

RENCEVICH, A.A., kand.tekhn.nauk; BILAN, I. Ye., gornyy inzhener; KLIMOV, V.V.,
gornyy inzhener

Testing electric dynamometers with sensitive wire transducers.
Vop. rud. transp. no.3:305-311 1959. (MIRA 14:4)

1. Dnepropetrovskiy gornyy institut.
(Dynamometer)

KLIMOV, V.V., gornyy inzhener; PODOPRIGORA, A.S., gornyy inzhener

**Low-power electric dynamometer. Vop. rud. transp. no. 312-314
1959. (MIRA 14:4)**

**1. Dnepropetrovskiy gornyy institut.
(Dynamometer)**

BILICHENKO, N.Ya.; ZAVGORODNIY, Ye.Kh.; VYSOCHIN, Ye.M.; KLIMOV, V.V.

High-duty electric ring dynamometers. Izv.tekh. no.1:21-23 Ja'62.
(MIRA-~~2002~~)

(Dynamometer)

KLIMOV V. Ya.

ROMANOV, A.I., inzhener IAS; KLIMOV, V.Ya., general-mayor, Geroy
sotsialisticheskogo truda, glavnyy konstruktor motorov; BALAN-
DIN, V.P., general-mayor IAS.

[The VK-107A and VK-108 airplane engines] Aviatsionnye motory
VK-107A i VK-108. Moskva, Gos. izd-vo obronnoi promyshlennosti,
1946. 112 p. [Microfilm] (MLRA 7-11)
(Airplanes--Engines)

KLIMOV, VLADIMIR YAKOVLEVICH
KLIMOV, VLADIMIR YAKOVLEVICH.

(In: Bol'shaia Sovetskaia Entsiklopedia. Izd. 2. v. 21. Moskva, 1973, p. 134, port.)

AF55.B62

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

KLIMOV, V.Ye.

Natural regeneration in the cowberry and heather pine forest
cutovers in northern Novgorod Province. Nauch. trudy LTA
no.99:49-51 '62. (MIRA 17:1)

KLIMOV, V. Yu.

37201

5/560/61/000/011/007/012
E027/E635

272400

AUTHORS: Zhukov-Vereshnikov, N.N., Mayskiy, I.N.,
Yazdovskiy, V.I., Pehov, A.P., Gyurdzhian, A.A.,
Nefed'yeva, N.P., Kapichnikov, M.N., Pedopilelov, I.I.,
Rybakov, N.I., Klemparskaya, N.N., Klimov, V. Yu.,
Novikov, S.N., Novikova, I.S., Petrov, N.V.,
Sushko, N.G., Ugryumov, Ye.P., Fedorova, G.I.,
Zakharov, A.F., Vinogradova, I.N., Chanova, K.G.
and Buyko, Ye.A.

TITLE: The results of the first microbiological and
cytological experiments in Space in Earth satellites

SOURCE: Akademiya nauk SSSR. Iskusstvennyye sputniki Zemli.
no. 11. Moscow, 1961. Rezul'taty nauchnykh
issledovaniy, provedennykh vo vremya poletov vtorogo
i tret'yego kosmicheskikh korablye-sputnikov, 44 - 67

TEXT: The authors report the results of their investigations
of biological objects which had been exposed to space conditions
in satellite vehicles. The first part of the work was devoted
to a study of the survival of cells of differing levels of
organization under the influence of radiation and other
Card 175

11

S/560/61/000/011/007/012
E027/E635

The results of the ---

unfavourable factors, in comparison with control materials which remained in the laboratory over the same period. In experiments with bacteria 2ml. samples of suspensions of Escherichia coli, Aerobacter aerogenes, Staphylococcus aureus and Clostridium butyricum containing 500 million organisms or spores per ml. were sealed in ampoules, and exposed to a space flight of unstated duration; the number of viable individuals after the exposure did not differ significantly from the values for the control samples. A similar experiment was carried out with the T2 phage of E. coli and the 1321 phage of A. aerogenes, which were sent in the second satellite; again, no significant reduction in the titre of the phage preparations could be detected after return from space. Similar results were obtained with preparations of phage sent into space in the fourth and fifth satellites. Two bottles and six tubes of HeLa cells, some of which were saturated with oxygen, were exposed to space flight

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S/560/61/000/011/007/012
R027/R635

The results of the . . .

conditions, after it had first been shown that vibration and acceleration did not detach the cells from the glass. The cultures without oxygen appeared normal on return, whereas in those exposed to oxygen most of the cells had degenerated. Subculture showed that 90% of the cells, whether detached from or remaining on the glass, were dead; however, two tubes gave good growth, and the cells which grew up showed no abnormalities of morphology. No antigenic differences could be detected in the cells in anaphylaxis and desensitization experiments in guinea-pigs. In subsequent space flights fibroblast and human amnion cell cultures were studied, with similar results. Pieces of human and rabbit skin were also used. On August 12th 1960 two pieces of skin 2.5 x 3.5 cm. in size and 0.5 mm. thick were taken from a human donor, placed in Hanks solution and sent into space in the second satellite. On recovery they were regrafted on the original site in the donor and became firmly attached after seven days.

J.

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S/560/61/000/011/007/012
E027/E635

The results of the ---

Similar results were obtained with two other donors. An apparatus was devised for making a subculture in space, in order to study the ability of bacteria to multiply under space conditions. In experiments with *Glostridium butylicum* no deviations from the controls were observed. The second part of the work was devoted to a study of possible genetic effects brought about by exposure to space conditions, mainly by looking for the production of auxotrophic mutants and lysogeny in bacteria. The former were detected by inoculation on a layer of minimal medium which was then covered with an overlay of the same medium in order to fix the colonies. When the latter had grown up their position was noted and an overlay of complete medium was then put on, and the colonies which then grew up as a result of the diffusion of essential nutrients were selected as auxotrophic mutants. No such mutants could be found in suspensions of *Escherichia coli* recovered from the second satellite. The experiments on the induction of lysogenic bacteria were carried out on a strain of *E. coli* lysogenized by a λ phage which had been exposed to cosmic

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The results of the ---

S/560/61/000/011/007/012
E027/E655

radiation in the fifth satellite. Free phage particles were removed by adding phage antiserum; after the end of the latent period the action of the antiserum was cut short by diluting 1:100, streptomycin was added to inhibit the host organisms, and the mixture was plated out on the indicator strain in order to count the phage particles produced. The results obtained, considered in comparison with control experiments, provided no evidence of induction by cosmic radiation during a space flight of ninety minutes. No difference was observed in the plaque morphology. No changes could be detected in the chemical and physical properties of calf thymus deoxyribonucleic acid recovered after a space flight. The results as a whole indicate that no damage was suffered by isolated cells during a brief exposure to space conditions. There are 6 figures and 10 tables.

f

SUBMITTED: May 23, 1961

Card 5/5

TSNYTLIN, P.I.; UGAROVA, T.Pa.; KLIMOV, V.Pa.; SOKOLOVA, T.D.

**Differences in the radiosensitivity of deoxyribonucleoproteins
and DNA. Biokhimiia 25 no.1:129-134 Ja-F '60. (MIRA 13:6)**

**1. Institute of Experimental Biology, Academy of Medical Sciences
of the U.S.S.R., Moscow.**

**(RADIATION EFFECTS)
(NUCLEOPROTEINS)
(DESOXYRIBONUCLEIC ACID)**

KLIMOV, V.Yu.; CHAMOVA, K.G.

