

3(5)

SOV/25-59-3-14/46

AUTHOR: ~~Felerevich, B.A.~~, Doctor of Geographical Sciences,  
Professor

TITLE: On the Roads of Western China (Po dorogam zapadnogo  
Kitaya)

PERIODICAL: Nauka i zhizn', 1959, Nr 3, pp 39 - 43 (USSR)

ABSTRACT: The author, having visited Western China in 1957  
and 1958, describes his impressions. At the invi-  
tation of the Academy of Sciences of Red China,  
a group of Soviet geographers participated in a  
joint expedition organized to study natural condi-  
tions in Hsin-chiang. The biggest project under way  
is the construction of Central Asian railroad lines,  
connecting Western and Eastern China with the USSR.  
The new highways replacing former caravan routes are  
of equal importance. A problem is the lack of wa-  
ter for irrigation canals in the Central Asian de-  
serts. Apart from rivers and water reservoirs,  
which are not always available, the use of sub-

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On the Roads of Western China

SOV/25-59-3-14/46

ground water - artesian wells - holds such great prospects for the future, that they are called "the gold of the desert". Enormous success has already been achieved in agriculture. If the cotton harvest for 1949 is taken as 100%, this crop reached 543% in 1955 and 1,110% in 1956. There are 5 sketches and 5 photos.

Card 2/2

FELOROVICH, B. A.

"Geomorphological Map of the USSR and Adjacent Territories"

report to be submitted for the Intl. Geographical Union, 10th General Assembly  
and 19th Intl. Geographical Congress, Stockholm, Sweden, 6-13 August 1960.

3(1)

S/026/60/000/02/031/052  
D031/D002

AUTHOR: Fedorovich, B.A., Professor (Moscow)

TITLE: Aurora Polaris in China

PERIODICAL: Priroda, 1960, Nr 2, p 105 (USSR)

ABSTRACT: The author describes an exceptionally bright aurora polaris observed by him and a group of scientific collaborators of the Akademiya nauk SSSR (USSR Academy of Sciences) and the Academy of Sciences of the Chinese People's Republic in the evening of 15 July 1959 from the shore of the Urungu river at Kelensay (Ertay) located at 46° northern latitude and 90°20' eastern longitude. The author emphasizes the fact that on the next day from 11 to 15:40 hours, the blowing hot west wind was accompanied by frequent and very strong gusts of a burning wind which was never observed by the men during the 3 years of their work in Sinkiang. ✓

Card 1/1

GERASIMOV, I.P.; GELLER, S.Yu.; DUMITRASHKO, N.V.; KAMANIN, L.G.; KORZHUJEV,  
S.S.; MESHCHERYAKOV, Yu.A.; FEDOROVICH, B.A.

In memory of Academician N.S.Shatskii. Izv. AN SSSR. Ser. geog.  
no.6:146-147 N-D '60. (MIRA 13:10)  
(Shatskii, Nikolai Sergeevich, 1895-1960)

FEDOROVICH, B. A.

Basic characteristics of the relief of sands in the Kara Kum.  
Trudy Inst. geog. 80:30-59 '60. (MIRA 13:8)  
(Kara Kum--Sand)

FEDOROVICH, B.A.

Formation of loesss in connection with its distribution in Eurasia.  
Trudy Inst. geog. 80:96-117 '60. (MIRA 13:8)  
(Loess)

NIKIFOROVA, K.V., *otv. red.*; LAVRUSHIN, Yu.A., *otv. red.*; LUNGERSGAUZEN, G.F., *red.*; FEDOROVICH, B.A., *red.*; IVANOVA, I.K., *red.*; RAVSKIY, E.I., *red.*; MARENINA, T.Yu., *red. izd-va*; KASHINA, P.S., *tekhn. red.*; NOVICHKOVA, N.D., *tekhn. red.*

[Materials of the All-Union Conference on the Study of the Quaternary Period] Materialy Vsesoiuznogo soveshchaniia po izucheniiu chetvertichnogo perioda, Moscow, 1957. Moskva, Izd-vo Akad. nauk SSSR. Vol.3. [Quaternary sediments in the Asian part of the U.S.S.R.] Chetvertichnye otlozheniia Aziatskoi chasti SSSR. 1961. 442 p. (MIRA 14:9)

1. Vsesoyuznoye soveshchaniye po izucheniyu chetvertichnogo perioda, Moscow, 1957.  
(Soviet Central Asia—Geology) (Siberia—Geology)



FEDOROVICH, B.A., prof.

Weight of snow. Znan.sila 36 no.3:44-45 Mr '61.  
(Snow)

(MIRA 14:3)

FEDOROVICH, B.A.

"Les types dynamiques du relief des sables comme fondement scientifique de la lutte contre les sables."

Report submitted to the IGU Arid Zone Commission Colloquium, Iraklion, Greece, 19-26 Sep 1962.

BASHENINA, Nina Viktorovna; LEONT'YEV, Oleg Konstantinovich;  
PIOTROVSKIY, Mikhail Vladimirovich; SIMONOV, Yuriy  
Gavrilovich; VYSKREBENTSEVA, V.S.; ZARUTSKAYA, I.P.;  
Prinimali uchastiye ZORIN, L.V.; ORLOV, I.V.; ZVONKOVA,  
T.V.; FEDOROVICH, B.A.; SHATALOV, Ye.T., retsenzent;  
GLAZOVSKAYA, M.A., retsenzent; ARISTARKHOVA, L.B., re-  
tsenzent; YERMAKOV, M.S., tekhn. red.

