

S/773/59/000/000/001/001
I015/I215

Main trends in the development....

for new pharmacological and chemotherapeutic means; 7) histogenesis, embryogenesis and regeneration; 8) radiation sickness. The trends for the coming 7 years as indicated at the XXI Party Congress include as well investigations on the evolution of inhibitory and excitatory processes, conditioned reflexes, the nervous mechanisms of humoral regulation processes, and the effect of various physical factors on the organism (penetrating radiation and ultrasonics). These studies aim at the elaboration of new methods, the selection of adequate indices and for the interpretation of results (instead of the study of conditioned motor reflexes as hitherto). Studies on comparative pathology and the evolution of organic pathology of CNS will be carried out on: a) coordination between the cerebellum, vestibular system and cerebral cortex; b) the evolution of defence mechanisms, particularly the organic and functional com-

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Main trends in the development...

pensation of nervous disorders. The morphological aspect will be studied intensely, and histochemical and autoradiographic methods will be applied for metabolic studies at the cell level. Improvements in the administration and organisation of the Institute in order to obtain greater efficiency in research projects and scientific results, is another aspect of the planning. A special Plenum called by the TsK KPSS will discuss the problems of modernisation, mechanisation and automation in industry, improvement of the quality of industrial products and cutting down of overhead expenses. These problems being for scientists, and the Institute will participate in these efforts -- mainly in the elaboration of modern recording methods and rapid analysis techniques. ✓

Card 3/3

27.1220

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S/791/59/000/000/001/001
A061/A126

AUTHOR: Biryukov, D.A.

TITLE: On the localization of the effects of penetrating radiation on the nervous system

SOURCE: Nekotoryye voprosy sovremennoy fiziologii. Ed. by D.A. Biryukov. Leningrad, Medgiz, 1959, 118 - 122

TEXT: The present paper is based on a lecture given at the Second UNO Conference on the Peaceful Uses of Atomic Energy, Geneva, 1958. The report includes observations made on brains of various animals irradiated by different methods, and results allowing conclusions as to the differing sensitiveness of the various cerebral levels. Alimentary conditioned motor reflexes in chickens and pigeons were found to persist even after a relatively long protracted penetrating radiation. At the same time, however, considerable alterations were observed in the condition of stem centers. The optogenic catalepsy of chickens, which is described, is caused by an inhibition which partly develops in the upper cerebral levels, but chiefly in the brain stem. This inhibition is removed by X-rays,

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On the localization of the effects of

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whereupon the chickens are left in a highly excited state. The effect of aminazine on radiative injuries was examined on 7 chickens. 0.001 g of aminazine per kg of weight was introduced into the crop and found to remove cataleptic inhibition much like X-rays. Since the more striking effects of penetrating radiation under the experimental conditions considered are localized at lower cerebral levels (subcortex in higher animals), the functions of cortex or fore brain are impaired to a lesser degree and are compensated sooner. There are 2 figures.

ASSOCIATION: Institut eksperimental'noy meditsiny AMN SSSR, Leningrad (Institute of Experimental Medicine, AMS USSR, Leningrad)

Card 2/2

Biryukov, D.A.

SOV/30-59-4-36/51

17(1)

AUTHOR:

Razumov, S. A., Candidate of Biological Sciences

TITLE:

Problems of Ecological Physiology (Problemy ekologicheskoy fiziologii)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1959, Nr 4, pp 121-123 (USSR)

ABSTRACT:

The All-union Conference held by the Institut fiziologii im. I. P. Pavlova (Physiological Institute imeni I. P. Pavlov) in Leningrad between January 12th and January 17th dealt with these problems. Altogether 58 reports were delivered, e.g.: A. D. Slonim spoke about "Essential Trends of Research of the Ecological-physiological Specialization in Mammals"; D. A. Biryukov on "Ecological Factors in Animal Physiology"; I. D. Strel'nikov on "the Ecological Heat Balance in Several Invertebrates (Insects) and Vertebrates (Reptiles and Mammals)"; I. A. Arshavskiy spoke about "the Comparative Ontogenetic Characteristics of Several Physiological Features in Rabbits and Hares in Connection With Particularities of Their Ecology"; Ye. M. Kreps, N. A. Verzhbinskaya and A. A. Smirnov reported on "Physiological Characteristics of Various Hemocyanins of Species of Crabs in Dependence of Their Conditions of Life"; Ye. I. Orlov spoke about

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Problems of Ecological Physiology

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"the Behavior and Survival of "iksodovyye kleshchi" (mites) in the Case of Irrigation and Flooding of the Irrigated Regions"; N. P. Naumov spoke about "the Internal Structure of Higher Vertebrates and Some Problems of Their Investigation by Ecological-physiological Methods"; I. Ya. Polyakov dealt with "the Morpho-physiological Variability of the Population of Rodents Under the Effect of Ecological Conditions"; N. I. Kalabukhov, N. A. Morkiyevich and E. A. Petrosyan spoke about "Several Ecological-physiological Characteristics of Various Species and Geographical Populations of a Type of Sandstone"; M. V. Kirzon, N. P. Naumov, N. M. Dukel'skaya and L. V. Borisov reported on "the Ecological and Physiological Trend of the Investigation of the Effect of Rat Poisons". In their resolution the members of the Conference underlined the great importance of ecological physiology and indicated the most important ways of further research in this field. Special attention was paid to the increased research work carried out by ecologists, zoologists, physiologists and biochemists.

Card 2/2

BIRYUKOV, D.A., prof.

Instincts. Zdorov'e 5 no.9:2-3 S '59.

(MIRA 12:11)

1. Chlen-korrespondent AMN SSSR.
(INSTINCT)

BIRYUKOV, D.A.