Study of the anaphylactogenic properties of deoxyribonucleic acids in tissues. Nauch. inform. Otd. nauch. med. inform. AMN SSSR no.1:13-14 '61 (MIRA 16:11)

1. Institut eksperimental'noy biologii (direktor - prof. I.N. Mayskiy) AMN SSSR, Moskva.

*

KLIMOV, Vasilii Zakharovich, inzh.; RISKIND, B.Ya., inzh., red.;
SVET, Ye.B.

[Determining the volume and weight of raw materials and
fuel by the method of surveying measurements] Oprelenie
ob'ema i vesa syr'ia i topliva metodom geodesicheskikh
izmerenii. Cheliabinsk, Ushno-Ural'skoe knizhnoe izd-vo,
1964. 127 p. (MIRA 18:8)

KLIMOV, Ya. I., Cand Agr Sci - "Certain problems of ~~hard-~~^{the}
~~short~~ agricultural engineering in the ~~forest and-~~^{of hard wheat} ~~steppe~~^{wooded} of the
Southern Ural^s." Chelyabinsk, 1961. (Min of Agr RSFSR.
Saratov Agr Inst) (KL, 8-61, 254)

KLIMOV, Ye.

A volunteer lecturer is on the tribune. Sov. profsoiuzy 19 no.13:
20-23 J1 '63. (MIRA 16:9)

1. Zaveduyushchiy lektorskoy gruppoy Peraskogo oblastnogo
promyshlennego soveta professional'nykh soyuzov.
(Pera--Trade unions) (Lectures and lecturing)

TARCHEVSKIY, Igor' Anatol'yevich; ALEKSEYEVA, A.M., prof., red.;
KLIMOV, Ye.A., red.

[Photosynthesis and drought] Fotosintez, zasukha. Kazan',
Izd-vo Kazanskogo univ., 1964. 197 p. (MIRA 18:7)

KLIMOV, Ye.A.

Individual peculiarities in the work habits of those operating
several looms in relation to the mobility of the nerve processes.
Vop.psikhol. 5 no.2:66-76 Mr-Apr '59. (MIRA 12:6)

1. Kazanskiy universitet. Permskiy pedinstitut.
(Job analysis) (Nervous system)

GUREVICH, K.M.; KLIMOV, Ye.A.

Third Conference of the Ural Branch of the Psychological Society.
Vop. psikhol. 6 no.5:168-170 8-0 '60. (MIRA 13:11)
(Psychological societies)

KLIMOV, Ye.A.

Some peculiarities of motor action in connection with typological distinctions in the mobility of the nervous processes. *Vop, psikhol.* 6 no.3:89-97 My-Je '60. (MIRA 14:5)

1. Kazanskiy gosudarstvennyy universitet.
(Movement, Psychology of)

POLYANIN, V.A., prof., nauchn. red.; MARKOV, M.V., prof.,
nauchn. red.; TOROPOVA, V.F., prof., nauchn. red.;
KLIMOV, Ya.A., red.

[Collection of papers of graduate students; natural sci-
ences] Sbornik aspirantskikh rabot; estestvennye nauki.
Kazan', Izd-vo Kazanskogo univ., 1965. 178 p.

(MIRA 18:11)

1. Kazan Universitet.

KAMENICHNYI, I.S.; STUDEINSKIY, N.M., kandidat tekhnicheskikh nauk,
retsensent; KLIMOV, Ye.M., inzhener, redaktor; NESTERENKO,
D.M., tekhn. redaktor.

[Heat treatment practice] Praktika termicheskoi obrabotki
instrumenta. Kiev, Gos. nauchno-tekhn. iss-vo mashino-stroit.
lit-ry, 1952. 101 p. (MIRA 9:5)
(Steel--Heat treatment)

ARBUZOV, Yu.A.; KLIMOV, Ye.M.; KOROLEV, A.M.

Diene synthesis involving 1-methoxy-4-penten-3-one and
1,4-pentadien-3-one. Zhur.ob.khim. 32 no.11:3681-3687
N '62. (MIRA 15:11)

1. Moskovskiy gosudarstvennyy universitet imeni
M.V. Lomonosova.
(Pentenone) (Pentadienone)
(Chemistry, Organic-Synthesis)

L 28028-66 EWI(d)/EWF(m)/T-2/EWP(h)

ACC NR: AN6015749

(M)

SOURCE CODE: UR/9023/66/000/043/0003/0003

AUTHOR: Klimov, Yu.

44
B

ORG: none

TITLE: Mighty wings. [New aircraft for Soviet civil aviation]

SOURCE: Sovetskiy patriot, 29 May 66, p. 3, col. 1-7

TOPIC TAGS: aircraft, aircraft performance, agricultural machinery, helicopter/
IL-62 aircraft, TU-144 aircraft, AN-2M aircraft, AN-14 aircraft, MI-10 helicopter

ABSTRACT: Flight and performance characteristics of the IL-62, TU-144, AN-2M, AN-14 airplanes and the MI-10 helicopter are described. The AN-2M (designed by O. K. Ant-
nov), used for spraying agricultural crops with insecticides, can carry up to 2000
liters of insecticides and requires only one pilot; the AN-14 aircraft is also men-
tioned in connection with agriculture. Plans for increasing the number of 'flying
crane' helicopters such as the MI-10, are discussed. Orig. art. has: 2 photographs.

SUB CODE: 0147 SUBM DATE: none

Card 1/1

Op

2

8/020/63/148/004/009/625
B112/B101

AUTHOR: Klimov, Yu. G.

TITLE: Deflection of light rays in galactic gravitational fields

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 148, no. 4, 1963,
789-792

TEXT: The author suggests the measurement of the deflection of light of a galaxy G_1 by a galaxy G_2 which screens galaxy G_1 (see Figure) seen from point P. The equation for the light rays is

$$(dr/d\psi)^2 = (r + a)^4/b^2 - (r + a)(r - a) \quad (1)$$

where $a = \gamma M/c^2$, γ being the gravitational constant and M the mass of G_2 .

The angle of deflection is $\psi = 4a/b$. Furthermore, the relations $4a/a_2(1 + k) = \delta^2$, $k = a_2/a_1$ are valid. The author discusses the possibilities of determining the necessary data experimentally. He deems it possible to prove general relativity experimentally by this

Card 1/2

Deflection of light rays in ...

S/020/63/148/004/009/025
B112/B101

Method. There are 4 figures and 2 tables.

ASSOCIATION: Moskovskiy inzhenerno-fizicheskiy institut (Moscow
Engineering Physics Institute)

PRESENTED: August 14, 1962, by A. P. Aleksandrov, Academician

SUBMITTED: July 14, 1962

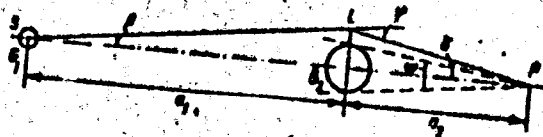


Fig. 1

Card 2/2

KLIMOV, Yu.G.