[Methodological guide to geomorphological mapping and  
the carrying out of geomorphological surveys at scales of  
1:50 000 - 1:25 000 (with legend)] Metodicheskoe ruko-  
vodstvo po geomorfologicheskomu kartirovaniu i proizvod-  
stvu geomorfologicheskoi s"emki v mashtabe 1:50 000 -  
1:25 000 (s legendoi). Pod red. N.V. Basheninoi. Moskva,  
Izd-vo Mosk. univ., 1962. 202 p. \_\_\_ [Legend; supplements  
VIII-[XI]] Legenda geomorfologicheskoi karty Sovetskogo  
Soiuza mashtaba 1:50 000 - 1:25 000; prilozhenie VIII-  
[XI] 1960. 25 p. (MIRA 15:7)

(Geomorphology—Maps)

FEDOROVICH, B.A., doktor geograf.nauk (Moskva)

Nature of deserts and their future. Priroda 51 no.10:54-56  
0 '62. (MIRA 15:10)  
(Soviet Central Asia—Deserts)  
(Soviet Central Asia—Reclamation of land)

FEDOROVICH, B.A.

Classification of sands for mapping purposes as exemplified in  
western Turkmenia. Zemlevedenie 5:9-24 '60. (MIRA 15:8)  
(Turkmenistan--Sand--Classification)

FEDOROVICH, B.A.

Permafrost formations in the steppes and deserts of Eurasia.  
Trudy Kom,chetv.per. 19:70-100 '62. (MIRA 16:1)  
(Eurasia--Frozen ground)

BABAYEV, Agadshan Gel'dyyevich; ~~FEDOROVICH, B.A.~~, doktor geogr.  
nauk, prof., red.; KUZ'MENKO, A.I., red.; IVONT'YEVA,  
G.A., tekhn. red.

[The Kara Kum Desert] Pustynia Kara-Kumy. Pod red. B.A.  
Fedorovicha. Ashkhabad, Izd-vo AN Turkm.SSR, 1963. 87 p  
(MIRA 16:8)

(Kara Kum)

ZAYCHIKOV, V.T.; MASHBITS, Ya.G.; NAZAREVSKIY, O.R.; FEDOROVICH, B.A.;  
FREYKIN, Z.G.

Teaching geography in the secondary school. Izv. AN SSSR. Ser.  
geog. no.5:110-118 S-0 '63. (MIRA 16:10)



FEDOROVICH, B.A.; SHCHERBAKOV, D.I.

V.A. Obruchev's activity in the Crimea. Och. po ist. geol.  
znan. no.12:51-62 '63. (MIRA 16:10)

DZERDZEYEVSKIY, B. L., prof.; FORMOZOV, A. N., prof. (Moskva);  
GALAKHOV, N. N., doktor geograf. nauk (Moskva); FEDOROVICH,  
B. A., prof. (Moskva); BUTIYEV, V. T.

What the "Calendar of nature" will tell in 1963. Priroda 52  
no.1:125-128 '63. (MIRA 16:1)

1. Gosudarstvennyy pedagogicheskiy institut im. V. I. Lenina,  
Moskva (for Butiyev).

(Natural history)

FEDOROVICH, B.A., prof. (Moskva)

"Atlas of Irkutsk Province." Reviewed by B.A.Fedorovich.  
Priroda 52 no.3:48 '63. (MIRA 16:4)  
(Irkutsk Province—Maps)

FEDOROVICH, B.A.; SHCHERBAKOV, D.I.

A.E. Fersman, mineralogist, geochemist and transformer of nature.  
Izv. AN SSSR. Ser. geog. no.1:94-100 Ja-F '64. (MIRA 17:3)

KIRYUKHIN, L.G.; KLEYNER, Yu.M.; FEDOROVICH, B.A.; KHONDKARIAN, S.O.

Reviews and bibliography. Biul. MOIP. Otd. geol. 39 no.6:  
122-126 N-D '64. (MIRA 18:3)

GERASIMOV, I.P.; MINTS, A.A.; NAZAREVSKIY, O.R.; FEDOROVICH, B.A.

Present state of the geographical science in Kazakhstan (in connection with the 3d conference of geographers of Kazakhstan).  
Izv. AN SSSR. Ser. geog. no.5:117-119 S-0 '65.

(MIRA 13:10)

FEDOROVICH, B.D.

Vechernyaya Moshva, Tues 10Oct 1950, No. 240 (6111)

On 26 Oct. at 1400 B.D. Fedroovich submitted his dissertation for the title of Cand. of Tech. Sci. on the theme "Problem of the Possibilities of Utilizing a Free Gyroscope for Orienting Underground Workings" at the Moscow Mining Institute imeni K. V. Stalin.

FEDOROVICH, DA

USSR/ Engineering - Pipe welding

Card 1/1 Pub. 128 - 20/26

Authors : Fedorovich, D. A.

Title : Concerning the standardization of welded joints on pipelines

Periodical : Vest. mash. 2, 99-102, Feb 1954

Abstract : Problems related to standardization of welding operations and the adaptation of uniform weld-joints on pipelines are discussed, and technical data is given on requirements and government standards. Tables; diagrams.

Institution : .....

Submitted : .....



FEDOROVICH, D.A., inzhener

Standards for the nominal, testing and effective pressure requirements of pipe fittings and accessories. Standartizatsiia no.6:37 - 46 N-D'54. (MIRA 8:10)

1. Leningradskiy metallicheskiy zavod imeni Stalina  
(Pipe fittings--Standards)

FEDOROVICH, D.A., inzhener

Standard flanges, their packing surfaces and gaskets. Standarti -  
zatsiia no.3:35-45 My-Je.'55. (MIRA 8:10)

1. Leningradskiy metallicheskiy zavod imeni Stalina  
(Flanges--Standards)

**FEDOROVICH, D.A., inzhener.**

Establishing unified standards for flanges used in industrial  
and marine piping. Standartisatsiia no.1:36-43 Ja-Fe '56.  
(MIRA 9:2)

1.Leningradskiy metallicheskiy zavod imeni Stalina.  
(Pipe flanges--Standards)

FEDOROVICH, D.A., inshener.

Standardizing packings used for sealing flange surfaces. Standarti-  
zatsiia. no.5:41-53 S-O '56. (MIRA 10:1)  
(Packing (Mechanical engineering)--Standards))

FEDOROVICH, D. A.

