on the coefficient of friction. Minimum binder concentration gives a minimum coefficient of friction for coatings of this type at room temperature. A coating based on molybdenum disulfide with silicone binder gives a low coefficient of friction in vacuum (10^{-4} mm Hg) up to 600°C. Orig. art. has: 6 figures.

SUB CODE: 1120 / SUBM DATE: 29Jun65 / ORIG REF: 003

Card 2/2 *pdh*

ACC NR: AP7003636

(A)

SOURCE CODE: UR/0380/67/000/001/0108/0115

AUTHOR: Matveyevskiy, R. M. (Moscow); Lazovskaya, O. V. (Moscow)

ORG: none

TITLE: Temperature stability of antispalling coatings and protective layers in friction in various gas media

SOURCE: Mashinovedeniye, no. 1, 1967, 108-115

TOPIC TAGS: metal friction, antifriction material, ~~antiseize additive~~, antifriction coating, ~~coating thermal stability, coating~~ friction coefficient, contact stress, protective coating, silver, cadmium, copper, thermal stability

ABSTRACT: The Wear Resistance Laboratory at the Institute of the Science of Machines has investigated the antifriction properties and behavior of various protective and antispalling coatings in friction under high contact loads at a sliding velocity of 0.01 cm/sec and temperatures ranging from 20 to 700C in a vacuum of 10^{-4} — 10^{-5} mm Hg or in an inert gas under a pressure of 1.1 atm. The friction was produced by rotating a ball of ShKh-6 ball-bearing steel 8 mm in diameter on top of three fixed identical balls. The rotating ball had a coating from various antifriction and antispalling materials, while the fixed balls had none; the contact load between the rotating ball and each fixed ball was 1.43 kg. Silver coating was found to have the lowest friction coefficient

UDC: 620.162.4

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ACC NR: AP7003636

in the widest temperature range: from a value of 0.25 at 20C, it gradually decreased to 0.08 at 500—550C and then sharply increased again to 0.25 at 700C. Cadmium coating had a constant friction coefficient of 0.22 in the 20—200C range, but it increased sharply to 0.32 at 250C. The temperature-induced changes in the friction coefficient of the copper coating were analogous to those of the silver: a gradual increase from 0.4 at 20C to 0.12 at 550C followed by an increase to 0.14 at 700C. The nickel coating had a friction coefficient of 0.4—0.6 and exhibited intermittent sliding in the entire investigated temperature range. The friction coefficients of molybdenum disulfide film over silver, copper and nickel coatings decreased to 0.07—0.1 in the 20—500C range, and that of cadmium coating to 0.1 at temperatures up to 200C. An MoS₂-base VNII NP-229 coating (sodium silicate film-forming agent) and a VNII NP-213 coating (silicoorganic film-forming agent) had a friction coefficient of about 0.012 at 20C, which slowly decreased to about 0.005 at 500C; the coatings failed at temperatures above 500C and 600C, respectively. Soft protective coatings on steel formed by parkerizing or sulfiding ensure friction coefficients of the order of 0.15—0.25 in vacuum at temperatures up to 500C; at higher temperatures, the coatings decompose. Electroless nickel plating of steel ensures in vacuum a friction coefficient of 0.3—0.4 at temperatures up to 300C; at higher temperatures the friction coefficients increase sharply. Borided layers on hardened steel had particularly stable friction coefficients (about 0.2) in vacuum in the entire 20—700C range.

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ACC NR: AP7003636

A borided layer on annealed steel had higher but significantly more temperature-dependent friction coefficients. , Orig. art. has: 8 figures and 1 table. [MS]

SUB CODE: 11, 13/ Su M DATE: 27Nov66/ ORIG REF: 010/ OTH REF: 008/
ATD PRESS: 5115

Card 3/3

L 9455-66 EWT(m)/EWP(j) RM

ACC NR: AP5025011

SOURCE CODE: UR/0286/65/000/016/0075/0075

AUTHORS: Takhtarov, G. N.; Trofimovich, D. P.; Gerlakh, L. R.; Podshibyakina, G. S.; Zaborina, N. B.; Lazovskaya, R. A.; Yefimov, V. M.; Kalachev, V. A.; Mayorov, D. A.