Screened galaxies and an experimental test of the general theory
of relativity. Astron. zhur. 40 no.5:874-881 S-O '63.
(MIRA 16:11)

L 33748-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1) BC

ACC NR: AM6017325

(A)

SOURCE CODE: UR/0273/66/000/001/0033/0033

72
B

AUTHOR: Khranov, Yu. V.; Klinov, Yu. I.

TITLE: Computing transition processes in the YaMZ-238 diesel engine on an M-3 electronic computer

SOURCE: Ref. sb. Dvigateli vnutrennego sgoraniya, Abs. 1.39.242

REF SOURCE: Tr. Tsentr. n.-i. avtomob. i avtomotora. in-ta, vyp. 74, 1965, 34-48

TOPIC TAGS: data processing, engine component, diesel engine, electronic computer/
YaMZ diesel engine, M-3 electronic computer

ABSTRACT: The agreement of results from computing transition processes in the YaMZ-238 engine with experimental data confirms the correctness of the computing investigation of a given non-linear system. Applying the computing method based on electronic computing machines and a ready-made standard program in engineering practice permits considerable decrease in experimental work in research and adjustment of automatic control systems of internal combustion engines.

SUB CODE: 09/ 13; 21/ SUBM DATE: none

Card 1/1

PLG

UDC: 621.436.001.24.681.13.1.39.242

KLIMOV, Yu.M.; CHIKIN, V.V.; ANISIMOV, N.I.; BARSKOV, I.M.; VINOGRADOV, Yu.V.; GAVRILOV, A.N.; GAUKHMAN, L.A.; OLOV, A.P.; GOL'DMAN, L.S.; GORMANNIKOV, O.I.; YEFIMOV, A.N.; ZALUTSKIY, M.S.; ZAYTSEVA, A.V.; OIYRTEH, A.I.; KANDARITSKIY, V.S.; KAPRANOV, I.A.; KOVALEV, N.I.; KOVALEVSKIY, K.A.; KOLOSOV, A.F.; KRIVOV, A.S.; KRYLOV, R.M.; LEVITAS, A.G.; MALYOIN, M.A.; MORALEVICH, Yu.A.; MOTYLEV, A.S.; NESTEROV, M.V.; NIKOL'EKIY, A.V.; OHLOV, O.M.; OHLOV, Ya.L.; PAREN'SKIY, V.M.; POLYAKOV, A.S.; RUBIN, V.I.; SVANIDZE, K.N.; STRIGIN, I.A.; TAKOYEV, K.F.; TRUBNIKOV, S.V.; CHERNYSHOVA, L.N.; CHEBNOKOV, N.Ye.; SHAMBERG, V.M.; STEJNILIN, S.G., akademik, red.; ANTOSENKOVA, L., red.; MIKALYAN, E., red.; MUKHIN, Yu., tekhn.red.

[Dictionary of the seven-year plan from A to Z] Slovar' semiletki ot A do IA. Moskva, Gos.isd-vo polit.lit-ry, 1960. 397 p.

(MIRA 13:7)

(Russia--Economic policy)

ARBUZOV, Yu.A.; KLIMOV, Ye.M.; KLIMOVA, Ye.I.

Diene synthesis with glyoxylic acid esters. Dokl. AN SSSR
142 no.2:341-343 Ja '62. (MIRA 15:2)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
Predstavleno akademikom A.Ye.Arbusovym.
(Olefins)
(Glyoxylic acid)

L 12714-63

EWI(1)/FCC(w)/BDS/ES(v) AFPTC/ESD-3 Pe-4 GW

ACCESSION NR: AP3000293

S/0020/63/150/001/0064/0067

59

AUTHOR: Klimov, Yu. G.

TITLE: Utilization of light deflection by the gravitational galactic fields in extragalactic astronomy

SOURCE: AN SSSR. Doklady, v. 150, no. 1, 1963, 64-67

TOPIC TAGS: gravitational galactic fields, extragalactic astronomy, photocells, photomultipliers

ABSTRACT: The light deflection in the gravitational field which is a consequence of the general theory of relativity can find practical application in extragalactic astronomy. One of the applications is the increase of the penetrating power of a telescope. It is shown that light coming from a distant galaxy produces a greater illumination when there is another galaxy between the telescope and the galaxy under study. Light deflected by the "screening" galaxy will be observed as a ring around the image of the latter. Expressions are derived for the illumination with and without the interposing galaxy. For the observation of the light rings which are due to light deflection, integrating devices such as photocells or photomultipliers must be used. The penetrating power of a 5 meter telescope utilizing light deflection is equivalent to that of a telescope of about 13 m. diam. without light

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L 12714-63

ACCESSION NR: AF3000293

deflection. The light deflection can also be used for determination of galactic masses or their distances, since the distance to a galaxy, the mass of the "screening" galaxy, and the angles of observation are interrelated. Original article has: 1 figure and 7 formulas. Original

ASSOCIATION: none

SUBMITTED: 12Nov62

DATE ACQ: 10Jan63

ENCL: 00

SUB CODE: AS

NO KEY NOY: 002

OTHER: 000

Card 2/2

EL'BERT, B.Ya.; KIRVEL', M.M.; YALITAREK, S.S.; KVITNITSKAYA, O.V.;
KLIMOV, Yu.N.; MININ, G.A.

Preventive immunisation against tularemia in muskrat breeding.
Zhur. mikrobiol. epid. i immun. no.10:99 O '54. (MLRA 8:1)
(TULAREMIA--PREVENTIVE INOCULATION)
(MUSKRATS--DISEASES)

86712

S/026/60/000/010/005/013
A166/AC26

21.1910 (2816, 1033, 1425)
AUTHOR: Klimov, Yu.I., (Moscow)

TITLE: The Physics of Nuclear Reactors

PERIODICAL: Priroda, 1960, No. 10, pp. 42-45

TEXT: The article deals with the significance of the achievements of the 1959 Lenin Prizewinners: A.I. Leypunskiy, O.D. Kazakhovskiy, I.I. Bondarenko and L.N. Usachev for research into the physics of fast neutron nuclear reactors; S.M. Feynberg, V.V. Goncharov, G.A. Stol'yarov, T.N. Zubarev, P.I. Khristenko, V. F. Kozlov and O.I. Lyubimtsev for their work in building the group of water-cooled research reactors BBP-2 (VVR-2), BBP-C (VVR-S) and VPT (IRT). The first group of scientists directed the construction of a series of fast neutron reactors: BP-1 (BR-1), BP-2 (BR-2), BP-3 (BR-3), BP-4 (BR-4) and BP-5 (BR-5). The BR-5, put into operation in 1958, may be regarded as the prototype of the future Soviet major atomic electric plants, designed around fast neutron reactors. The thermal output is 5,000 kw, which is at present used to produce steam for technological laboratory needs and for heating the buildings of the Fizicheskiy institut Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii pri Sovete ministrov SSSR (Physics Institute, State Committee for the Use of Atomic Energy, Card 1/4

X

86712

8/026/60/000/010/005/013
A166/A026

The Physics of Nuclear Reactors

Council of Ministers of the USSR). The second group of scientists carried out research leading to the design and construction of compact, cheap, reliable and safe water-water research reactors. Twelve such reactors have been built in the USSR, Rumania, GDR, Poland and Hungary, and one is under construction in Bulgaria. Similar reactors are being built at Minsk, Riga, Tomsk and other USSR towns. Work is nearly completed on a similar type of reactor in Egypt, and the construction of such reactors is scheduled for China, Korea and Iraq. The figure (p. 45) shows a section through the IRT reactor. There are 3 photos and 1 figure.