NESTEROV, A.I. (Moskva); TUSHINSKIY, M.D. (Leningrad); GOREV, N.N. (Kiyev);
DOLGO-SABUROV, B.A. (Leningrad); ZAKUSOV, V.V. (Moskva); MUROMTSEV, S.H.
(Moskva); CHUMAKOV, M.P. (Moskva); ZHDANOV, V.M., prof. (Moskva);
MEGOVSKIY, V.A., prof. (Moskva); BIRYUKOV, D.A. (Leningrad);
LITVINOV, N.N., prof. (Moskva); SUKOLOVA-PONOMAREVA, O.D. (Moskva);
KUPALOV, P.S. (Leningrad); BATKIS, G.A. (Moskva); KOSYAKOV, P.N.,
prof. (Moskva); SHMELEV, N.A. (Moskva); BUSALOV, A.A., prof.
(Moskva); MOLCHANOVA, O.P. (Moskva); STRASHUN, I.D.; BLOKHIN, N.N.
(Moskva); PREOBRAZHENSKIY, B.S. (Moskva); VISHNEVSKIY, A.A. (Moskva);
CHERNIGOVSKIY, V.N. (Moskva); PAVLOVSKIY, Ye.N., akademik (Leningrad);
MYASHNIKOV, A.L. (Moskva); VINOGRADOV, V.N. (Moskva); MAYEVSKIY, V.I.;
DAVYDOVSKIY, I.V. (Moskva); IOFFE, V.I. (Moskva); KURASHOV, S.V.;
ANOKHIN, P.K. (Moskva); BOGDANOV, I.D. (Kiyev); ZIL'BER, L.A.
(Moskva); BRONOVITSKIY, A.Yu.; CHERBOTAREV, D.F., prof.

Debate on the address by Professor V.V. Parin, academician
secretary of the Academy of Medical Sciences of the U.S.S.R.;
abridged comments by members of the Academy of Medicine and
the directors of institutes. Vest.AMN SSSR 14 no.8:19-31
'59. (MIRA 12:11)

1. Deystvitel'nyye chleny AMN SSSR (for Nesterov, Tushinskiy,
Gorev, Zakusov, Kupalov, Strashun, Preobrazhenskiy, Vishnevskiy,
Chernigovskiy, Myasnikov, Vinogradov, Anokhin, Zil'ber).
(Continued on next card)

NESTEROV, A.I.---(continued) Card 2.

2. Chleny-korrespondenty AMN SSSR (for Dolgo-Saburov, Chumakov, Zhdanov, Biryukov, Sokolova-Ponomareva, Batkis, Shmelev, Molchanova, Blokhin, Ioffe, Bogdanov). 3. Direktor Instituta gerontologii AMN SSSR (for Gorev). 4. Direktor Instituta farmakologii i khimioterapii AMN SSSR (for Zakusov). 5. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (VASKhNIL); direktor Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR (for Muromtsev). 6. Direktor Instituta po izucheniyu poliomiyezita AMN SSSR (for Chumakov). 7. Direktor Instituta eksperimental'noy meditsiny AMN SSSR (for Biryukov). 8. Direktor Instituta obshchey i kommunal'noy gigiyeny AMN SSSR (for Litvinov). 9. Direktor Instituta pediatrii AMN SSSR (for Sokolova-Ponomareva). 10. Direktor Instituta virusologii AMN SSSR (for Kosyakov). 11. Direktor Instituta tuberkuleza AMN SSSR (Shmelev). 12. Direktor Instituta grudnoy khirurgii AMN SSSR (for Busalov). 13. Direktor Instituta pitaniya AMN SSSR (for Molchanova). 14. Direktor Instituta eksperimental'noy i klinicheskoy onkologii AMN SSSR (for Blokhin). 15. Direktor Instituta khirurgii AMN SSSR (for Vishnevskiy).

NESTEROV, A.I.--- (continued) Card 3.

16. Direktor Instituta fiziologii AMN SSSR (for Chernigovskiy).
17. Direktor Instituta terapii AMN SSSR (for Myasnikov). 18. Direktor Gosudarstvennogo izdatel'stva meditsinskoy literatury (for Mayevskiy). 19. Vitse-prezident AMN SSSR (for Davydovskiy).
20. Ministr zdravookhraneniya SSSR (for Kurashov). 21. Direktor Instituta infektionnykh bolezney AMN SSSR (for Bogdanov).
22. Chlen-korrespondent AN BSSR: predsedatel' Uchenogo meditsinskogo soveta Ministerstva zdravookhraneniya BSSR (for Bronovitskiy). 23. Predsedatel' Uchenogo meditsinskogo soveta Ministerstva zdravookhraneniya USSR (for Chebotarev).

(MEDICINE)

BIRYUKOV, D.A. (Leningrad)

Immediate tasks in planning physiological research. *Fiziol.zhur.*
45 no.1:3-6 Ja '59. (MIRA 12:2)

(PHYSIOLOGY,
in Russia, organis. & planning (Rus))

BIRYUKOV, D.A.

Principal physiological problems according to decisions of the 21th
Congress of the CPSU. Fisiol. zhur. 45 no.5:513-517 My '59.

(PHYSIOLOGY, (MIRA 12:7)

in Russia, 7-year plan (Rus))

BIRYUKOV, D.A.

History of physiology in the White Russian S.S.R. *Fiziol..*
zhur. 45 no.6:736-738 Je '59. (MIRA 12:8)
(WHITE RUSSIA--PHYSIOLOGY)

BIRYUKOV, D.A. (Leningrad)

New tasks and future prospects in the field of physiological sciences
as seen in the light of the decisions of the June Plenum of the Cen-
tral Committee of the CPSU. Fiziol.zhur. 45 no.10:1173-1175 0 '59.
(PHYSIOLOGY) (MIRA 13:2)

BIRYUKOV, D.A.

Some of the principal problems discussed at the Ninth All-Union
Congress of Physiologists, Biochemists and Pharmacologists.
Fiziol.sbur. 45 no.11:1396-1397 N '59. (MIRA 13:5)
(PHYSIOLOGY--CONGRESSSES)

BIRYUKOV, D.A.

Evolution of functions of the central nervous system. *Fiziol.*
zhur. 45 no.11:1399-1401 N '59. (MIRA 13:5)
(CENTRAL NERVOUS SYSTEM *physiol.*)

BIRYUKOV, D.A.

Immortal teaching of the great naturalist-materialist. Fisiol.shur.
45 no.12:1314-1315 D '59. (MIRA 13:4)
(BIOGRAPHIES)

BIRYUKOV, Dmitriy Andreyevich; MIKHAYLOV, V.P., red.; RULEVA, M.S.,
tekhn.red.