Fedorovich, D. A., Engineer. Hydraulic Test Pressure of Steam Turbine Cylindrical Elements  
page 178

This article deals with the determination of hydraulic test pressures and working pressures for various types of steel at temperatures not specified in existing All-Union State Standards (GOST) 356-52. The article contains tables of turbine design data.

Steam and Gas Turbine Construction, Moscow Mashgiz, 1957, 351 pp.

FEDOROVICH, D.A., inzh.

Specified hydraulic test pressure for cylindrical parts of steam  
turbines. [Trudy] IMZ no.5:178-192 '57. (MIRA 11:6)  
(Steam turbines)

S/114/60/000/003/006/008  
E194/E355

AUTHOR: Fedorovich, D.A., Engineer

TITLE: Flanged Joints for High-pressure Steam Piping

PERIODICAL: Energomashinostroyeniye, 1960, No. 3,  
pp. 38 - 40

TEXT: Existing standards, ГОСТ 3618-58 (GOST 3618-58)  
and 3619-59, for steam conditions for turbines and boilers  
cover maximum working steam pressures of


140 kg/cm<sup>2</sup> at 570 °C with reheat to 570 °C. It is incon-  
venient that there are no standards for flanges for fittings  
and pipes for these steam conditions. Such parts are usually  
welded but this is not always convenient. Several attempts  
have been made, particularly in Germany, to design flanged  
joints but the construction recommended has a number of  
disadvantages. For the steam conditions given above the pipe  
joint recommended comprises two welded flanges spigotted  
together. The opposing faces are separated by a jointing  
ring having annular grooves. Detailed recommendations are

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S/114/60/000/003/006/008  
E194/E355

Flanged Joints for High-pressure Steam Piping

made about the grades of steel to use for flanges and rings, and tables are given of recommended dimensions of flanges, studs and ringed liners or for pipes of various sizes. These flanged joints were designed at the TsKTI (Central Boiler Turbine Institute) where they have been tested and found satisfactory. The flange with grooved seating and jointing ring has been found satisfactory when the flange groove is 1.5 - 2 mm deeper than the thickness of the ring. It was found that the maximum specific load on the contact surface is three or four times greater than the initial yield point of the material of the ring. This is apparently due to friction between the teeth of the ring and the mating surface of the flanges, and also to work-hardening of the metal of the ring. This is why the rings work well with quite a small number of teeth. The rings should be softer than the material of the flanges.



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S/114/60/000/003/006/008  
E194/E355

Flanged Joints for High-pressure Steam Piping

The design principles described can be used to develop flange designs for higher steam conditions up to

255 kg/cm<sup>2</sup> at 585 °C, if the steel 15X1M1Φ (15Kh1M1F) is replaced by a steel of better heat-resisting properties. Flanges of the designs described may now be used by design offices for steam pipes and fittings for the aforementioned steam conditions and they will be incorporated in standard ГОСТ1233-54 (GOST1233-54) when it is next revised.

There are 2 figures, 3 tables and 4 Soviet references.

Card 3/3

FEDOROVICH, D. G.

FEDEROVICH, D. G.

35455. Topografiya Kornya legkiya. V sb: Voprosy grudnoy Khirurgii.  
T. Sh. M., 1949, s. 51-53.

Letopis' Zhurnal'nykh Statey, Vol. 48, Moskva, 1949

PORKHAYEV, G.V., kand.tekhn.nauk; FEDOROVICH, D.I.; SHEYKIN, I.V.;  
DUKHIN, I.Ie.; SHONELONOV, V.K.; SHUR, Yu.L.; FEL'DMAN, G.M.;  
FILIPPOVSKIY, S.M.;

[Thermal physics of freezing and thawing soils] Teplofizika  
promerzaiushchikh i protaivaiushchikh gruntov. Moskva, Nauka,  
1964. 195 p. (MIRA 17:8)

1. Moscow. Institut merzlotovedeniya.

FEDOROVICH, D.I.

Use of semiconductor thermistors for determining the thermophysical characteristics of dispersed materials. Mat. k uch. o nierz. zon. zem. kory no.9:150-186 '63 (MIRA 18:1)

Determining the thermophysical characteristics of soil by means of a field electric exploring apparatus. Ibid. 8:187-194

FEDOROVICH, D. P.

**DECEASED**

1963/3

surgery

c' 1961

see IIC

FEDOROVICI, V.G. [Fedorovich, F.G.]

A new method for the desulfuration of liquid cast iron. Analele  
metalurgie 16 no.2:73-77 Ap-Je '62.

SVETLICHNYI, P.L.; FEODOROVICH, G., redaktor; VUYEK, M., tekhnicheskiy redaktor.

[Manual for coal mine mechanics] Spravochnik mekhanika uchastka ugol'noi shakhty. Kiev, Gos. izd-vo tekhn. lit-ry USSR, 1953.  
312 p. (MLRA 8:2)  
(Coal-mining machinery)

SOV/112-57-9-18334

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 9, p 29 (USSR)

AUTHOR: Korsakov, P., Fedorovich, G.

TITLE: Quick-Combustion Furnaces as a Source of Fuel Economy  
(Topki skorostnogo goreniya -- istochnik ekonomii topliva)

PERIODICAL: Stroit. materialy, izdeliya i konstruktsii, 1956, Nr 8, pp 15-16

ABSTRACT: For 1956, 170, 340 tons of reference fuel consisting largely of production waste, such as sawdust, slabs, wood shavings, and battens, has been allotted for Glavstandartdom enterprises. The boilers at these enterprises have pile-type furnaces and inclined fire-grate furnaces; the boiler capacity decreases as the humidity of fuel increases. These furnaces are clumsy and bulky and in most cases are partly embedded in the ground, which requires their hydroinsulation; a lot of refractory brick and cast iron is necessary for building such furnaces. Over the last five years, new quick-combustion furnaces invented by V. V. Pomerantsev (see figure) and intended for burning wooden waste having up to 55% moisture content have proved fairly successful