X

Card 2/4

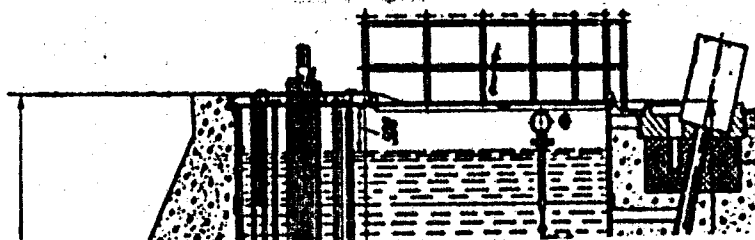
86712

S/026/60/000/010/005/013
A166/A026

Physics of Nuclear Reactors

Figure 1 (p. 45): Section through IRT reactor

Legend: 1 - water basin; 2 - active zone; 3 - concrete screening; 4 - ejector pipe for pumping through water; 5 - swinging bracket for samples under irradiation; 6 - sloping channel for discharging samples after irradiation; bottom left - device for extracting neutron rods.



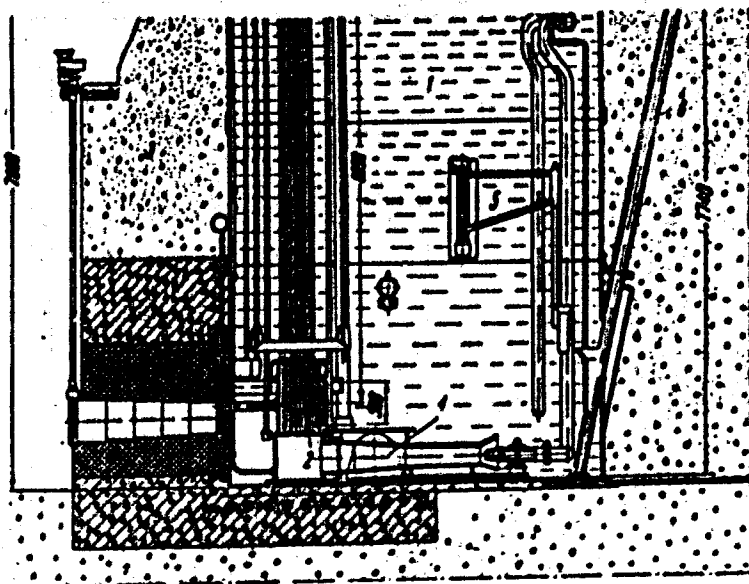
Card 3/4

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A166/A026

The Physics of Nuclear Reactors



X

Card 4/4

FAYZULIN, M.F., insh.; MATSYNIN, V.I., insh.; KLIMOV, Yu.M.

Manufacture of prestressed channel slabs. Bet. 1 slab. bet. 8
no.2:71-73 P '62. (MIRA 15:5)

(Concrete slabs)

KLIMOV, Zenon Stej novich; KONYUKHOV, Ivan Yefimovich, dots.;
ZARS, Varaidots; RYBAKOV, Pavel Il'ich

[Repair and modernization of industrial equipment] Remont i modernizatsiia oborudovaniia. Pod red. I.E. Koniukhova. Riga, Nauchno-tekhn. ob-vo mashinostroit. promyshl., 1963. 145 p. (MIRA 17:7)

. Zamestitel' predsedatelya Latvyskogo Respublikanskogo pravleniya Nauchno-tekhnicheskogo obshchestva mashinostroitel'noy promyshlennosti (for Konyukhov).

EXNEROVA, M.; KLIMOVA, A.

Results of conservative treatment of patients with glaucoma.
Cesk. oftal. 20 no.6:428-433 N '64.

1. Oční oddelení Thomayerovy nemocnice v Praze 4, (vedoucí
MUDr. M. Exnerova).

KLIMOVA, A.K.

Bulbous meadow grass, (*Poa bulbosa* L.), a new promising forage
plant. Dokl. Akad. sel'khoz. 23 no. 6:10-13 '58. (MIRA 11:7)

1. Predstavlena skomnikom I.V. Iarinyam.
(Meadow grass)

Klimova, A.I.

COUNTRY : USSR

M

CATEGORY : CULTIVATED PLANTS. Potatoes. Vegetables. Cucurbits.

ABS. JOUR. : RIZ ZHUR - BIOLOGIYA, NO. 4, 1959. No. 15668

AUTHOR : Klimova, A.I.
INSTIT : ~~All-Union Sci. Res. Inst. of Canning and Vegetable~~

TITLE : New Sorts of Cauliflower

ORIG. IUSL : Referaty nauchn. rabot. Vses. n.-i. in-t konservn. i ovoshechasush prom-sti, 1957, vyp. 4, 105-109

ABSTRACT : By the method of individual and family-group selection, the Moscow experimental-selection station of the All-Union Scientific Research Institute of the Preserving and Vegetable Drying Industry has evolved four sorts of cauliflower from two specimens of foreign origin. Moskovskaya konservnaya is an early sort, crop-yield 128 centners/hectare; Otechestvennaya is a medium early sort, 220 centners/hectare; Izmaylovskaya is a medium maturing, 168 c/h; Urozkaynaya is a medium late sort, 269 c/h. The Moskovskaya

CARD: 1/2

*Industries

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STANCO, V.I.; KLIMOVA, M.I.; ZAKHARENKO, L.I.

Complexes of decaborane with trialkyl-, triaryl-, trialkyltrithio-,
triaryltrithio-, and trialkyl-, trialkyltrithioarsenites. Izv. AN SSSR
Otd.khim.nauk no.5:919-920 Iy '62. (MIRA 15:6)

1. Institut elementoorganicheskikh sovedineniy AN SSSR.
(Boron hydrides) (Phosphorous acid) (Arsenicus acid)

ZAKHARKIN, L.I.; STANKO, V.I.; KLIMOVA, A.I.; CHAPOVSKIY, Yu.A.

Metalation of $B_{10}C_2H_{12}$ (baren) and its derivatives by
butyllithium. Izv. AN SSSR. Ser. khim. no.12:2236-2237
D '63. (MIRA 17:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

L 16184-65 EWT(m)/EPF(c)/EPR/ENP(j)/T/ERA(h) Pc-4/Pr-4/Ps-4/Pab RPI
 ACCESSION NR: AP4045839 WW/JW/RM S/0062/63/000/012/2236/2237

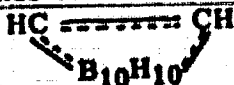
AUTHOR: Zakharkin, L. I.; Stanko, V. I.; Klimova, A. I.; Chapovskiy, Yu. A.