[Ecological physiology of the nervous activity; some problems
on the biological principles of the theory of medicine] Ekolo-
gicheskaya fiziologiya nervnoi deiatel'nosti; nekotorye voprosy
biologicheskikh osnov teorii meditsiny. Leningrad, Gos.izd-vo
med.lit-ry Medgiz, Leningr.otd., 1960. 142 p.

(MIRA 13:12)

(NERVOUS SYSTEM)

BIRYUKOV, D.A.

The undimining ideas of Leninism are a sharp weapon in the struggle for materialism in the natural sciences; on the 90th birthday of V.I. Lenin. Fiziol. zhur. 46 no. 4:380-381 Ap '60. (MIRA 13:10)

(SCIENCE—PHILOSOPHY)

BIRYUKOV, D.A. (Leningrad); VEDYAYEV, F.P. (Leningrad)

Some problems in the physiology of the nervous system in the
Czechoslovakian People's Republic. Fiziol. Zhur. 46 no. 5:636-
641 My '60. (MIRA 13:12)

(CZECHOSLOVAKIA—NERVOUS SYSTEM)

BIRYUKOV, D.A., prof.

Wide horizons of science. Zdorov'e 7 no.10:3 0 '61. (MIRA 14:10)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR.
(PUBLIC HEALTH)

BIRYUKOV, D.A.

Pages from the history of the Institute of Experimental Medicine of
the Academy of Medical Sciences of the U.S.S.R. Vest. AMN SSSR 16
no.11:3-12 '61. (MIRA 15:2)
(MEDICINE, EXPERIMENTAL)

BIRYUKOV, D.A.

Putting science into service for the building of communism.
Fiziol. zhur. 47 no.10:I-IV 0 '61. (MIRA 15:1)
(COMMUNISM) (PHYSIOLOGY)

BIRYUKOV, D.A. (Leningrad)

Problems in the ecological physiology of man. Fiziol. zhur. 47 no.10:
1319-1328 0 '62. (MIRA 15:1)
(HUMAN ECOLOGY) (PHYSIOLOGY)

BARYSHNIKOV, I.A.; BIRYUKOV, D.A.; ZIMKIN, N.V.

Twenty-second Congresses of the CPSU and some important problems
in physiology. *Fiziol. zhur.* 48 no.1:I-VIII Ja '62. (MIRA 15:2)
(COMMUNISM) (PHYSIOLOGY)

BIKUKOV, D.A.; KORNEVA, Ye.A.; SHLYAFER, T.P.; YAKOVLEVA, M.I.

Formation of reflex regulation of the activity of the heart and
respiration in animals in phylogenesis and ontogenesis. Fiziol.
zhur. 48 no.1:55-63 Ja '62. (MIRA 15:2)

1. Otdel sravnitel'noy fiziologii i patologii Instituta eksperimental'noy
meditsiny AMN SSSR, Leningrad.
(HEART) (RESPIRATION) (REFLEXES)

S/026/62/000/009/003/006
D037/D113

AUTHOR: Biryukov, D.A., Member of the Academy of Medical Sciences USSR

TITLE: The evolution of the higher nervous activity and the psyche

PERIODICAL: Priroda, ⁵no. 9, 1962, 44-49

TEXT: This popular article contains data on the development of the nervous system and the various stages of development of the higher nervous activity: excitability, sensitivity, instinct, emotion and psyche. Polish scientist Professor J. Dembowski and Soviet scientists have established in experiments on protozoa (paramecium) that acquired reactions exist in all living beings although they are manifested differently at various levels. The statement by American physiologists Shuradger and Culler that conditioned reflexes can be elaborated in the spinal cord has been refuted by Soviet scientists since, according to Pavlov's theory, the conditioned reflex is the highest form of adaption in evolutionary development. The author concedes that there no psychic function exists without a physiological process. He concludes that physiological processes in a thinking brain and the thinking process are not two

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The evolution of the higher nervous activity

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D037/D113

parallel processes but only one process, the internal state of which is the state of consciousness.

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BIRJUKOV, D. A. [Birjukov, D.A.]

Unresolved problems in the evolution of inhibition. Cas. lek. cesk.
101 no. 24/25:747-749 22 Je '62.

1. Institut experimentalni mediciny Akademie medicinskych nauk SSSR,
Leningrad, reditel akademik D. A. Birjukov.

(CENTRAL NERVOUS SYSTEM physiolo)
(REFLEX CONDITIONED)

BIRYUKOV, Dmitrii Andreyevich, prof., red.; TOMILINA, T.N., red.
LEBEDEVA, G.T., tekhn. red.

[Pharmacology of neurotropic agents; symposium dedicated to the 70th anniversary of Professor S.V.Anichkov, Member of the Academy of Medical Sciences of the U.S.S.R.] Farmakologiya neirotropnykh sredstv; sbornik, posviashchenyi 70-letiyu deystvitel'nogo chlena AMN SSSR professora S.V.Anichkova. Pod red. D.A.Biriukova. Leningrad, Medgiz, 1963. 254 p.

(MIRA 17:1)

1. Akademiya meditsinskikh nauk SSSR, Moscow. 2. Deystvitel'-nyy chlen AMN SSSR (for Biryukov).



BIRYUKOV, D.A., prof.; SMORODINTSEV, A.A., prof.; SELIVANOV, A.A.,
kand. med. nauk, starshiy nauchnyy sotrudnik; IL'IN, G.I., kand.
med. nauk; PIGAREVSKIY, V.Ye., doktor med. nauk; GOKHLERNER, G.,
vrach

Grippe. Nauka i zhizn' 30 no.4:72-78 Ap '63. (MIRA 16:7)

1. Direktor Instituta eksperimental'noy meditsiny AMN SSSR,
Leningrad, deystvitel'nyy chlen AMN SSSR (for Biryukov).
2. Otdel virusologii Instituta eksperimental'noy meditsiny
AMN SSSR, Leningrad (for Selivanov). 3. Otdel patologicheskoy
anatomii Instituta eksperimental'noy meditsiny AMN SSSR,
Leningrad (for Il'in).

(INFLUENZA RESEARCH)

BIRYUKOV, D.A., prof., otv. red.; MAKAROVA, V.V., tekhn. red.