ORG: none

TITLE: Foam generator for an installation for continuous mixing and foaming of latex mixtures. Class 39, No. 173911 announced by the Scientific Research Institute for Rubber and Latex Products (Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh izdeliy)

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 75

TOPIC TAGS: foam generator, latex foamer, latex mixer, SYNTHETIC RUBBER, RUBBER WORKING MACHINERY

ABSTRACT: This Author Certificate presents a foam generator (see Fig. 1)

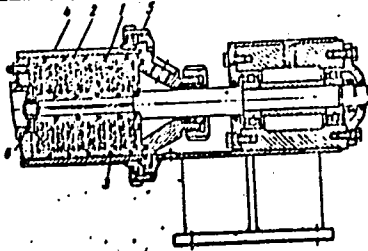


Fig. 1. 1 - Rotor; 2 - stator; 3 - seals; 4 - body; 5 and 6 - nuts.

UDC: 678.021.1:621.187.115

L 9455-66

ACC NR: AP5025011

for installations for continuous mixing and foaming of latex mixtures. This device includes an electric drive on the shaft of which is mounted a rotor in the form of disks with concentric circular teeth on both sides which fit into the clearances between the circular teeth mounted on stator disks. To increase the foaming capability and capacity while decreasing the physical size, the rotor and stator consist of many-sectioned dismountable disk packets mounted through rotary seals inside a cylindrical body and tightened by nuts. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 05Mar64

Card 2/2 (pt)

L 10/09-65

EWT(1)/ENP(m)/EPA(s)-2/EWT(m)/EPP(n)-2/ENG(v)/FCS(k)/ENP(b)/
ENA(l) Pd-4/Pe-5/Pt-10/Pi-4/Pu-4 BSD/AFETR/AEDC(a)/ASD(f)-2/ESD(gs)/SSD/
ASD(p)-3/AFWL/ASD(a)-5/AEDC(b) JD/WJ/JG

ACCESSION NR: AP4046352

S/0057/64/034/010/1879/1887

AUTHOR: Tumakayev, G. K.; Lazovskaya, V. R.

TITLE: Investigation of the state of mercury vapor in a shock tube
by observation of Rozhdestvenskiy hooks

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 34, no. 10, 1964,
1879-1887

TOPIC TAGS: shock wave front, shock wave thermodynamics, shock tube,
gas dynamics, mercury, Rozhdestvenskiy hook method

ABSTRACT: Determination of the distribution of the vapor particles
(atoms and ions) and electrons across the shock wave can yield valuable
information on the dynamics of the physical processes that take
place in shock tubes. The present work was devoted to study of the
distribution of Hg atoms and ions on the $6s^1S_0$ and $6p^3P_{0,1,2}$ levels
in front of and behind a shock wave and is a continuation of earlier
work (Yu. A. Dunaev, G. K. Tumakayev, and A. M. Shukhtin, ZhTF,
34, 1119, 1961). The experimental setup, described in the cited paper,
was essentially modified; a new low-pressure chamber consisting of a

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ACCESSION NR: AP4046352

stainless-steel cylinder 3.5 meters long and 73 mm in diameter was installed. The length of the high-pressure section was 2 m. A DFS-8 spectrograph and twin cameras were used to obtain the interference patterns; these were photographed by the light of one flash from an improved flash lamp. The level populations were determined by observation of the Rozhdestvenskiy "hooks" (inflections or "hooks" in the interference bands). Measurements were carried out in the Mach-number range from 6 to 10.5. Some of the results are presented in the form of graphs; plots of N/N ratios as a function of distance from the shock-wave front and as a function of Mach number. The variation in these parameters is indicative of the complex nature of the various processes that occur in Hg vapor incident to passage of a shock wave. It was found that in Hg vapor there is abundant population of the $6p^3P_{0,1,2}$ levels in the region ahead of the wave front. At the wave front the concentration of normal and excited atoms increases by an amount corresponding to compression of an ideal monatomic gas. Two regions of the nonequilibrium zone in the flow behind the shock wave may be distinguished; in one, the departure from ideal gas behavior is minor; in the other, thermodynamic equilibrium is established almost instantaneously; ionization and excitation of electron