TITLE: The metallization of $B_{10}C_2H_{12}$ (Baren) and its derivatives with butyl lithium¹

SOURCE: AN SSSR. Izv. Seriya khimicheskaya, no. 12, 1963, 2236-2237

TOPIC TAGS: baren, baren ring, lithium derivative, monosubstitution, disubstitution, $B_{sub10}C_{sub2}H_{sub12}$, baren carboxylic acid, electron acceptor

ABSTRACT: In continuation of earlier papers on the synthesis¹ of a new class of organo-boron compounds called barens of the following structural formula,



this report concerns lithium substitution for the hydrogen at C, resulting in mono- and disubstituted Li derivatives of baren, and monosubstitutions of Li in monoalkyl or monoaryl barens. These were transformed into the corresponding baren

Card 1/2

L 16184-65

ACCESSION NR: AP4045839

carboxylic acids under the influence of H_2CO_3 and HCl. The compounds are described, reasons for the electron-acceptor properties of the bare ring given. Orig. art. has: 3 formulas

ASSOCIATION: Institut elementoorganicheskiky soedineniy Akademii nauk SSSR
(Institute of Organo-elemental Compounds of the Acad. of Sciences, SSSR)

SUBMITTED: 28Sep63

ENCL: 00

SUB CODE: GC, OC

NO REF SOV: 002

OTHER: 000

Card 2/2

ZAKHARKIN, L. I.; STANKO, V. I.; KLIMOVA, A. I.

Halogenation of "baren" and phenyl "baren." Izv. AN SSSR
Ser Khim no. 4:771 Ap '64. (MIRA 17:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

ZAKHARIN, L.I.; STANKO, V.I.; KLITVA, A.I.

Exchange reactions of $B_{10}H_{12}$ Al-type decaborane complexes.
Izv. AN SSSR Ser. khim. no. 5:917-918 1964. (MIRA 17:6)

1. Instit: elementoorganicheskikh soedineniy AN SSSR.

ZAKHARKIN, L.I.; STANKO, V.I.; BRATTSEV, V.A.; CHAPOVSKIY, Yu.A.;
KLIMOVA, A.I.; OKHLOBYSTIN, O. Yu.; PONOMARENKO, A.A. [deceased]

Synthesis and study of the properties of a new class of organoboron
compounds: $B_2C_2H_4$ ("baren") and its derivatives. Dokl. AN SSSR
155 no. 5:1119-1122 Ap '64. (MIRA 17:5)

1. Institut elementoorganicheskikh soedineniy AN SSSR.
Predstavleno akademikom A.N.Nesmeyanovym.

ACCESSION NR: AP4034541

8/0020/64/155/005/1119/1122

AUTHOR: Zakharkin, L. I.; Stenko, V. I.; Brattsev, V. A.; Chapovskiy, Yu. A.; Klimova, A. I.; Okhloby*stin, O. Yu.; Ponomarenko, A. A. (Deceased)

TITLE: Synthesis and investigation of properties of a new class of organoboron compounds: B sub 10 C sub 2 H sub 12 (barene) and its derivatives.

SOURCE: AN SSSR. Doklady*, v. 155, no. 5, 1964, 1119-1122

TOPIC TAGS: barene, synthesis, organoboron compound, decaborane acetylenic compound reaction, B sub 10 C sub 2 H sub 12, barene derivative, sigma bond formation, hydrolysis stability, thermal stability, acid solvent stability, barene hydrocarbon, barene acetate, dihydroxymethylbarene, haloalkylbarene, dihalodialkylbarene, barene ester, barene ketone, barene ether, halogenation, methanolation, oxidation, Grignard reaction, cyclization

ABSTRACT: The reaction of decaborane with different acetylenic compounds was studied in detail. It was found that in the presence of materials which form complexes of the type $B_{10}H_{12}L_2$ (L = ligand) with decaborane, a new class of compounds is formed: $B_{10}C_2H_{12}RR'$, barenes.

Card 1/3

ACCESSION NR: AP4034541

of the acetates to form alcohols; oxidation of the alcohols to acids with $\text{CrO}_3/\text{H}_2\text{SO}_4$; oxidation of hydroxymethylbarene with KMnO_4 to form barene; Grignard reaction; cyclization during reaction of a complex decaborane with the chloranhydride of phenylpropionic acid to form a barene derivative. Orig. art. has: 1 table and 12 equations.

ASSOCIATION: Institut elementoorganicheskikh soedineniy Akademii nauk SSSR
(Institute of Organometallic Compounds, Academy of Sciences, SSSR)

SUBMITTED: 08Oct63

SUB CODE: 00

NO REF SOV: 001

ENCL: 00

OTHER: 003

Cord 3/3

ZKALGAE FWT(m)/STF(c)/RFR/RWP(j)/EWA(h)/EWA(c) 10-11-1964 (10-11-1964) RFI WA/
ACCESSION NR: AP5005556 JW/RM 10-19-1964 15 002 034/0195

AUTHOR: Zakharkin, L. I.; Stanko, V. I.; Klimova, A. I.

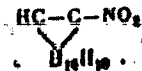
35
B

TITLE: Nitration of barene

SOURCE: Zhurnal obshchey khimii, v. 35, no. 2, 1965, 394-395

TOPIC TAGS: barene, nitrobarene, organoboron compound, nitration

ABSTRACT: Nitration of barene with 100% HNO₃ at 20C was used to obtain nitrobarene,



The melting point of the compound obtained was 100—101C. The IR spectrum indicates the position of the nitro group at one of the carbon atoms of the barene ring. Nitration of phenylbarene results in substitution in the phenyl ring. Orig. art. has: 1 formula. [BN]

ASSOCIATION: none

SUBMITTED: 23May64

ENCL: 00

SUB CODE: OC,GC

NO REF SOV: 002

OTHER: 000

ATD PRESS: 3188

Card 1/1

STANKO, V.I.; KLIMOVA, A.I.

Barenyl anion. Zhur. ob. khim. 3' no.4:753 Ap '65.

(MIRA 18:5)

STANKO, V.I.; KIIMOVA, A.I.

Reaction of lithium derivatives of baren homologs with
benzaldehyde. Zhur. ob. khim. 35 no.7:1141-1142 J1 '65.
(MIRA 18:8)

STANKO, V.I.; KOFYLOV, V.V.; KLIMOVA, A.I.

Hydrocarbons of the carborane series. Zhur. ob. khim. 35
no.8:1433-1436 Ag '65. (MIRA 18:8)

STANKO, V.I.; KLIMOVA, A.I.

Cleavage of ketones of the carborane series on aluminium oxide.
Zhur. ob. khim. 35 no.8:1503-1504 Ag '65. (MIRA 18:8)

L 22645-66 INT(m)/EXP(1)/T WM/JM/JND/PM
ACC NR: AF6009156 SOURCE CODE: UR/0079/66/036/003/0432/0436

AUTHOR: Stanko, V. I.; Klimova, A. I.

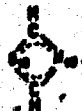
ORG: none

TITLE: The neobarene family

SOURCE: Zhurnal obshchey khimii, v. 36, no. 3, 1966, 432-436

TOPIC TAGS: organoboron compound, halogenation

ABSTRACT: The article describes a new class of organic compounds, the neocarborenes, which the authors refer to as neobarenes and represent by the symbol



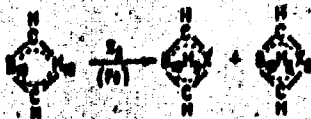
The neobarenes are very similar to barenes in properties and differ chiefly in IR spectra, lower melting points, and certain differences in chemical properties. Like barenes, the compounds neobarene, neomethylbarene, neophenylbarene, neochlorobarene, neobromobarene, and neiodobarene can be vacuum-distilled at 70-125°C. Their melting points are 10-30°C below those of the corresponding barenes. Electrophilic chlorination, bromination, and iodination of neobarenes involves the penetration of two halogen atoms into the boron ring:

Card 1/2

UDC: 546.271

L 22645-66

ACC NR: AP8009158



The IR spectra of benzene, neobenzene, 3-decachlorobenzene, and neo-3-decachlorobenzene are compared, and the preparation, isomerization, and halogenation reactions of some neobenzenes are described. Orig. art. has: 1 figure, 1 table.