[Institute of Experimental Medicine] Institut eksperi-
mental'noi meditsiny. Leningrad, 1962. 52 p.

(MIRA 17:3)

1. Deystvitel'nyy chlen AMN SSSR (for Biryukov).

BIRYUKOV, D.A.;; ANTROPOV, G.A.; KLIMOVA-CHERKASOVA, V.I.; KORNEVA, Ye.A.;
SHLYAFER, T.P.; YAKOVLEVA, M.I.

Comparative and physiological features of the effect of amina-
zine on the regulation of cardiovascular activity. Fizio. zhur.
48 no.8:953-959 Ag'62. (MIRA 16:6)

1. From the Laboratory for Comparative Physiology and Pathology,
Institute of Experimental Medicine, Leningrad.
(CARDIOVASCULAR SYSTEM) (CHLORPROMAZINE)

BIRYUKOV, Dmitriy Andreyevich, prof., otv. red.; GOLIKOV, N.V., red.;
ZIMKIN, N.V., red.; KARAMYAN, A.I., red.; KUPALOV, P.S., red.;
LAPINA, I.A., red.; VASIL'YEVA, Z.A., red.; KHARASH, G.A., tekhn.
red.

[Problems of the physiology and pathology of higher nervous activity]
Problemy fizologii i patologii vysshei nervnoi deiatel'nosti.
Pod obshchei red. D.A.Biriukova. Leningrad, Medgiz. No.2. 1963.
192 p. (MIRA 16:12)

1. Akademiya meditsinskikh nauk SSSR, Moscow. 2. Deystvitel'nyy
chlen AMN SSSR (for Biryukov).
(NERVOUS SYSTEM)

BORZUNOVA, Aleksandra Stepanovna; BIRYUKOV, Dmitriy Andreyevich;
VASYUKOV, Nikolay Mikhaylovich; VASIL'YEVA, Z.A., red.;
KHARASH, G.A., tekhn. red.

[Theoretical fundamentals of medical expertise on the
capacity for work] O teoreticheskikh osnovakh vrachebno-
trudovoi ekspertizy. Leningrad, Medgiz, 1963. 185 p.
(MIRA 17:1)

BIRYUKOV, D.A. (Leningrad)

I.M. Sechenov's evolutionary ideas and some problems in the
physiology of nervous activity. Fiziol. zhur. 49 no.11:1286-
1293 N '63. (MIRA 17:8)

1. Glavnyy redaktor Fiziologicheskogo zhurnala SSSR imeni
I.M. Sechenova.

BIRYUKOV, D.A. (Leningrad)

Is telepathy scientific? Vest. AMN SSSR 19 no. 1243-53 '64.
(MIRA 17:7)

BIRYUKOV, D.A.

Development of I.P.Pavlov's theories of the nervous activity in
Soviet physiology for the last 20 years. VEST. AMN' SSSR '19 no.9:
41-51 '64. (MIRA 18:3)

BIRYUKOV, D.A., prof., red.; IOFFE, V.I., prof., red.; NEYFAKH,
S.A., prof., red.; OLENOV, Yu.M., prof., red.; SVETLOV,
P.G., prof., red.; VAKHTIN, Yu.B., red.

[Problems of medical genetics] Problemy meditsinskoi ge-
netiki. Leningrad, Meditsina, 1965. 246 p.

(MIRA 18:6)

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut
eksperimental'noy meditsiny. 2. Deystvitel'nyy chlen
AMN SSSR (for Biryukov).

BIRIUKOV, D. I.

BIRIUKOV, D. I. A shaft man in the gold mining industry Sverdlovsk,
Gos. nauchno-tekhn. izd-vo lit-ry po cherno i tsvetnoi metallurgii,
1942. 114 p. (51-53221)

TN420.B5

BIRYUKOV, D. V. Doc Cand Agr Sci -- (diss) " Effect of active
exercises ^{up to} on growth and development of ^(calves of) the Kholmogory ⁺ " ~~calves~~ ^{breed.}"
Mos, 1957. 18 pp incl. covers 23 cm. (Moscow Veterinary Academy
of the Ministry of Agriculture USSR), 150 copies
(KL, 21-57, 104)

Translator's note: An explanation of the Soviet breed of cattle
can be found in Agricultural Encyclopedia, 1953 (Moscow) Vol. 3, p. 64

BIRYUKOV, D. V.

USSR / Farm Animals. Cattle.

Q-2

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54759.

Author : ~~Biryukov, D. V.~~

Inst : Not given.

Title : The Utilization of the Method of Active Exercise in the Raising of Calves of the Kholmogory Breed.

Orig Pub: Tr. Vses. s.-kh. in-ta zaochn. obrazovaniya, 1957, vyp. 1, 150-166.

Abstract: No abstract.

Card 1/1

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Country	: USSR	
Category	: Farm Animals.	Q
	Cattle.	
Abs. Jour	: Ref Zhur-Biol., No 21, 1958, 96869	
Author	: Biryukov, D. V.	
Institut.	: —	
Title	: The Effect of Active Exercise upon the Growth and Development of Young Stock.	
Orig Pub.	: Zhivotnovodstvo, 1957, No 9, 73-75	
Abstract	: In calves which were exercised at the age of 6 months (experimental group), digestive organs developed better, the indicators of their blood were higher. They consumed 33.6 percent more of coarse fodder, 48.9 percent more of juicy feeds and 21.3 percent less of concentrates than calves of the control group. In experimental animals, 0.2 less feed units and 61 g less of digestible protein were expended per 1 kg of weight gain than in controls.	
Card:	1/1	

BIRYUKOV, D.V.

USSR/Farm Animals. Cattle

Q-2

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 35653

Author : Biryukov D.V.