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SOV/1112-57-9-18334

**Quick-Combustion Furnaces as a Source of Fuel Economy**

in operation. Fuel (1) is fed by conveyer into the shaft (2) and, as it burns away in the active zone, the fuel sinks and passes the throat (3) of the shaft. The active combustion zone (6) is situated under the throat. Products of wooden thermal decomposition and water vapor enter the second chamber (5), which receives additional air through the port (e) in the roof and receives secondary air through port (d) in the lower part of the chamber. Grating (4) situated between the shaft and the volatile-product combustion chamber precludes fuel entrainment, even under high-forcing conditions (2-10 million kilocal/m<sup>3</sup>hour) in small-size furnaces and even at the high speed of gases through grating meshes. With a fuel moisture content of up to 55%, the air-excess factor is under 1.3-1.5. In small boilers and locomobiles, the grating is made of refractory brick; in medium-size and large boilers, of pipes connected in the boiler's circulation. The furnace permits utilization of chips, sawdust, etc., for power and technological needs, and yields 2 tons of steel, 40 kg of tar, and 15 kg of wood vinegar powder from each cubic meter of such fuel.

I. V. M.

Card 2/2

METALLURGY AND METALS

INDEX AND CROSS

PROCESSES AND PROPERTIES INDEX

FEDOROVICH, G. A. 11

*M*

**"Electrochemical Method for the Determination of Lead in the Tin Coating of Sheet Metal.** G. A. Fedorovich (*Konservirovaniye i Plakirovaniye Pronti. (Preserve, Fruit, Vegetable Tins)*, 1937, (6), 34-36; *Chem. Zentr.*, 1938, 101, (11), 731).—[In Russian.] Dissolve 0.5 gm. of the tinplate in a mixture of 5 c.c. concentrated HNO<sub>3</sub> and 30 c.c. distilled water. Add 10 c.c. of 2% Cu(NO<sub>3</sub>)<sub>2</sub> solution, dilute to 150 c.c. with hot water, and electrolyze for about 1 hr. at 1.5-2 amp. The Pb separates on the anode as PbO<sub>2</sub>. The addition of Cu(NO<sub>3</sub>)<sub>2</sub> causes the PbO<sub>2</sub> to form a firm compact deposit. Dissolve the deposited PbO<sub>2</sub> in concentrated HNO<sub>3</sub> + H<sub>2</sub>O<sub>2</sub> and determine the Pb colorimetrically as PbS by comparison with standard Pb(NO<sub>3</sub>)<sub>2</sub> solutions. By this method about 85% of the Pb contained in the tin coating can be determined. About 2-3 hrs. are required. Cu and Fe do not interfere.

METALLURGY LITERATURE CLASSIFICATION

E 2

KOCHETOVA, L.T., starshiy nauchnyy sotrudnik.; RUMICH, K.N.; ~~FEDOROVICH, G.A.~~  
mladshiy nauchnyy sotrudnik.; SYCHEVA, M.Ye.

New varieties of canned sardines and anchovies. Ref. nauch. rab.  
VNIKOP no.3:17-22 '55. (MIRA 9:11)  
(Anchovies) (Sardines)

*A-u Sci Res. Inst Canning & Drying of Fish.*

**FEDOROVICH, G.A.**

Changes in qualitative indexes of hulled green peas during storage and transportation. Kons. i ov. prom. 12 no.3:16-19 Mr '57.

(MIRA 10:5)

1. Krasnodarskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta konservnoy i ovoshchesushil'noy promyshlennosti.  
(Peas)

FEDOROVICH, G.A.

~~Studying~~ Studying the quality of mechanically harvested peas. Kons. i ov.  
prom. 13 no.6:12-14 Je '58. (MIRA 11:5)

1. Krasnodarskiy nauchno-issledovatel'skiy institut konservnoy  
promyshlennosti.

(Peas)

FEDOROVICH, G.A.; MAMIN, V.N.

Efficiency of using machinery for the removal of impurities in  
pea husking. Kons. i ov. prom. 18 no.11:14-18 N '63.

(MIRA 16:12)

1. Krasnodarskiy nauchno-issledovatel'skiy institut pishchevoy  
promyshlennosti.

FEEDBACK, G.I.

USSR/Human and Animal Physiology. Nervous System.  
Higher Nervous System. Behavior.

T

Abstr Jour: Ref Zhur-Biol., No 20, 1958, 93665.

Author : Fedorovich, G.I.

Last :

Title : Changes in Heart Activity of Dogs with Development in the  
Brain Cortex of Differentiation and Extinction Inhibition.

Orig Pub: Zh. vyssh. nervn. deyat-sti, 1957, 7, No 4, 569-574.

Abstract: In 7 dogs of a strong type with developed stereotyped  
conditioned food reflexes, a study was made of the  
influence on heart activity of extended (up to 6 mi-  
nutes) differentiations and continuous extinction of  
positive reflexes. Development of internal inhibition  
led to a slowing down of the heart contractions, and  
the EKG exhibited a change in voltage of the waves and

Card : 1/2

*Chair Physiologist<sup>135</sup>, Odessa Med Inst*



FEDOROVICH, G.I.

Changes in respiration during the development of internal inhibition  
in the cerebral cortex. Vrach.delo no.10:1025-1029 O '57. (MIRA 10:12)

1. Kafedra normal'noy fiziologii (zav. - prof. F.N.Serkov) Odesskogo  
meditsinskogo instituta.  
(RESPIRATION) (CEREBRAL CORTEX)

FEDOROVICH, G.I. [FEDOROVICH, H.I.]

Effect of placental implantation on the secretory function of the stomach [with summary in English]. Fisiol.shur. [Ukr.] 4 no.3 (MIRA 11:7)  
421-423 My-Je '58

1. Odesskiy medichnyy institut im. N.I. Pirogova, kafedra normal'noi fiziologii.  
(PLACENTA)  
(STOMACH--SECRETIONS)

FEDOROVICH, G. I.: Master Med Sci (diss) -- "The problem of the effect of the cerebral cortex on heart activity and respiration". Odessa, 1959. 16 pp (Odessa State Med Inst im N. I. Pirogov), 200 copies (KL, No 9, 1959, 118)

FEDOROVICH O. I.