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ACCESSION NR: AP4046352

3

levels occur simultaneously. Strong cooling of the gas in the flow beyond the nonequilibrium zone is observed. Here a Boltzmann distribution of the particles over energy levels is observed. "The authors are grateful to Prof. Yu. A. Dunaev for his attention and his interest in the work and to Ye. M. Zubkov for assistance in setting up the apparatus and in carrying out the experiments." Orig. art. has: 3 figures and 1 table.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad (Physicotechnical Institute, AN SSSR)

SUBMITTED: 25Nov63

ATD PRESS: 3119

ENCL: 00

SUB CODE: ME

NO REF SOV: 008

OTHER: 006

Card 3/3

LAZOVSKIY, F., arkhitektor

Prefabricated one-story houses to be built in Transcaucasia.
Zhil.stroi, no.9:15-17 '59. (MIRA 13:1)
(Transcaucasia--Architecture, Domestic)

LAZOVSKIY, I.

Changes in the leucocyte and thrombocyte composition of the blood, the number of mast cells and eosinophilic leucocytes in connective tissues, and the copper content of the blood serum under the effect of histamine. Izv. AN Latv. SSR, 10:121-127 '62. (MIRA 18:1)

(BLOOD—ANALYSIS AND CHEMISTRY)
(HISTAMINE) (CONNECTIVE TISSUES)

LAZOVSKIY, I. N.

"Development of New Methods of Evaluating the Qualities of Coke." Min Higher Education USSR. Ural'sk Polytechnic Inst imeni S. M. Kirov, Sverdlovsk, 1953 (Dissertation for the Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis', No. 32, 6 Aug 55

LAZOVSKIY, I-M.

✓ 3929. EFFECT OF COKING REGIME ON THE QUALITY OF COKE. Erkin, L.I. and
Lazovskii, I.M. (Stal (Steel, Moscow), 1953, (6), 487-493; abstr. in Ref.
Zh. Khim. (Ref. J. Chem., Moscow), 1955, (20), 47045). A practical
investigation of the relationships between coking conditions, coke quality
and the operation of blast furnaces, is recorded. ①

LAZOVSKIY, I.M., kandidat tekhnicheskikh nauk; ZABRODSKIY, M.P., inzhener;
KAPEL'ZON, I.G., inzhener.

Efficient layout of the preparation unit in a modern coke plant.
Koks i khim. no.1:8-11 '56. (MLBA 9:5)

1. Vostochnyy uglekhimicheskiy institut (for Lazovskiy);
2. Nizh-niy Tegil'skiy koksokhimicheskiy zavod (for Zabrodskiy);
3. Magnitogorskiy metkombinat (for Kapel'zon).
(Coal preparation)

LAZOVSKIY, I.M.; DONDE, M.V.; P'YANKOV, Ye.A.

Averaging coals and blended charges in the piles and in the preparation section of the copruct coke plant. Koks i khim.no.2:12-17 '56.

(MLRA 9:7)

1.Vestochnyy uglekhimicheskiy institut (for Lazovskiy).2.Chelyabinskiy metallurgicheskiy zavod.

(Coal handling)

LAZOVSKIY, I.M.; VARSHAVSKIY, T.P.; NEPOMNYASHCHIY, I.L.; GERASIMOVA, L.S.