Inst : Not Given

Title : The Influence of the Conditions of Management on the Growth, Development and Physiological Fitness of the Calves of the Kholmogory Breed (Vliyaniye usloviy soderzhaniya na vost, razvitiye i fiziologicheskoye sostoyaniye telyat kholmogorskoj porody)

Orig Pub : Tr. Most. vot. Akad., 1957, 19, No 1, 161-173

Abstract : The calves of the experimental groups, in contrast to the control ones, were allowed exercise (the airing lasted from 5-10 min. in the first days of life to 25-30 min. at 1-1½ months of age). As a result, the 6-month old calves were consuming 33.6% more roughage, 48.9% more succulent feeds, and 21.3% less concentrates, than the calves of the control group. The calves of the experimental group had a higher live weight (239 kg. as against 216 kg. of the controls), and

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USSR/Farm Animals. Cattle

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Abs Jour : Ref Zhur - Biol., No 8, 1958, No 35653

a greater average daily weight gain (762 g. as against 669 g. of the controls); likewise, the internal organs of digestion, respiration, etc., were better developed and the red blood indexes were higher.

Card : 2/2

BIRYUKOV, D.V., inzh.

Circuit for compensating magnetic losses in a physical model of
an electric transformer. Trudy MIIT no.144:158-163 '62.
(MIRA 15:10)

(Electric transformers--Models)

BIRYUKOV, D.V., inzh.

Physical modeling of the contact network of a single-phase electric railroad. Trudy MIIT no. 144:164-180 '62. (MIRA 15:10)

(Electric railroads—Wires and wiring)

(Electric railroads—Current supply)

ARKHANGEL'SKIY, I.I., prof.; MEDVEDEV, I.D., prof.; BIRYUKOV, D.Ya.

Reviews. Veterinariia 41 no.6:118-121 Ja '64.

(MIRA 18:6)

HIRYUKOV, F.

Correct distribution of grain at receiving stations is of great importance in storage. Muk.-elev. prom. 24 no.7:4-6 JI '58.
(MIRA 11:10)

1. Ministerstvo khleboproduktov SSSR.
(Grain--Storage)

BIRYUKOV, F.I.

BIRYUKOV, F.I., inzhener.

"Experience of leading road builders" edited by A.A.Arsen'ev.
Reviewed by F.I.Biriukov. Avt.dor. 19 no.12:30 D '56. (MIRA 10:10)
(Road construction) (Arsen'ev, A.A.)

~~BIRYUKOV, F.I.~~
BIRYUKOV, F.I. insh.

Bridge pier foundations on thin-walled caissons. Avt.dor. 20
no.7:25 J1 '57. (MIRA 10:10)
(Kazakhstan--Bridge construction)
(Caissons)

TEVOSYAN, V.T.; MASHKOV, B.M.; BIRYUKOV, F.I.; D'YACHENKO, V.M.,
red.; GOLUBKOVA, L.A., tekhn. red.

[Manual on the quality of grain and grain products] Spravochnik
po kachestvu zerna i produktov ego pererabotki. Moskva, Zagot-
izdat, 1962. 455 p. (MIRA 15:12)
(Grain trade)

BIRYUKOV, G.

The training of specialists in technical schools by correspondence.
Fin.SSSR 16 no.9:74-79 S'55. (MIRA 8:12)
(Finance--Study and teaching) (Correspondence schools and
courses)

BIRYUKOV, G.

Friendship verified by life. Sov. profsoiuzy 18 no.9:8-9
Mg '62. (MIRA 15:4)

1. Predsedatel' zavodskogo komiteta Tul'skogo zavoda "Shtamp."
(Tula Province—Collective farms)

DOMRACHEV, N., otv. red.; PITIRIMOV, V., red. - BELYAYEV, O.,
red.; BIRYUKOV, G., red.; RUMYANTSEVA, V., red.;
SOLODYANNIKOV, A., red.; TRAKHTENBERG, G., red.

[Give way to the new and the advanced] Dorogu novomu,
peredovomu. Kirov, Izd-vo "Kirovskaya Pravda, 1961. 58 p.
(MIRA 18:3)

1. Obshchestvo po rasprostraneniyu politicheskikh i nauch-
nykh znaniy RSFSR. Kirovskoye oblastnoye otdeleniye.

BIRYUKOV, G. S.

USSR/Engineering - Machinery

Card 1/1

Author : Biryukov, G. S.

Title : Boring out openings in a connecting rod on a lathe

Periodical : Stan. i instr. 24/4, 32, May 1953

Abstract : The author describes the use of a special arrangement for boring holes in connecting rods of vacuum pumps on a screw-cutting lathe and claims that the arrangement is adaptable to mass production.

Institution :

Submitted :

BIRYUKOV, G. S.

AID P - 5039

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 10/22

Author : Biryukov, G. S.
~~USSR/Engineering~~

Title : Devices for control of non-perpendicularity and non-parallelism in mass production.

Periodical : Stan. 1 instr., 4, 33-34, Ap 1956

Abstract : The author describes several new, simple and durable mechanical attachments adapted in rotary and reciprocating vacuum pumps for control of non-perpendicularity in the location of holes and non-parallelism of grooves. Eight drawings.

Institution : None

Submitted : No date

25(2)

SCV/117-59-5-7/30

AUTHORS: Biryukov, G.S., and Sharapov, A.A., Engineers

TITLE: Modernized Multiple-Disc Roller Shears

PERIODICAL: Mashinostroitel', 1959, Nr 4, pp 14-15 (USSR)

ABSTRACT: To increase work productivity, the authors have modernized multiple-disc roller shears at the Zavod im. Maslennikova (Plant imeni Maslennikov). The technical characteristics of this modernized steel band-cutting machine (without winding device) are as follows: maximum width of the band to be cut - 200 mm, thickness of the band - from 0.1 to 2 mm, maximum number of shear pairs (for 2mm band) - 6, diameter of the shears - 150 mm, capacity of the electric motor - 3.5 kilowatts, and cutting speed - from 40 to 80 m per minute. There are 2 sets of diagrams.

Card 1/1

BIRYUKOV, G.S.

Geometry of the face cam clutch with a triangular profile. Stan.i
instr. 32 no.3:35-36 Mr '61. (MIRA 14:3)
(Clutches)

BIRYUKOV, G.S., insh.

Device for recording errors in the shape of antifriction bearing
tracks. Vest.mash. 41 no.7:73-75 J1 '61. (MIRA 14:6)
(Bearings (Machinery) Testing)

BIRYUKOV, G.S.