Effect of aloe extract injections on gastric secretion. Vrach.  
delo no.3:251-253 Mr '59. (MIRA 12:6)

1. Kafedra normal'noy fiziologii (zav. - prof.N.F.Serkov)  
Odesskogo meditsinskogo instituta.  
(STOMACH--SECRETIONS) (ALOE)

FEDOROVICH, G.I.

Influence of novocaine on the higher nervous activity of old  
dogs. Vrach.delo no.7:54-57 JI '60. (MIRA 13:7)

1. Kafedra normal'noy fiziologii (zaveduyushchiy - prof. F.N.  
Serkov) (Msskogo meditsinskogo instituta.  
(NOVOCAINE) (NERVOUS SYSTEM)

SERKOV, F.N.; FEDOROVICH, G.I.

Inhibiting and stimulating effects of a complementary stimulus  
on the cerebral activity. Zhur. vys. nerv. deiat. 12 no.4:643-  
648 J1-Ag '62. (MIRA 17:11)

1. Chair of Normal Physiology, Medical Institute, Odessa.

LIST AND INDEX OF  
PROCESSES AND PROPERTIES INDEX

23

FEDOROVICH, G. P.  
CA

Abstract text:  
 Abstract from the vinasse of sulfite liquors. G. P. Fedorovich and G. V. Kurenkova. *Izvestiya, Priroda*, No. 7, 41-3(1959); *Chem. Zvest.* 1959, II, 4325. — The fermented vinasse of sulfite liquors contains 30-40% of the original sugar and a total of 18-20% ash. By neutralizing to a pH of 6.5 and concentrating, this liquor, a good binding material for molds can be obtained. The final product is soluble in water, contains water 50.22, dry residue, 49.78 (of which 18.64% is ash), MgO 0.86, CaO 7.81 and reducing substances 11%, and shows an ignition loss of 41.36%. The binding power of the est. is increased by the addition of peat pitch or better of petroleum pitch (about 6%). A disadvantage of the product is its great capacity to absorb water, which cannot be reduced either by aeration or by treatment with Cr compounds. According to another process, lime is added to the vinasse to give a pH of 11.5-12, H<sub>2</sub>SO<sub>4</sub> is then added to reduce the pH to 6-6.5; the liquor is then filtered and evaporated. The final product, however, is inferior to that obtained by the first process. M. G. M.

ASR-11A METALLURGICAL LITERATURE CLASSIFICATION

C-277-22-15-10

FEDOROVICH, G.P., inzhener-khimik.

~~SECRET~~  
"Paraffin stopper" as a fully adequate substitute for water-resistant materials in short supply. Bum.prom. 20 no.4:23-24  
Ap '55. (MIRA 8:6)  
(Paraffins)



FEDOROVICH, G.P., inzhener-khimik.

Ethynol lacquer as means of increasing the strength and waterproof  
properties of wood fiber boards. Bum.prom. 30 no.10:25-26 0'55.  
(Paperboard) (MIRA 9:1)

ARKHINOS, B.Ye.; FOGAN, V.D.; FEDOROVICH, G.P.

Formation of the Spivakovka uplift at the northwest subsidence of  
the Donets Basin. Gaz.prom. 5 no.10:1-5 0 '60. (MIRA 13:10)  
(Donets Basin--Geology, Structural)

DAKHOV, V.N., doktor geol.-miner. nauk; KHOLIN, A.I., kand. geol.-  
miner.nauk; PESTRIKOV, A.S.; GALUZO, Yu.V.; AFRIKYAN, AN.;  
YUDKEVICH, R.V.; POPOV, V.K.; POZIN, L.Z.; LARIONOV, V.V.;  
VENDEL'SHTEYN, B.Yu.; GORBUNOVA, V.I.; DZYURAK, M.D.; YEVDOKIMOVA,  
V.A.; ZHOKHOVA, R.G.; LATYSHEVA, M.G.; MAREN'KO, N.N.; MANCHEVA,  
N.V.; MOROZOVICH, Ya.R.; OREKHOVSKAYA, Ye.P.; POKLONOV, M.S.;  
ROMANOVA, T.F.; SEVOST'YANOV, M.M.; TANASEVICH, N.I.; FARMANOVA,  
N.V.; FEDOROVICH, G.P.; SHCHERBININ, V.A.; ELLANSKIY, M.M.;  
YANUSH, Ye.F.; YUNGANS, S.M., ved. red.; YAKOVLEVA, Z.I., tekhn.  
red.

[Using methods of field geophysics in studying gas-bearing re-  
servoirs]Primenenie metodov promyslovoi geofiziki pri izuchenii ga-  
zonosnykh kollektorov. Moskva, Gostoptekhizdat, 1962. 279 p.

(MIRA 16:2)

(Gas, Natural--Geology)

(Prospecting--Geophysical methods)

FEDOROVICH, G.P.; DZYURAK, M.D.; BROSHTIVSKIY, Ya.O.; KALISHER, I.Ya.

Method of radionic and thermometric investigations under pressure in working producing wells in the Cis-Carpathian region. Neft. i gaz. prom. no.4:36-39 O-D '64 (MIRA 18:2)

LYUBIMOVA, M.N.; DEMYANOVSKAYA, N.S.; FEDOROVICH, I.B., ITOMLENSKITE, I.V.

Functional relation between adenosine triphosphate and leaf movement in *Mimosa pudica*. Dokl. AN SSSR 161 no.4:964-967 Ap '65.  
(MIRA 18:5)

1. Institut biokhimii im. A.N.Bakha i Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR. Submitted April 13, 1964.

KRASNOVSKIY, A.A.; YEROKHIN, Yu.Ye.; FEDOROVICH, I.B.

Fluorescence of green photosynthesizing bacteria and the state of bacterioviridin in them. Dokl. AN SSSR 134 no.5:1232-1235 0 '60.  
(MIRA 13:10)

1. Institut biokhimii im. A.N.Bakha Akademii nauk SSSR i Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. Predstavleno akademikom A.N.Tereninym.  
(CHLOROBIIUM) (FLUORESCENCE) (VIRIDIN)

ACCESSION NR: AP4043943

S/0218/64/029/004/0774/0779

AUTHOR: Lyubimova, M. N.; Demyanovskaya, N. S.; Fedorovich, I. B.;  
Itomlenskite, I. V.