Comments on the article of R.Z.Lerner "Changing the coking unit layout for a considerable increase in the number of ovens per battery." Koks i khim.no.7:28-31 '56. (MLRA 9:12)

1. Vostochnyy uglekhimicheskiy institut (for Lazovskiy and Varshavskiy). 2. Konstruktorskoye byuro Glavmashmeta Ministerstva chernoy metallurgii (for Nepomnyashchiy). 3. Glavkoks Ministerstva chernoy metallurgii SSSR (for Gerasimova).
(Coke ovens) (Lerner, R.Z.)

~~LAZOVSKIY, I.M.~~
LAZOVSKIY, I.M.

Fuel

✓ New principles in coal-crushing techniques in preparation for coking. N. S. Gryaznov, I. M. Lazovskii, and M. G. Pol'dirin. *Ugol + Khim.* 1956, No. 8, 3-10. The question of the rational limits of crushing and the methods of grinding coal in prepar. for coklog is discussed under the following heads: (1) the modification of the structural strength of the coke with the grinding of the coal charge; (2) cracking or fissuring of the coke as a function of coal size; (3) variation in screen size of the coke with fineness of grinding; (4) basic principles of coal crushing. Summarized conclusions: (1) the finer the grinding of coal of any petrographic structure or degree of rank the lower the structural strength of the coke due (a) to the consequent deterioration in agglutinating power as indicated by rise in viscosity and decrease in thickness of the plastic layer and (b) to the lowering of its apparent sp. gr. (2) Formation of cracks is diminished because of weakening of inner tensions due to (a) rise of thermal cond. of the charge and (b) to the diminution of the caking capacity of the coal. (3) The basic principle for the rational prepn. of coal by crushing to insure improvement of the phys.-mech. properties of the coke and the utilization of weakly caking coals is that of lowering the upper limits of grain size by min. formation of fines. (4) Especially important is the preliminary sepn. of fines before charging the oven.

3

H. L. Olin

AUTHOR: Iazovskiy, I.M., Fel'dbrin, M.G. and Gryaznov, N.S. (Vukhin).
TITLE: Coking of blends prepared by differential grinding.
(Koksovanie ugol'nykh shikht, podgotovlennykh metodom
izbiratel'nogo drobleniya.)
PERIODICAL: "Koks i Khimiya" (Coke and Chemistry),
1957, No. 4, pp. 8 - 12, (U.S.S.R.)

ABSTRACT: Seven different schemes of grinding coal for coking were investigated. The first four schemes (Fig. 1) were simple schemes related to normal grinding ($93 \pm 1\%$ of below 3 mm): scheme 1 - standard; 2 consists of separating the size 3 mm; 3 - separation of the size 3 mm and its regrinding and return to the blend; and 4 - separation from coal - 3 mm size and standard grinding of larger sizes and their subsequent remixing. Three remaining schemes (Fig. 2) differ in that intermediate sizes (4-2 mm or 6-3 mm) are separated and then finely ground. Moreover, scheme 7 differed from others in that only diluting coals were differentially ground while the remaining part of the blend is ground in the usual manner. Coking of the experimental blends of three different compositions (Table 1) was carried out in a pilot plant (VUKHIN). Results of the coking experiments are given in Table 2. The best results were obtained using 5 and 6 schemes, the strength of the coke increased and the proportion of 80-60 mm size in the metallurgical coke increased by 3-7%. Blends made from petrographically

Coking of blends prepared by differential grinding. (Cont.)⁵²⁰

non-uniform coals should be treated as a whole, preferential grinding of the individual components was found to be less effective. It is concluded that preferential grinding will permit an increase in the proportion of gas coals in blends. Confirmation of the above results on full scale ovens is recommended. There are 2 tables and two graphs.

68-58-3-1/22
AUTHORS: Fel'dbrin, M.G., Gryaznov, N.S. and Lazovskiy, I.M.
TITLE: Utilisation of Gas and Weakly-caking Coals in Blends
of the Eastern Works (Ispol'zovaniye gazovykh i slabospekayushchikhsya ugley v shikhtakh vostochnykh zavodov)
PERIODICAL: Koks i Khimiya, 1958, Nr 3, pp 3 - 5 (USSR).