Design and construction of a precision spindle for measuring
instruments. Stan.i instr. 33 no.9:16-18 S '62. (MIRA 15:9)
(Measuring instruments--Design)
(Grinding and polishing)

S/115/63/000/001/008/017
E194/E155

AUTHOR: Biryukov, G.S.

TITLE: An instrument for checking roundness

PERIODICAL: Izmeritel'naya tekhnika, no.1, 1963, 23-24

TEXT: The part to be measured, such as a ball-bearing race, is accurately centered on a reference table. A pneumatic gauge probe is driven around it and probe displacement is measured by a conventional diaphragm-displacement compensator with mechanical multiplication of the diaphragm displacement, giving recordings on a circular chart. Magnifications of 1000, 2000 and 4000 are obtained by changing the outlet needle valve of the diaphragm compensator and the ratio of the multiplier. Diameters of 2 - 100 mm can be measured with an error of 0.3 microns. When used on races for rolling element bearings, the equipment showed that existing methods of grinding were not ensuring adequate concentricity, particularly of outer races. There are 3 figures.

Card 1/1

BIRYUKOV, G.S.

Measuring the circularity of center holes. Izv. tekhn. no.8:
21-22 Ag '63. (MIRA 16:10)

BIRYUKOV, G.S.; TAVIL', A.B.

Lapping tool with a pneumatic-hydraulic diameter regulation. Stan.
i instr. 36 no.9:25-26 S '65. (MIRA 18:10)

BIRYUKOV, I.; CHERNYAVSKIY, Ya.

Balance sheet of the expenditure of work time at a plant. Sots.
trud. 5 no.3:117-122 Mr '60. (MIRA 13:6)

1. Glavnyy inzhener Krasnoyarskogo sudostroitel'nogo zavoda (for
Biryukov). 2. Starshiy inzhener Krasnoyarskoy laboratorii Instituta
ekonomiki i organizatsii promyshlennogo proizvodstva (for
Chernyavskiy).
(Krasnoyarsk--Shipbuilding)
(Time study)

BIRYUKOV, I. (Riga)

Analysis of the electrostatic flat radiator. Vestis Latv ak no.2:
57-62 '60. (EEAI 10:1)

1. Akademiya nauk Latvyskoy SSR, Institut fiziki.
(Electrostatics) (Sound)

BIRYUKOV, I.

Saving electric power. Zhil.-kom.khoz. 10 no.4:10-11
'60. (MIRA 13:6)

1. Nachal'nik Upravleniya kommunal'noy energetiki
Ministerstva kommunal'nogo khozyaystva RSFSR.
(Electric power)

BIRYUKOV, I., mekhanik

Source of inspiration. Rech. transp. 20 no.12:5 D '61.

(MIRA 14:12)

1. Buksirnyy parokhod "Koz'ma Minin" Severnogo rechnogo
parokhodstva.

(Inland water transportation)

22339
S/197/61/000/003/002/003
B101/B206

24,6410

AUTHOR: Biryukov, I.

TITLE: Effect of gamma radiation on the intensity of the nuclear quadrupole resonance signal

PERIODICAL: Izvestiya Akademii nauk Latvyskoy SSR, no. 3, 1961, 59-60

TEXT: When applying a radio-frequency field to a crystalline sample, the energy of which equals the difference of the quadrupole energy level, a characteristic absorption line is observed. The spread of the values of the gradient Q from nucleus to nucleus determines the width of the line observed. If Q changes to such a degree that it does not contribute any more to the line observed, the intensity of the nuclear quadrupole resonance (nqr) decreases. This effect was used for observing the effect of gamma radiation on the intensity of the $KClO_3$ line. The

nqr signal was observed by means of the super generator method having Zeeman modulation. The solenoid consisting of 12,500 windings was fitted over the aluminum container which contained 30 g $KClO_3$. A modulator

frequency of 30 cps and a voltage of 4 v were found to be the best
Card 1/2

Effect of gamma...

22339

S/197/61/000/003/002/003
B101/B206

observation conditions. The nqr signals of the Cl^{35} nuclei of irradiated and nonirradiated samples were recorded at room temperature by photographing the oscilloscope screen. The irradiation dose was varied between 200,000 and 400,000 r. Only a small reduction of the signal was observed at the lower limit of the irradiation dose. Repeated photographic recording of the signal during maximum irradiation produced an average reduction of the signal height by 15-20%. It is assumed that the effect of the gamma quanta (which produced yellow coloring of the sample) causes a change of the energy distribution in the crystal. The gradient of the inner field of the crystal is altered and the number of resonating nuclei decreases. [Abstracter's note: The photograph of the signal is not reproducible.] There are 1 figure and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to English-language publication reads as follows: I. Depireux, I. Dechesne, Nature, 1958, 181, 1.769.

ASSOCIATION: Institut fiziki AN Latv. SSR (Institute of Physics, AS Latviyskaya SSR)

SUBMITTED: November 11, 1960
Card 2/2

BIRYUKOV, I.

Effect of gamma radiation on the intensity of a nuclear quadrupole resonance signal. Vestis Latv ak no.3:59-60 '61.

1. Institut fiziki AN Latvyskoy SSR.

BIRYUKOV, I.

Some characteristics of the separation of quadrupole nuclear resonance signals. Vestis Latv ak no.2:75-78 '62.

1. Institut fiziki AN Latvyskoy SSR.

246600

15342

S/181/63/005/002/017/051
B104/B102

AUTHORS: Biryukov, I., and Berson, I.

TITLE: The second moment of the nuclear resonance lines for nuclei with the spin 5/2

PERIODICAL: Fizika tverdogo tela, v. 5, no. 2, 1963, 499-501

TEXT: The second moment of the quadrupole resonance lines of nuclei with the spin 5/2 in an axisymmetrical electric field is calculated for the transition frequencies ν_0 and $2\nu_0$ and an arbitrary direction.

Results: a) Interaction between resonant nuclei:

$$\langle A^2 \rangle_{\nu_0} = \frac{1}{15} 220 g^2 \mu^2 \nu_0^2 \quad (5)$$

$$\langle A^2 \rangle_{2\nu_0} = \frac{1}{15} 118 g^2 \mu^2 \nu_0^2 \quad (6)$$

Card 1/3

The second moment of the nuclear ...