SUB CODE: 07/

SUBM DATE: 20Jul64/

ORIG REF: 000/

OTH REF: 001

Card 2/2 AW

L 08657-67 EWP(j)/EWT(m)/EWP(e)/EWP(t)/ETI IJP(c) RM/W/JW/JND/JD
ACC NR: AP6013742 SOURCE CODE: UR/0192/65/006/006/0923/0925

AUTHOR: Struchkov, Yu. T.; Stanko, V. I.; Klimova, A. I.; Kon'kova, G. S. 49

ORG: Institute of Elementoorganic Compounds, AN SSSR (Institut elementoorganicheskikh soyedineniy AN SSSR)

TITLE: X-ray diffraction of some derivatives of borane and neoborane

SOURCE: Zhurnal strukturnoy khimii, v. 6, no.6, 1965, 923-925

TOPIC TAGS: inorganic synthesis, borane, crystal structure, x ray diffraction

ABSTRACT: The crystalline structure of a series of boranes and neoboranes was studied by X-ray diffraction. The cell parameters, density, spatial configuration, and crystal forms were tabulated for B-dichloroborane, B-bromoborane, B-iodoborane, B-diiodoborane, B-triiodoborane, B-dichloro-C-methylborane, B-trichloro-C-methylborane, B-dibromo-C-methylborane, I-bromo-2-borenylethane, C-(p-bromophenyl)borane, bis(C-vinylborenyl)mercury, C-vinylborenyl methyl mercury, B-iodoneoborane, B-diiodoneoborane, and B-deca-chloroneoborane. The authors express their gratitude to R. L. Avoyan for assistance in the X-ray study and to V. I. Bregadza for preparation of the two mercury compounds. Orig. art. has: 1 table.

SUB CODE: 07/ SUBM DATE: 01Jul65/ ORIG REF: 001

UDC: 548.737

Card 1/1

ACC NR: AP7003330

SOURCE CODE: UR/0079/66/036/012/2219/2219

AUTHOR: Stanko, V. I.; Klimova, A. I.

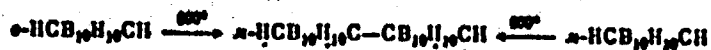
ORG: none

TITLE: m-Dibarenyl

SOURCE: Zhurnal obshchey khimii, v. 36, no. 12, 1966, 2219

TOPIC TAGS: carborane, isomerization, carborane condensation, boron compound

ABSTRACT: Heating of o-carborane to 580—600C for 12 hr resulted not only in the isomerization of o-carborane to m-carborane, but also in the simultaneous condensation of m-carborane nuclei to form "m-dibarenyl" (mp, 216—218C). In addition to m-dibarenyl, products with 3, 4 or more barenyl nuclei were formed. m-Dibarenyl was also formed on heating m-carborane under similar conditions.



The apparatus, experimental procedure, and IR spectra of m-dibarenyl

Card 1/2

UDC: 546.271

ACC NR: AP7003330

are briefly described in the source.

[W. A. 77]
[BO]

SUB CODE: 07/ SUBM DATE: 01Aug66/

Card 2/2

KLIMOVA, A.K.

Seasonal dynamics of group composition and abundance of phytoplankton in Volgograd Reservoir during first years of its existence. Nauch. dokl. vys. shkoly; biol. nauki no.1:98-102 '66. (MIRA 19:1)

1. Rekomendovana kafedroy obshchey biologii Saratovskogo meditsinskogo instituta. Submitted September 15, 1964.

KLINOVA, A.K.

Cultivation of the bulbous meadow grass (*Poa bulbosa* L.) in the
southeast. Uch. zap. Sar. un. 64:101-104 '59. (MIRA 13:9)
(Russia, Southern—Meadow grass)

KLIMOVA, A.K.

Use of plasmon and milk curd in infant nutrition. *Pediatrics* 38
no. 7:16-19 J1 '60. (MIRA 14:1)
(INFANTS—NUTRITION)

KLIMOVA, A.K.

Phytoplankton of Volgograd Reservoir during the first years after
the regulation of the streamflow. Nauch. dokl. vys. shkoly; biol.
nauki no.1:99-102 '64. (MIRA 17:4)

1. Rekomendovana kafedroy obshchey biologii Saratovskogo meditsinskogo
instituta.

RODIONOVA, L.V.; ~~KLIMOVA, A.P.~~; INGBERMAN, A.B. [deceased]; BELYANIKOVA,
Z.P.; KITSENKO, G.P., spetsred.; BUKINA, L.N., vedushchiy red.

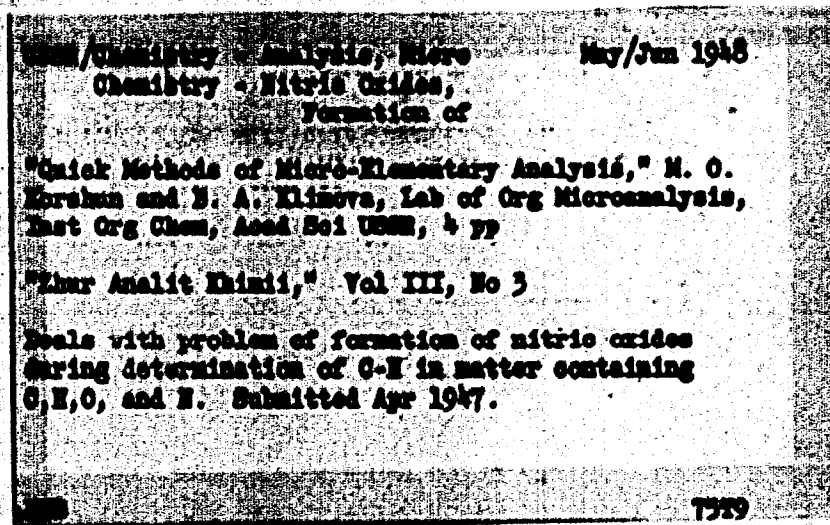
[Shopless organization of the management at the Marat Confectionery
Plant in Moscow] Bestsekhovskia struktura upravleniia na moskovskoi
konditerskoi fabrike im. Marata. Moskva, Gos.nauchno-issl.in-t
nauchn. i tekhn. informatsii, 1959. 31 p. (MIRA 13:6)
(Moscow--Confectionery)

1. PRAVDIN, I. F., KLIMOVA, A.V., Prof.
2. USSR (600)
4. Ladoga Lake Region - Fisheries
7. Importance for commercial fishing waters of the area bordering Lake Ladoga on the east. Nauch biul Len un. No. 29 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

KLINOVA, B. A.

PA 75T9



KLEMENT, Miloslav, MUDr.; Na Statistice Spolupracovaly: TENKOVA, B.;
VALASKOVA, M.; KLIMOVA, B.