ABSTRACT: The possibility of increasing the proportion of gas and weakly-caking coals in blends used on the Eastern Coke Oven Works and the choice of correct blends which are able to accommodate 40-60% of the above coals were investigated. Blends containing gas coals were prepared by a preferential grinding on a pilot plant, VUKhIN. The composition of experimental blends is given in Tables 1 and 3, from which it can be seen that gas coals were replacing fat and well-caking coals. The method of preferential grinding is described in some detail. Coking was done on a semi-industrial plant; the results obtained are given in Tables 2 and 4. Conclusions: preferential grinding of blends containing 40-60% of gas coals considerably improves the strength of coke (by 12-28 kg) providing that the blends possess sufficient caking ability ($\gamma > 15$ mm). However, despite a considerable increase in coke strength by preferential grinding, the latter Card1/2 cannot secure the production of coke similar in strength to

Utilisation of Gas and Weakly-caking Coals in Blends of the Eastern
Works 68-58-3-1/22

that of current production. Further increase in the coke strength can be obtained by applying preferential grinding and stamp charging. The results obtained should be confirmed by trials under industrial conditions. There are 4 tables.

ASSOCIATION: VUKhIN

Card 2/2

68-58-6-2/21

AUTHORS: Zolotukhin, A. I., Candidate of Technical Science,
Lazovskiy, I. M. and Filyashin, K. Ya.

TITLE: A Method of Automatic Determination and Control of the
Moisture Content of Coal Charge (Metod avtomaticheskogo
opredeleniya i regulirovaniya vlazhnosti ugol'noy shikhty)

PERIODICAL: Koks i Khimiya, 1958, Nr 6, pp 6-10 (USSR)

ABSTRACT: An instrument is described for continuous determination of moisture content in the coal blend based on a condenser pick-up, the capacity of which depends on the dielectric permeability of the blend, the latter depending mainly on the moisture content. The instrument, in conjunction with water sprays, the operation of which is related to the moisture meter, can be used for maintaining a constant moisture content of the blend. The meter was developed by VUKhIN and its operation was tested on the Magnitogorsk and N. Tagil' Metallurgical Combines with satisfactory results. It is pointed out that the size distribution of a coal blend and its moisture content are the main factors governing its bulk density. However, the influence of size distribution is comparatively small, so that by maintaining Card 1/2 the moisture content on a constant level, the bulk density

Ca

SOV/24-58-6-31/35

AUTHORS: Gryaznov N.S., Lazovskiy I.M. and Fel'dbrin M.G.
(Sverdlovsk)

TITLE: Contribution to the Theory of Coke Formation in Connection with the Selective Grinding of Coals (K teorii formirovaniya koksa v svyaze s izbiratel'nyim izmel'cheniyem ugley)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye tekhnicheskikh Nauk, 1958, Nr 6, pp 144-148 (USSR)

ABSTRACT: Laboratory and semi-production coking test results with selective grinding of coal have shown that at Eastern coke plants more gas and weakly caking coals can be used and coke quality with normal coals improved. The authors deal first with the structural (crack-free) strength of coke, tabulating (Table 1) results which show that it is reduced by selective grinding. Other results (Table 2) indicate that the viscosity of the coal mix on softening rises, the effect being obtained (Table 3) when petrographically homogeneous coals are ground. The authors discuss the increase in internal friction of the plastic mass which occurs with all coals as the coal-grain surfaces are opened up. The decrease in charge bulk

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density produced by selective grinding leads to higher porosity and this, together with the poorer caking, accounts for the deleterious effect of such grinding on structural strength. The authors consider next the lump strength of coke, showing (Table 1) that this increases with selective grinding. They attribute this to the greater petrographic and size uniformity and consequent reduction of internal stresses. Finally the authors summarize the effects of selective grinding for various types of charge: coke stability is improved when a low-stability coke is otherwise obtained from strongly caking coals; with charges containing a high proportion of gas coals a strong coke is not obtained; a relatively small improvement in coke strength is obtained with charges which normally give a medium-shatter, structurally strong

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Contribution to the Theory of Coke Formation in Connection with
the Selective Grinding of Coals

coke; strong coke is not obtained with low-caking
charges normally giving a highly abrading coke. For
preventing reduction of structural strength due to
selective grinding the authors recommend tamping of the
charge and quote some test results.