TITLE: Participation of ATP in the motion function of the Mimosa  
pudica leaf

SOURCE: Biokhimiya, v. 29, no. 4, 1964, 774-779

TOPIC TAGS: adenosine triphosphate, ATP, plant motion, motion  
function, nucleotide, macroerg, luciferin, ATP determination, Mimosa  
pudica

ABSTRACT: A study was conducted to establish which nucleotide  
(macroerg) participates in the motive function of the Mimosa pudica  
leaf. It was believed that the motive function in the Mimosa leaf  
is caused by the same factors as in other moving life systems, i.e.,  
the presence of ATP and ATPase. Therefore, quantitative determination  
of ATP was undertaken in all the elements (primary and secondary  
stems, links, and leaflets) of the Mimosa pudica leaf. The links,  
which contain unusual round cells, are considered to be responsible

Card 1/3

ACCESSION NR: AP4043943

for producing the actual motion. ATP was extracted systematically from intact upright leaves anesthetized with ether and frozen in liquid nitrogen, and from fatigued, restored, and "sleeping" leaves. The ATP was extracted from the triturated plant mass with 2.5% trichloroacetic acid, precipitated as Ba-salt, and dried in a dessicator. Quantitative determinations were conducted by the photoluminescence method; measurements were conducted of the intensity of the extract containing luciferin-luciferase, which is directly proportional to the ATP content. It was found that the links contained more ATP than any other leaf elements. The highest amount (approximately 24 ug per 1 g plant raw substance) was found in the leaflet-secondary stem links. The ATP content in the fatigued leaves dropped to 30% of the initial value; in the rested leaves, the ATP content was almost at the initial level. The data obtained indicate that ATP is the leading macroerg in the motion of the leaves of *Mimosa pudica*. Gratitude is expressed to Prof. L. A. Tumerman for the use of facilities for the determination of small amounts of ATP. Orig. art. has: 4 figures and 1 table.

Card 2/3



ACCESSION NR: AP4043943

ASSOCIATION: Institut biokhimii im. A. N. Bakha (Institute of Biochemistry); Institut radiatsionnoy i fiziko-khimicheskoy biologii Akademii nauk SSSR, Moscow (Institute of Radiation and Physicochemical Biology, Academy of Sciences SSSR)

SUBMITTED: 04Apr64

ATD PRESS: 3089

ENCL: 00

SUB CODE: LS

NO REF SOV: 010

OTHER: 014

Card 3/3

OSTROVSKIY, M.A.; FEDOROVICH, I.B.

Enzymatic (adenosinetriphosphatase) activity of digitonin extracts of rhodopsin (visual purple) and its change under the influence of visual light. Dokl. AN SSSR 162 no.6:1412-1414 Je '65. (MIRA 18:7)

1. Institut vysshey nervnoy deyatel'nosti i neyrofiziologii AN SSSR i Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR. Submitted October 12, 1964.

FEDOROVICH, K., inshener (Minsk); KULBITSKIY, F., inshener (Minsk).

Demonstration building of a school in Minsk. Gor. i sel'. stroi.  
no.2:12-13 F '57. (MLRA 10:6)  
(Minsk--Schoolhouses) (Reinforced concrete construction)

FEDOROVICH, L.

Account to one's conscience. Sov. profsoiuzy 19 no.13:29 J1  
'63. (MIRA 16:9)

1. Organizator profsoyuznoy gruppy vypusknoy uchastka chulochno-  
trikotazhnoy fabriki, Smolensk.  
(Smolensk--Trade unions--Officers) (Smolensk--Knit goods industry)

YELIZAROV, D.P., kand.tekhn.nauk; FEDOROVICH, L.A., inzh.; YASIN, S.,  
inzh.

Stresses in the drum of a TP-80 boiler during its firing.  
Teploenergetika 11 no. 1:28-32 Ja '64. (MIRA 17:5)

1. Moskovskiy energeticheskiy institut.

I. 27113-66

ACC NR: AP6017472

SOURCE CODE: UR/0020/65/162/006/1412/1414

AUTHOR: Ostrovskiy, M. A. — Fedorovich, I. B.  
ORG: Institute of Higher Nervous Activity and Neurophysiology, AN SSSR  
(Institut vysshey nervnoy deyatel'nosti i neyrofiziologii AN SSSR);  
Institute of Radiation and Physicochemical Biology, AN SSSR (Institut  
radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR)

TITLE: Change in enzymatic (ATPase) activity of digiton in extracts of rho:opsin  
(visual purple) after exposure to visible light

SOURCE: AN SSSR. Doklady, v. 162, no. 6, 1965, 1412-1414

TOPIC TAGS: enzyme, organic phosphorus compound, biophysics, luminescence

ABSTRACT: In one series of experiments, a medium containing a buffer, MgSO<sub>4</sub>, ATP, and rhodopsin or indicator yellow, with pH 7, was incubated for 25-30 min. Changes in ATP content were determined by the bioluminescence method in 0.2 ml of the medium withdrawn every 2-3 min. ATPase activity was evaluated from the decrease of ATP in the incubation medium. The experiments revealed considerable ATPase activity of the digitonin extracts of rhodopsin (obtained from dark-adapted intact frog retinas). The speed of the reaction was quite high. In control experiments of this series, a digitonin solution or visual pigment denatured by heating was added to the incubation medium instead of the rhodopsin. Neither had any significant effect on the amount of ATP in the medium.

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L 27113-66

ACC NR: AP6017472

In a second series of experiments, changes in ATP content under the influence of rhodopsin were recorded directly in a luciferin-luciferase system. As a control, digitonin was added to the luciferin-luciferase-ATP complex. It had no effect on the shape of the kinetic curve of bioluminescence extinction. The rate of the reaction was determined from the difference between the intensity of bioluminescence in the experiment (rhodopsin) and in the control (digitonin).