Hidden fractures of the fingers and wrist. Acta chir. orthop.
traum. cech. 23 no.2:61-64 Feb 56.

1. Z Vyskumneho ustavu Traumatologickeho v Brne, reditel prof.
MUDr. Vladimir Novak.

(FINGERS, fract.
hidden, statist. (Cs))
(WRIST, fract.

same
(FRACTURES,
fingers & wrist, hidden, statist. (Cs))

KLIMOVA, B.N.

[Poultry house for 2500 chicks; brick walls] Ptichnik na 2500 tsypliat;
steny kirpichnye. Proekt no.0561-V. Moskva, 1955. 28 p., 12 plans.

1.Russia (1923- U.S.S.R.) Ministerstvo gorodskogo i sel'skogo stroi-
tel'stva.

(Poultry houses and equipment)

KLIMOVA, G.D., red. izd-va; SHERSTNEVA, N.V., tekhn. red.

[Technical specifications ChMTU-TaNIICHM 426-61 for seven-wire steel strands for reinforcing prestressed concrete elements] Tekhnicheskie uslovia na semiprovolochnye stal'nye priadi dlia armirovaniia predvaritel'no napriazhennykh zhelezobetonnykh konstruktsii (ChMTU-TaNIICHM 426-61). Izd. 2., dop. Moskva, Gosstroizdat, 1962. 12 p. (MIRA 15:7)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut betona i zhelezobetona, Perovo.
(Concrete reinforcement) (Prestressed concrete)

YERUKHIMOVICH, P.L., kand. tekhn.nauk; MADATYAN, S.A., inzh.;
KLIMOVA, G.D., red.; SHEVCHENKO, T.M., tekhn. red.

[Instructions on the techniques of prestressing rod, wire,
and strand reinforcement of reinforced-concrete elements by
electrothermal and electro-mechanical methods]Instruktsiia
po tekhnologii redvaritel'nogo napriazheniia stazhnovoi,
provodimoi i priadevoi armatury zhelezobetonnykh kon-
struktsii elektrotornicheskim i elektromekhanicheskim spo-
sobami. Moskva, Gosstroizdat, 1962. 115 p. (MIRA 15:8)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut be-
tona i zhelezobetona, Perovo.
(Concrete reinforcement)

KOVALEV, S.A., inzh., red.; CHERNIN, L.A., inzh., red.; POGORELYY,
P.P., inzh., red.; KLIMOVA, G.D., red.

[Construction specifications and regulations] Stroitel'nye normy
i pravila. Moskva, Gosstroizdat. Pt.I. Sec.G. ch.8. [Gas sup-
ply; indoor installations. Materials, equipment, fixtures, and
parts] Gasosnabzhenie; vnutrennie ustroistva. Materialy, obo-
rudovanie, armatura i detali. (SNiP I-G. 8-62). 1963. 16 p.
(MIRA 17:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam
stroitel'stva. 2. Gosstroy SSSR (for Chernin). 3. Institut
Mosgazproyekt (for Pogorelyy).

MARKELOV, V.V. [deceased]; EUSAKOVA, I.A.; KLINOVA, G.P., ed.

[Collection of norms and rates on electric equipment installation operations in rural areas] Sbornik norm i ratsenok na elektromontazhnye raboty v sel'skoi mestnosti. Moskva, Gosstroizdat, 1963. 102 p.

(MIRA 48:1)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

KLIMOVA, O.D., red.iad-va; SHEVCHENKO, T.N., tekhn. red.

[Instruction for the design of steel forms] Instruktsiia
po raschetu stal'nykh form. Moskva, Gosstroizdat, 1963.
131 p. (MIRA 16:12)

1. Moscow. Nauchno-issledovatel'skiy institut betona i zhe-
lezobetona.

(Reinforced concrete construction)

L 57510-65 EWG(j)/EWT(m)/ENP(w)/EPF(c)/EWA(d)/EPR/T/ENP(t)/ENP(b)/EWA(c) Pr-4/
ACCESSION NR: AP5013154 P8-4 IJP(c) JD/JG UR/0129/65/000/005/0029/0032
669.295:669.787

AUTHOR: Borisova, Ye. A.; Klimova, G. S.

45
44
B

TITLE: The effect of impurities and structure on the linear expansion coefficient of commercial Ti

SOURCE: Metallovedeniye i termalcheskaya obrabotka metallov, no. 5, 1965, 29-32

TOPIC TAGS: titanium, metal physical property, coefficient of thermal expansion

ABSTRACT: Ingots were cast from commercially pure ^{18 21}Ti and alloyed with ^{21 27 27}Fe, Cr, C and O. The linear expansion coefficient, α_l , was then determined by a special dilatometer. No change in α_l was noted within the accuracy of the experiment, when alloying elements, including C and O₂ were added. The measurements were made over a wide range of temperatures (20-800°C). Changes in grain size were studied for annealing temperatures at and below 800°C. Both very large and very small grain sizes were obtained by varying the time of annealing. The large grains had the greatest effect in increasing α_l in the experimental temperature range. Small grain

Card 1/2

L 57510-65

ACCESSION NR: AP5013154

size thus results in greater stabilization of α_2 in Ti. Various treatments in the α and β regions were followed by microstructural analysis and α_2 determinations. However, this resulted in a coarse grain structure, and the influences noted above took effect. The results do show some reduction in the expansion coefficient due to the microstructure. Finally, the authors consider the effects of cold deformation (26-53%) on the value of α_2 . In the temperature range of 20-100°C, α_2 was raised from 4.29×10^{-6} to 10.2×10^{-6} by cold deformation to 53%. Orig. art. has: 3 figures, 3 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NO REF SOV: 000

OTHER: 000

Card 2/2

BULATOVA, Z.I.; VOYTSHEL', Z.A.; GOBOVETS, A.N.; IVANOVA, Ye.A.; KAZ'MINA,
T.A.; KISEL'MAN, B.N.; KLIMKO, S.A.; KLIMOVA, I.G.; KOSYNEVA, V.F.;
KORNEVA, F.R.; KOSTITSINA, R.P.; KRUGLOVA, Z.M.; STRIZHOVA, A.I.;
MARKOVA, L.G.; TARASOVA, A.S.; USHAKOVA, M.V.; FILIPPOVA, Ye.A.,
ved.red.; TROPIMOV, A.V., tekhn.red.

[Mesozoic and Cenozoic stratigraphy of the West Siberian Lowland]
Stratigrafiia mesosoiia i kainosoiia Zapadno-Sibirakoi nizmennosti.
Moskva, Gos.nauchno-tekhn.isd-vo neft. i gorno-toplivnoi lit-ry,
1957. 147 p. (MIRA 12:2)

1. Gosudarstvennyy soyuznyy Zapadno-Sibirakiy nefterasvedochnyy
trest.

(Siberia, Western--Geology, Stratigraphic)

KLIMOVA, I.O.; KORNEVA, P.R.

Mesozoic ammonites and pelocypods from the Yeluguy key borehole
(Western Siberia). Trudy SNIIGGIMS no.2:5-18 '59. (MIRA 12:11)
(Yeluguy Valley—Ammonites)
(Yeluguy Valley—Lamellibranchiata, Fossil)

KLIMOVA, I.G.; TESLENKO, Yu.V.