8/181/63/005/002/017/051
B104/B102

is obtained for the line ν_0 and $2\nu_0$. b) Interaction between resonant and non-resonant nuclei. Three possibilities exist. Either the spin of the non-resonant nuclei is arbitrary, (case 1), or the spin of the non-resonant nuclei is half integral (case 2), or the spin of the non-resonant nuclei is integral (case 3). Results obtained for the lines ν_0 for the cases 1 to 3 (from top to below):

$$\begin{aligned} \langle \Delta\nu^2 \rangle_1 &= \frac{1}{24} I(I+1) \left\{ \frac{11}{2} \left(1 + \frac{b}{a} \right) a \right\} \\ \langle \Delta\nu^2 \rangle_2 &= \frac{1}{24} I(I+1) a \left[\left\{ 1 + \frac{27}{16} \frac{2I+1}{I(I+1)} \right\} + \right. \\ &\quad \left. + \frac{9}{4} \left[1 + \frac{13}{24} \frac{2I+1}{I(I+1)} \right] \frac{b}{a} \right] \\ \langle \Delta\nu^2 \rangle_3 &= \frac{1}{24} I(I+1) a \left(1 + \frac{9}{4} \frac{b}{a} \right) \end{aligned} \quad (12)$$

Results for the lines $2\nu_0$ for the cases 1 to 3 (from top to below)

Card 2/3

The second moment of the nuclear ...

S/181/63/005/002/017/051
B104/B102

$$\langle \Delta v^2 \rangle_{cp.} = \frac{1}{3A^2} I'(I'+1) a \left(1 + \frac{b}{a} \right)$$

$$\langle \Delta v^2 \rangle_{cp.} = \frac{1}{3A^2} I'(I'+1) a \left[1 + \frac{3}{8} \frac{2I'+1}{I'(I'+1)} \frac{b}{a} \right]$$

$$\langle \Delta v^2 \rangle_{cp.} = \frac{1}{3A^2} I'(I'+1) a$$

(13).

ASSOCIATION: Institut organicheskogo sinteza AN Latv. SSR, Riga
(Institute of Organic Synthesis AS LatSSR, Riga)

SUBMITTED: June 25, 1962 (initially)
August 22, 1962 (after revision)

Card 3/3

BIRYUKOV, I.A.

Industrial centralization as factor for increasing labor productivity in mining. Izv. vys. ucheb. zav.; tsvet. met. no.2:165-168 '58. (MIRA 11:8)

1. Severokavkazskiy gornometallurgicheskiy institut. Kafedra ekonomiki i organizatsii proizvodstva.
(Nonferrous metal industries) (Industrial organization)

OSTROUSHKO, I.A.; YEMEKEYEV, V.I.; BIRYUKOV, I.A.; KRIVCHIKOV, P.F.;
CHUGUNOV, L.P.; BOBIN, Ye.G.

Mechanized hole charging in powder blasting operations. Gor.
zhur. no.10:36-38 0 '60. (MIRA 13:9)

1. Severo-Kavkazskiy gorno-metallurgicheskiy institut,
g. Ordzhonikidze (for Ostroushko, Yemekeyev, Biryukov).
 2. Tyrnyauskii gorno-obogatitel'nyy kombinat (for Krivchikov,
Chugunov, Bobin).
- (Mining engineering)

DEMIN, N.S.; BIRYUKOV, I.A.

New method of determining the optimum depth in open-pit mining.
Izv. vys. ucheb. zav.; tsvet. met. 3 no.5:141-145 '60.

(MIRA 13:11)

1. Severokavkazskiy gornometallurgicheskiy institut. Kafedra
razrabotki mestorozhdeniy poleznykh iskopayemykh.
(Strip mining)

BIRYUKOV, I.A.

Concentration within the industry and its effect on technical and economic indices of operations in mining enterprises.
Izv. vys. ucheb. zav.; tsvet. met. 4 no.5:194-197 '61. (MIRA 14:10)

1. Severokavkazskiy gornometallurgicheskiy institut, kafedra ekonomiki i organizatsiii proizvodstva.
(Mining industry and finance)

BIRYUKOV, Igor' Dmitriyevich; SHUGALO, L.V., red.; MALEK, Z.N., tekhn.red.

[Garibaldi star] Garibal'diiskaya svezda. Moskva, Izd-vo
VTsSPS Profizdat, 1960. 94 p.

(MIRA 14:2)

(Italy--Description and travel)

BIRYUKOV, I.D.

KVEK, German Germanovich; ZHENKO, Kira Aleksandrovna; KATULIN, Konstantin Aleksandrovich; KUDRYAVTSEV, D.S., retsenzent; BAKUN, M.K., retsenzent [deceased]; BIRYUKOV, I.D., retsenzent; BAVSTRUKA, N.F., red.; AKSENOVA, I.I., red.; MEDVEDEV, L.Ya., tekhn.red.

[Manufacture of gobelin fabrics] Proizvodstvo gobelenovykh tkani.
Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po legkoi promyshl., 1959.
133 p. (MIRA 13:3)

(Jacquard weaving)

(Gobelin tapestry)

BIRYUKOV, I.I.; PRIYEZZHEV, N.S.

Road construction is a national business. Avt. dor. 28 no.4:5
Ap '65.

(MIRA 18:5)

1. Zamestitel' predsedatelya Gor'kovskogo oblastnogo ispolnitel'-
nogo komiteta (for Biryukov). 2. Predsedatel' Ryazanskogo oblast-
nogo ispolnitel'nogo komiteta (for Priyezzhev).

BIRYUKOV, I.I., inzh.

Assembling the system of precipitation electrodes of an electrostatic filter in large blocks. *Mant. i spets. rab. v stroi.* 25 no.3:11-13
Mr '63. (MIRA 16:2)

1. Nauchno-issledovatel'skaya stantsiya No.15 pri treste
Soyuzshakhtospetsmontash.
(Dust collectors)

BIRYUKOV, I. K.