A comparison of the enzymatic activity of rhodopsin and the product of its decoloration showed that the latter had less ATPase activity.

The authors draw no conclusions from their experiments, but they conjecture that the enzymatic activity of visual pigment is largely dependent on the chromophore-protein bond and on a certain steric configuration of both opsin and retinene. Therefore, the activity of indicator yellow, in which this bond and the configuration of both parts of the chromoprotein molecule are sharply impaired, is much less.

The presence of enzymatic activity in visual purple and changes therein after exposure to visible light will help to elucidate the primary mechanisms of photoreception. This paper was presented by Academician V. A. Engelgardt on 12 October 1964. Orig. art. has: 4 figures. [JPRS]

SUB CODE: 06, 20 / SUBM DATE 12Oct64 / ORIG REF: 004 / OTH REF: 008

Card 2/2 V

YELIZAROV, D.P., kand. tekhn. nauk; FEDOROVICH, L.A., inzh.; YASIN, S., inzh.

Stresses in the austenitic collectors of a steam superheater during  
the firing of a boiler. Teploenergetika li no.6:37-40 Je '64.  
(MIRA 18:7)

1. Moskovskiy energeticheskiy institut.



YELIZAROV, D.P., kand. tekhn. nauk; FEDOROVICH, L.A., inzh.; YASIN, S., inzh.

Stresses during the heating of thick-walled flanges of main  
steampipes. Elek. sta 36 no.4:36-42 Ap '65. (MIRA 18:6)

A/L 10551-66 EWT(m)/EWP(w)/EWA(d)/EWP(t)/EWP(k)/EWP(z)/EWP(h)/EWA(c) JD/HM/EM	
ACC NR: AP6000784	UR/0095/65/000/009/0034/0038
AUTHOR: Gorelkin, B.G. (Engineer); Krasil'nikov, S.M. (Engineer); Fedorovich, L.A. (Engineer); Yelizarov, D.P. (Candidate of Tech.Sci.); Fedosov, A.I. (Candidate of Tech.Sci).	
ORG: TsNIITMASH; MEI	
TITLE: The problem of the stresses acting in a steam pipe made of austenitic steel	
SOURCE: Teploenergetika, no.9, 1965, 34-38	
TOPIC TAGS: stress analysis, pearlite steel, austenite steel, steam power plant, pipe/1Kh18N12T steel	
ABSTRACT: The high temperature coefficient of linear expansion and the low coefficient of thermal diffusivity of austenitic steel bring about, in the wall of the steam pipe, higher temperature and compensation stresses than in steam pipes made of pearlitic steel. In the experiments, the initial pressure of the steam before the turbine was 170 bars and the temperature was from 550 to 570°C. Each block of the unit, with a power up to 150 Mwt, consisted of a turbine and two boilers connected with the turbine by four lines of main steam piping (two from each boiler). The steam piping tested was made of 1Kh18N12T steel and had a diameter and a wall thickness of 219 x 27 mm. Measurement of the stresses at high steam	
Card 1/2	UDC: 624.058.5:621.772.4.001.45

L 10551-66

ACC NR: AP6000784

temperatures was effected with type MEI<sup>24</sup> mechanical tensometers<sup>19</sup>. The<sup>2</sup> tangential stresses were evaluated by calculation and, knowing the tangential stress, it is possible to calculate the tangential deformation. Finally, the axial stress can then be calculated. A series of tests was run to determine the dependence of the tangential stresses on the rate of heating of the pipe up to a temperature of 550<sup>o</sup>C. Results are shown graphically. If the "rate" stresses are added to the static stresses measured with the tensometers, the authors arrive at a value on the order of 15 kg/mm<sup>2</sup> which is close to the standard yield point for 1Kh18N12T steel. In conclusion, the proposition is advanced that one possible reason for the failure of welded joints in austenitic steel steam pipes is the increased magnitude in the sum of the stresses brought about by the superposing of significant "rate" stresses, connected with variations in the steam temperature, on top of the static stresses. Orig. art. has: 4 formulas and 5 figures.

SUB CODE: 11,13 SUBM DATE: 00 ORIG REF: 003 OTH REF: 000

Card

2/2pw

FEDOROVICH, L.G.  
S.A.  
Sect. A

optics

313,375,508

1944. On M. M. Zakharenko's paper "Photo-  
electric method of investigating Raman spectra." L. G.  
FEDOROVICH AND YA. S. BUKHOVICH. Zh. Eksp.  
Teor. Fiz. 20, 1139-41 (No. 12, 1950) in Russian.  
See Abstr. 7161 (1952). Some inaccurate state-  
ments are pointed out. The increase of the light-  
transmitting power of the collimator, obtained by  
reducing the focal distance at a given object-lens  
distance and a constant slit width, is made at the  
expense of the purity of the spectrum. Hence, given  
identical diameters of the working apertures, identical  
field-of-vision angles of the object lenses, and identical  
spectrum purity requirements, a light system with a  
high light-transmitting power (short focal distance)  
does not present any gain in the light flux, compared  
with a long-focal-distance system. The authors give  
preference to wider and higher slits combined with  
long-focal-distance optics.  
F. LACRMAN

FEDOROVICH, L. G.

USSR/Physics - Spectral Analysis

Card : 1/1

Authors : Kalinyak, A. A. and Fedorovich, L. G.

Title : Effect of an electrical field on the absorption spectrum of cupric oxide at low temperature

Periodical : Dokl. AN SSSR, 96, Ed. 6, 1137 - 1138, June 1954

Abstract : Phenomena occurring in an electrical field and their effect on the absorption spectrum of cupric oxide, cooled by submerging in liquid nitrogen, were investigated. Strong electrical fields, reaching several tens of kv per cm reveal the following two phenomena simultaneously: 1) the appearance in the spectrum of new very-weak lines which coincide with none of the known lines and 2) the lines of the first "exciton" series are being displaced toward the long-wave side of the spectrum and expand. It was established that the position of these lines in the spectrum does not depend or depends only slightly upon the field intensity. Four references. Photos, table.