There are 5 tables and 6 references (5 Soviet, 1 French)

SUBMITTED: July 16, 1957

Card 3/3

AUTHORS: Lazovskiy, I.M., Bogoyavlenskiy, V.V., and Fel'dbrin, M.G. SOV/68-58-9-2/21

TITLE: Averaging Coals and the Choice of the Type of Coal Stockyard for Modern Coking Works (Usredneniye ugley i vybor tipa ugol'nogo sklada dlya sovremennogo koksokhimicheskogo zavoda)

PERIODICAL: Koks i Khimiya, 1958, Nr 9, pp 6-9 (USSR)

ABSTRACT: During the All-Union Conference of the Workers of the Coking industry the following permissible deviations (from mean) for coke quality were established: drum tests ± 4 kg, sulphur ± 0.05 , ash $\pm 0.3\%$. These limits of variation impose the following limits for variation in the proximate analysis of coal blends: ash $\pm 0.3\%$, sulphur $\pm 0.05\%$, volatile matter $\pm 0.7\%$. To obtain the above degree of stability in the properties of coal blends, averaging of coals on stockyards and blending plants is necessary. Using methods of statistical analysis the authors discuss the necessary blending facilities for various examples of coking works supplied with a different number of coal types with a given variability in properties of coal from the individual deliveries. It is concluded that for

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works supplied from nearby coal mines with a uniform in quality coal (ash \pm 0.6, volatiles \pm 2.0) the construction of bunker installations serving simultaneously for averaging and blending coals is recommended. For works situated far from the supplying base and obtaining coals from a large number of mines the construction of a stock yard for averaging coals as distinct from the blending plant is considered necessary. There is 1 table, and 4 references (3 Soviet and 1 English)

ASSOCIATION: VUKhIN

Card 2/2

LA 2003K14, I.M.

5 (1) **PIECE I BOOK EXPERIMENTATION** 807/2127
 Eksperimentalnye protirovatnye shornit statyi (By-product coking industry Collection of Articles) Moscow, Metallurgizdat, 1959. 240 p. 2,500 copies printed.
 Ed. by S. S. Filizovoy Ed. of Publishing House: A. A. Koryakini) Tech. Ed.: I. G. Kabanov

PURPOSE: This book is intended for engineers and technicians in the by-product coking industry and in scientific research institutes. The book may also be used by students in secondary and higher technical schools.
CONTENTS: The articles in this collection on the by-product coking industry appeared originally either in the periodicals *Khimiya (Coal and Chemistry)* or in other publications since 1958-1960. The book discusses the development of re-material reserves for the coking industry, technology of the manufacture of coke, quality of coke and further processing of the coke, or chemical coking products obtained. Some articles are devoted to a comparison of the procedures for preparing and beneficiating coals, new methods for coking, and to the mechanization and automation of industrial processes. References accompany individual articles.