Traces of the Bajocian and Callovian transgression in the West
Siberian Lowland. Dokl.AN SSSR 132 no.6:1385-1387 Jo '60.
(MIRA 13:6)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii,
geofiziki i mineral'nogo syr'ya. Predstavleno akademikom A.L.
Yanshinym.
(Siberia, Western—Geology, Stratigraphic)

KLIMOVA, I.G.

Valanginian ammonites in the West Siberian Plain. Trudy SNIIGIMS
no.8:163-175 '60. (MIRA 15:9)
(West Siberian Plain--Ammonoidea)

KLIMOVA, I.G.

Upper Jurassic ammonites in the West Siberian Plain.
SWIGGINS no.15:13-27 '61.

(West Siberian Plain--Ammonoidea)

Trudy
(MIRA 15:9)

KLIMOVA, I.G.; ZAYTSEVA, T.F.

First finds of ammonites *Speetoniceras* in Western Siberia. Trudy
SNIIGGIMS no.23:108-113 '62. (MIRA 16:9)
(West Siberian Plain--Ammonoidea)

BULYNNIKOVA, S.P.; KLIMOVA, I.G.

Biostratigraphy of Valanginian and Lower Hauterivian marine
sediments in the West Siberian Plain. Geol. i geofiz. no.1:
30-42 '65. (MIRA 18:6)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii,
geofiziki i mineral'nogo syr'ya, Novosibirsk.

KLIMOVA, I.G.; ZAYTSEVA, T.F.

Zonal differentiation of Kimmuridgian sediments in the West
Siberian Plain. Dokl. AN SSSR 165 no.4:898-900 D '65.

(MIRA 18:12)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii,
geofiziki i mineral'nogo syr'ya. Submitted May 22, 1965.

DOMARADSKIY, I.V.; KLIMOVA, I.M.; PEREVALOVA, L.G.

Influence of plague microbe toxin on transamination in the liver.
Vop. med. khim. 6 no.3;288-290 My-Je '60. (MIRA 14:3)

1. Gosudarstvennyy nauchno-issledovatel'skiy protivochumnyy institut
Sibiri i Dal'nego Vostoka, Irkutsk. (TOXINS AND ANTITOXINS)
(PASTEURILLA PESTIS) (LIVER)

DOMARADSKIY, I.V.; KLIMOVA, I.M.; PEREVALOVA, L.G.

Effect of the plague microbe toxin on phosphorus metabolism in the liver. Vop. med. khim. 7 no.2:145-149. M-Apr '61. (MIRA 14:6)

1. The State Anti-Plague Research Institute of Siberia and the Far East, Irkutsk.

(PHOSPHORUS METABOLISM)
(TOXINS AND ANTITOXINS)

(LIVER)
(PASTEURELLA PESTIS)

DOMARADSKIY, I.V.; KLIMOVA, I.M.; TOKAREVA, A.A.

Effect of plague microbe toxin on blood proteins and the
incorporation of methionine-S³⁵ into tissue proteins. Vop.
med. khim. 7 no.6:614-619 N-D '61. (MIRA 15:3)

1. State Research Antiplague Institute for Siberia and Far
East, Irkutsk.

(PASTEURILLA PESTIS)
(BLOOD PROTEINS)

(TOXINS AND ANTITOXINS)
(METHIONINE)

DOMARADSKIY, I.V.; KLIMOVA, I.M.

Effect of plague microbe toxin on diamine oxidase. Biul. eksp.
biol. i med. 53 no.5:69-72 My '62. (MIRA 15:7)

1. Iz Irkutskogo nauchno-issledovatel'skogo protivochumnogo
instituta Sibiri i Dal'nego Vostoka (dir. - prof. I.V.
Domaradskiy). Predstavlena deystvitel'nym chlenom AMN SSSR
N.N. Zhukovym-Vereshnikovym.

(TOXINS AND ANTITOXINS) (PASTEURILLA PESTIS)
(DIAMINE OXIDASE)

KLIMOVA, I.M.

Effect of the plague microbe toxin on liver phosphorylase.

Dokl. Irk. gos. nauch.-issl. protivochum. inst. no.5:76-79

'63

(MIRA 18:1)

DOMARADSKIY, I.V.; KLIMOVA, I.M.

Antialdolase activity of the antiplague serum and the contra-
distinction of the Pasteurella pestis aldolase to its toxin.
Biul. eksp. biol. i med. 57 no.4:84-87 Ap '64.

(MIRA 18:3)

1. Irkutskiy nauchno-issledovatel'skiy protivochumnyy institut
Sibiri i Dal'nego Vostoka (dir. - prof. I.V. Domaradskiy). Sub-
mitted January 23, 1963.

KLIMEVA, I.H.

Activity of α -amylase and glucose-6-phosphatase of the liver
and the sugar level in the blood in animals with plague
intoxication. *Biul. eksp. biol. i med.* 60 no.8:61-64 Ag '65.
(MIRA 18:9)

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Directed by Prof. I. V. Domaradskiy (Irkutskiy nauchno-issledovatel'skiy protivochumnyy institut Sibiri i Dal'nego Vostoka)TITLE: Activity of alpha-amylase and glucose-6-phosphatase of the liver and the blood sugar content in animals with plague intoxicationSOURCE: Bulleten' eksperimental'noy biologii i meditsiny, v. 60, no. 8, 1965, 61-64

TOPIC TAGS: enzyme, liver, toxicology, blood, carbohydrate, mouse, rat

ABSTRACT: The experiments described in this article were carried out to determine the effect of P. pestis toxin on the activity of hepatic alpha-amylase and glucose-6-phosphatase; to determine also the blood sugar during the various periods of plague intoxication; and to study at the same time the dynamics of the development of hypoglycemia in the latter stages of the disease. Albino mice 18-20 grams and albino rats 160-200 grams in weight were used in the experiments. A preparation of fraction II obtained by the Baker method from P. pestis (the LD₅₀ for albino mice is 1.8 and for albino rats, 8 micrograms). The toxin was administered to the animals intraperitoneally in doses of one LD₅₀ to the mice, and 10 LD₅₀ to the rats. The mice were sacrificed 17 hours after administration of the plague toxin, and the rats — within 2 hours after administration of the toxin. The liver was

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excised, reduced to a powder, and placed in chilled physiological solution. Tests, the Rutter-Brossmer for amylase and the Dost and Ostrovskiy for glucose-6-phosphatase, established that plague toxin had no effect on the activity of hepatic alpha-amylase and glucose-6-phosphatase in either the mice or the rats. The blood sugar at various periods of plague intoxication was studied in rats, which were for this purpose divided into three groups. The first two groups were administered the plague toxin in a dose of LD₅₀. Blood was taken from these animals every 30 minutes for a period of 2 hours and examined for its sugar content. At the end of this period the animals of the second and third (control) groups were intraperitoneally administered adrenalin in a dose of 50 micrograms. The blood content of sugar was determined within 10, 20, 30, 60, and 120 minutes after the administration of adrenalin. It was found that the blood sugar in the rats remained unchanged during the early stages of plague intoxication; in later stages and in the agonal period however, hypoglycemia developed, due probably to the exhaustion of sugar reserves in the liver. This paper was presented by N. N. Zhukov-Verezhnikov, Active Member, ANU SSSR. Orig. art. has: 2 figures and 1 table. [JPES]

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