Institution : The S. I. Vavilov State Optical Institute

Presented by : Academician A. A. Lebedev, March 6, 1954

FEDOROVICH, LEONID GRIGOR'YEVICH

PHASE I BOOK EXPLOITATION

959

Krichevskiy, Yevgeniy Samoylovich, Fedorovich, Leonid Grigor'yevich, and Petisov, Vladimir Fedorovich

Elektrooborudovaniye optiko-mekhanicheskikh priborov (Electrical Equipment of Optical-Mechanical Instruments) Moscow, Oborongiz, 1958. 467 p. 8,000 copies printed.

Reviewers: Vertsner, V.N., Candidate of Physical and Mathematical Sciences, Kruger, M.Ya., Engineer, Shoshin, I.A., and Sobolev, S.F.; Ed.: Dulin, V.N., Candidate of Technical Sciences; Ed. of Publishing House: Bogomolova, M.F.; Tech. Ed.: Pukhlikova, N.A.; Managing Ed.: Sokolov, A.I., Engineer.

PURPOSE: This monograph has been approved as a textbook for tekhnikums by the Administration of Secondary Professional Schools of the Ministry of Higher Education, USSR. The book is addressed to students taking courses in the design and construction of optical-mechanical instruments and equipment. It may also be of use to engineering and technical personnel in the industry.

COVERAGE: This book describes basic electrical devices and systems, their design and their special form as applied to optical-mechanical instruments and equipment. The book contains selected reference material necessary to the student

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Electrical Equipment of Optical-Mechanical (Cont.)

for design projects. According to the authors, the present work is the first attempt to systematize the varied material on the subject of electric circuits and systems of optical-mechanical equipment. Part I of Chapter 3, and Parts I and III of Chapters 4, 5, 8 and 9 were written by Ye.S. Krichevskiy. Part II of Chapters 1, 2, and 3, and Part II and IV of Chapters 7 and 9 were written by V.F. Fetisov. Chapter 6 was written by L.G. Fedorovich. The authors thank Candidate of Physical and Mathematical Sciences, V.N. Vertsner and Engineers M.Ya. Kruger, S.F. Sobolev, and I.A. Shoshin for their help in editing the book. There are 132 references, all Soviet (including 3 translations).

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1-7-59



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7. Results of conducting lessons and solving problems in projective drawing. Izv. Akad. ped. nauk RSFSR No. 21, 1949.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

~~FEDOROVICH, L.V.~~

Some methods for solving problems involving sections in polyhedra.  
Uch. zap. MOPI 151:111-130 '60. (MIRA 16:5)  
(Geometry--Study and teaching)

FEDOROVICH, M.

Using mathematics and electronic calculating machines in plant  
planning. Vop. ekon. no.8:90-103 Ag '61. (MIRA 14:7)  
(Economics,Mathematical) (Electronic calculating machines)

FEDOROVICH, M.

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Using mathematics in the planning and organization of industrial  
production. Vop. ekon. no.10:152-158 0 '61. (MIRA 14:10)  
(Economics, Mathematical)

FEDOROVICH M.

Research in the economics of the chemical industry. Vop.  
ekon. no.11:155-157 N '63. (MIRA 17:2)

FEDOROVICH, M.

Problems of the comprehensive automation of production. Vop.ekon.  
no.7:41-48 J1 '62. (MIRA 15:7)

(Automation)

KNUNYANTS, I., akademik; FEDOROVICH, M.

"Economics of the synthetic materials industry" by N.P.Fedorenko.  
Reviewed by I.Knuniants, M.Fedorovich. Vop. ekon. no.8:120-122  
Ag '62. (MIRA 15:8)

(Synthetic products) (Fedorenko, N.P.)

FEDOROVICH, M., prof.

Mathematical methods in economic research. Plan. khoz. 41  
no.1:85-89 Ja'64. (MIRA 17:2)



FEDOROVICH, M.

"Productive Capacity of an Industrial Enterprise and the Methodological Principles of Computing It," Voprosy Ekonomiki, No 2, 1954

Translation W-30969, 27 Sep 54

FEDOROVICH, M. M.

PHASE I BOOK EXPLOITATION

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Fedorovich, Mikhail Mikhailovich, Candidate of Economic Sciences

Upravleniye sotsialisticheskim promyshlennym predpriyatiyem (Management of Socialist Industrial Enterprises) Moscow, Izd- "Znaniye", 1957. 39 p.  
(Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy. Seriya III, 1957, no. 23) 85,000 copies printed.

Ed.: Falaleyeva, T. F.; Tech. Ed.: Gubin, M. I.

PURPOSE: The brochure is written to acquaint the general reader with the basic aspects of Soviet management of industrial plants, shops, etc.

COVERAGE: The author, after taking into consideration existing Soviet industrial practices, the recent decentralization of controls, and also the proposals made during the nation-wide review of the decree on the reorganization of industry presents a number of specific recommendations that could lead to an improvement in the management of industrial enterprises. The decree on administrative decentralization of Soviet industry abolished the majority of All-Union and Union Republic ministries, as well

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Management of Socialist Industrial Enterprises

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as a considerable number of Republic ministries. It preserved only the All-Union ministries for Aviation, Defense, Radio Communications, Shipbuilding and Chemical industries, Medium Machine Building, Transport Equipment, and Electric Stations. The activities of the above ministries are limited to coordination planning and technical surveillance functions to be exercised through regional administrative councils. In place of the abolished ministries, the Soviet Government organized 105 economic administrative regions, of which 70 are in the RSFSR, 11 in the Ukrainian SSR, 9 in the Kazakh SSR, 4 in the Uzbek SSR, and one each in the remaining republics. Administrative control in each economic region is vested in National Economic Councils which in turn are subjected to the Council of Ministers of the respective republic. The Council of Ministers of the USSR exercises its control over national economy through the Council of Ministers of each republic. There are no references.

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May 26, 1958

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