СЫСЛОВИЕ M. S., I. M. Kabanov, and M. G. Pal'shtin. [RUSSIAN] The Basic Principles for Preparation of Coals for Coking by Crushing 76
Сысоль, И. М. [Candidate of Technical Sciences, USSR]. Beneficiation of Coking Coals in Heavy Media 76
Ковалев, В. В. [Candidate of Technical Sciences, USSR]. Beneficiation of Centrifugal Beneficiation of Coking Coals 92
Мидель, Я. Я. [Candidate of Technical Sciences, USSR]. Continuity of the Quality Indices of Blast-Furnace Coals 119
Сысоль, И. М., and M. K. Kulakov [Coproducts]. Progress in Coke Oven Construction 137
Филизов, С. С. [Candidate of Technical Sciences, USSR]. Improvement in the Operation and Lengthening of the Life of Coke Ovens 149
Филизов, С. С., А. И. Ковалев, and S. A. Sharva. [Candidates of Technical Sciences, USSR]. Improvement of the Heating and Technological Regimes of Coke Ovens 156
Филизов, С. С., I. I. Lohmova, and K. A. Semakova. [RUSSIAN]. Coking of the Eastern Coals with the Use of Stamping 167
Ковалев, В. В., K. A. Semakova. Partial Mechanization and Automation in Coking Plants 183
Сысоль, И. М., and S. A. Gasonov [Coproducts] Coking of the Eastern Coals and Its Use in the Blast Furnace 197
Филизов, С. С. Desintegrately metallurgicheskiy koksolat - Magnitogorsk Metallurgical Coals. Methods of Increasing the 60-80 mm Fraction of Metallurgical Coals 213
Митин, М. С., and I. M. Kabanov [RUSSIAN]. Prospects of the Development of Processing Chemicals Obtained in the By-product Coking Industry in the USSR. During 1959-1965 227
Сысоль, И. М. [RUSSIAN]. Progress in Developing a Larger Number of Primary Products in the Processing of Coal Tar 234

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 20/44
 10-50-59

AUTHORS: Lazovskiy, I.M., Gryaznov, N.S., Fel'dbrin, M.G.
(VUKhIN), Pakhalok, I.F., Poputnikov, F.A., Yurenkov, N.I.
and Lyamin, I.N. (VNIIUglebogashcheniye)

SOV/68-59-6-2/25

TITLE: Preparation of Coal Blend by Air Ellutriation with
Crushing of Large and Heavy Particles (Podgotovka
ugol'nykh shikht vozdushnoy separatsiyey s drobleniyem
krupnykh i tyazhelykh chastits)

PERIODICAL: Koks i Khimiya, 1959, Nr 6, pp 5-8 (USSR)

ABSTRACT: The use of air ellutriation in the preparation of coal
blends by preferential crushing is proposed. The method
consists in that a coal or a coal blend of a size 25-0 mm
is air ellutriated in a pipe, so that 3.0 mm size
fraction is removed by the air stream and the 25-3 mm
fraction is crushed and again air ellutriated. A pilot
plant installation erected for this purpose (fig) and
some experimental results obtained are described. Coal
blends used on one of the Eastern coking works were used
for experiments. Size distributions of coal blends and
quality of coke obtained by the usual crushing and
preferential crushing with and without air ellutriation
are shown in Tables 1 and 2. It was found that the use
of air ellutriation decreases the proportion of dust

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Large and Heavy Particles

(0.42 - 0 mm) by 5.8% and the distribution of ash between the individual size fraction is more uniform (ash content of larger particles is somewhat lower than that of fine fractions) and the coke obtained (on a pilot plant) was stronger than from blends prepared by preferential crushing without air ellutriation. The design and construction of a large scale experimental plant for preferential crushing with air ellutriation in a closed cycle is recommended.

Card 2/2

There are 1 figure, 2 tables and 5 Soviet references.

GRYAZNOV, N.S.; LAZOVSKIY, I.M.; FEL'DBRIN, M.G.

Increasing the use of gas coal in coking oven charges in eastern plants. Ugol' 34 no.4:60-62 Ap '59. (MIRA 12:7)

1. Vostochnyy uglekhimicheskiy institut.
(Ural Mountain region--Coke ovens)

DONDE, M.V.; KAGASOV, V.M.; FOMIN, A.P.; LAZOVSKIY, I.M.

Extent and method of filling silos as factors affecting the
accuracy of proportioning the components of coal charges.
Koks i khim. no.2:16-18 '60. (MIRA 13:5)

1. Chelyabinskiy metallurgicheskiy zavod (for Donde, Kagasov,
Fomin). 2. Vostochnyy uglekhimicheskiy institut (for Lazovskiy).
(Coal--Carbonization)

GRYAZNOV, N.S.; LAZOVSKIY, I.M.; FEL'DBRIN, M.G.; KORENSKIY, V.I.

Preparing coal for coking by the method of pneumatic and mechanical separation. Koks i khim. no.8:4-6 '61. (MIRA 15:1)

1. Vostochnyy uglekhimicheskiy institut.
(Coal) (Coke)

FEL'DBRIN, M.G.; LAZOVSKIY, I.M.

Quality of coke in foreign countries. Koks i khim. no.7:52-59
'63. (MIRA 16:8)

1. Vostochnyy uglekhimicheskiy institut.
(Coke)

GRYAZNOV, N.S.; LAZOVSKIY, I.M.; FEL'DERIN, M.G.

Coal preparation for coking by means of preliminary heating
and efficient crushing. Koks i khim. no.11:10-12 '62.
(MIRA 15:12)

1. Vostochnyy uglekhimicheskiy institut.
(Coal preparation)

KANAVETS, P.I.; MELENT'YEV, P.N.; YENIK, G.I.; IVLEVA, A.S.;
LAZOVSKIY, I.M.; GRYAZNOV, N.S.; MOCHALOVA, G.V.; KORENSKIY, V.I.

Preliminary granulating of coal charges with rolling in mazut.
Koks i khim. no.8:10-14 '63. (MIRA 16:9)

1. Institut goryuchikh iskopayemykh AN SSSR (for Kanavets,
Melent'yev, Yenik, Ivleva). 2. Vostochnyy uglekhiyemicheskiy
institut (for Lazovskiy, Gryaznov, Mochalova, Korenskiy).
(Coal preparation)

TSIPEROVICH, M.V., doktor tekhn.nauk; LAZOVSKIY, I.M., kand.tekhn.nauk;
FEL'DERIN, M.G., kand.tekhn.nauk

Review of A.A.Agroskin and A.K.Shelkov's book "Expansion of the
resources of coking coals." Koks i khim. no.9:63-64 '63.

(MIRA 16:9)

(Coke) (Agroskin, A.A.) (Shelkov, A.K.)

MIROSHNICHENKO, A.M., kand. tekhn. nauk; PANCHENKO, S.I., doktor tekhn. nauk; SHTROMBERG, B.I., kand. tekhn. nauk; FRISHEERG, V.D., kand. tekhn. nauk; BAYDALINOV, P.A., inzh.; GRYAZHOV, N.S., doktor tekhn. nauk; ZASHKVARA, V.G., doktor tekhn. nauk; LAZOVSKIY, I.M., kand. tekhn. nauk; MARINICHEV, B.T., inzh.; FEL'DBICIN, M.G., kand. tekhn. nauk; BAKUN, N.A., inzh.; BARATS, B.M., inzh.; VOZNIYY, G.F., kand. tekhn. nauk; MIKHAL'CHUK, A.M., inzh.; TOPORKOV, V.Ya., kand. tekhn. nauk; FLORINSKIY, N.V., inzh.; KHAYET, A.N., inzh.; SHELKOV, A.K., inzh., red.; ARONOV, S.G., doktor tekhn.nauk, red.; PREOBRAZHENSKIY, P.I., inzh., red.

[Manual for coke chemists in six volumes] Spravochnik koksokhimika v shesti tomakh. Moskva, Izd-vo "Metallurgiya." Vol.1. [Source of raw materials and preparation of coal for coking] Syr'evaia baza i podgotovka uglei k koksovaniiu. 1964. 490 p. (MIRA 17:5)

IAKONENIY, I. V.

Cand. Veterinary Sci.

Dissertation: "Anatomical and Preventive Measures in the Collection and State Farms of Tadzhikistan." All-Union Inst. of Veterinary Acad. Sciences, U. S. S. R., Shymkent, 17 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (in foot 21076).