ANDON'YEV, V.L.; BAUM, V.A.; BAUMGARTEN, N.K.; BEREZIN, V.D.; ~~BIRYUKOV, I.K.~~;
 BIRYUKOV, S.M.; BLOKHIN, S.I.; BOROVY, G.A.; BULEV, M.Z.; BURAKOV,
 N.A.; VERTSAYZER, B.A.; VOVK, G.M.; VORMAN, B.A.; VOSHCHININ, A.P.;
 GALAKTIONOV, V.D., kand. tekhn. nauk; GENKIN, Ye.M.; GIL'DENBLAT,
 Ya.D., kand. tekhn. nauk; GINZBURG, M.M.; GLEBOV, P.S.; GODES, E.G.;
 GORBACHEV, V.N.; GRZHB, B.V.; GHEKULOV, L.F., kand. s.-kh. nauk;
 GRODZENSKAYA, I.Ya.; DANILOV, A.G.; DMITRIYEV, I.G.; DMITRIYENKO,
 Yu.D.; DOBROKHOTOV, D.D.; DUBININ, L.G.; DUNDUKOV, M.D.; ZHOLIK,
 A.P.; ZHENKOVICH, D.K.; ZIMAROV, Ye.V.; ZIMASKOV, S.V.; ZUBRIK, K.M.;
 KARANOV, I.F.; KNYAZEV, S.N.; KOLMGAYEV, N.M.; KOMAREVSKIY, V.T.;
 KOSENKO, V.P.; KORENISTOV, D.V.; KOSTROV, I.N.; KOTLYARSKIY, D.M.;
 KRIVSKIY, M.N.; KUZNETSOV, A.Ya.; LAGAR'KOV, N.I.; LGALOV, V.G.;
 LIKHACHEV, V.P.; LOGUNOV, P.I.; MATSEKOVICH, K.F.; MEL'NICHENKO,
 K.I.; MENDELEVICH, I.R.; MIKHAYLOV, A.V., kand. tekhn. nauk;
 MUSIYVA, R.N.; NATANSON, A.V.; NIKITIN, M.V.; OVES, I.S.;
 OGUL'NIK, G.R.; OSIPOV, A.D.; OSMER, N.A.; PETROV, V.I.; PIRYSHKIN,
 G.A., prof.; P'YANKOVA, Ye.V.; RAPOPORT, Ya.D.; REMEZOV, N.P.;
 ROZANOV, M.P., kand. biol. nauk; ROCHKOV, A.G.; RUBINCHIK, A.M.;
 RYBCHENSKIY, V.S.; SADCHIKOV, A.V.; SEMENTSOV, V.A.; SIDENKO, P.M.;
 SINYAVSKAYA, V.T.; SITAROVA, M.N.; SOSNOVIKOV, K.S.; STAVITSKIY,
 Ye.A.; STOLYAROV, B.P. [deceased]; SUDZILOVSKIY, A.O.; SYRTSOVA,
 Ye.D., kand. tekhn. nauk; FILIPPSKIY, V.P.; KHALTURIN, A.D.;
 TSISHNEVSKIY, P.M.; CHERKASOV, M.I.; CHERNYSHOV, A.A.; CHUSOVITIN,
 N.A.; SHESTOPAL, A.O.; SHKHTER, P.A.; SHISHKO, G.A.; SHCHERBINA,
 I.N.; ENGEL', F.F.; YAKOBSON, A.G.; YAKUBOV, P.A., ARKHANGEL'SKIY,
 (Continued on next card)

ANDON'YEV, V.L.... (continued) Card 2.

Ye.A., retsenzent, red.; AKHUTIN, A.N., retsenzent, red.; BALASHOV, Yu.S., retsenzent, red.; BARABANOV, V.A., retsenzent, red.; BATUNER, P.D., retsenzent, red.; BORODIN, P.V., kand. tekhn. nauk, retsenzent, red.; VALUTSKIY, I.I., kand. tekhn. nauk, retsenzent, red.; GRIGOR'YEV, V.M., kand. tekhn. nauk, retsenzent, red.; GUBIN, M.F., retsenzent, red.; GUDAYEV, I.N., retsenzent, red.; YERMOLOV, A.I., kand. tekhn. nauk, retsenzent, red.; KABAULOV, B.F., retsenzent, red.; KRITSKIY, S.N., doktor tekhn. nauk, retsenzent, red.; LIKIN, V.V., retsenzent, red.; LUKIN, V.V., retsenzent, red.; LUSKIN, Z.D., retsenzent, red.; MATRIROSOV, A.Kh., retsenzent, red.; MENDELEYEV, D.M., retsenzent, red.; MENKEL', M.F., doktor tekhn. nauk, retsenzent, red.; OBRIZKOV, S.S., retsenzent, red.; PETRASHEN', P.N., retsenzent, red.; POLYAKOV, L.M., retsenzent, red.; RUMYANTSEV, A.M., retsenzent, red.; RYABCHIKOV, Ye.I., retsenzent, red.; STASHENKOV, N.G., retsenzent, red.; TAKANAYEV, P.F., retsenzent, red.; TARANOVSKIY, S.V., prof., doktor tekhn. nauk, retsenzent, red.; TIZDEL', R.R., retsenzent, red.; FEDOROV, Ye.M., retsenzent, red.; SHENYAKOV, M.N., retsenzent, red.; SHMAKOV, M.I., retsenzent, red.; ZHUK, S.Ya. [deceased], akademik, glavnyy red.; RUSSO, G.A., kand. tekhn. nauk, red.; FILIMONOV, N.A., red.; VOLKOV, L.N., red.; GRISHIN, M.M., red.; ZHURIN, V.D., prof., doktor tekhn. nauk, red.; KOSTROV, I.N., red.; LIKHACHEV, V.P., red.; MEDVEDEV, V.M., kand. tekhn. nauk, red.; MIKHAYLOV, A.V., kand. tekhn. nauk, red.; PETROV, G.D., red.; RAZIN, N.V., red.; SOBOLEV, V.P., red.; FERINGER, B.P., red.; FREYGOFER, (Continued on next card)

ANDON'YEV, V.L.... (continued) Card 3.

Ye.F., red.; TSYPLAKOV, V.D. [deceased], red.; KORABLINOV, P.N.,
tekhn. red.; GEMKIN, Ye.M., tekhn. red.; KACHUROVSKIY, N.V., tekhn.
red.

[Volga-Don; technical account of the construction of the V.I. Lenin
Volga-Don Navigation Canal, the TSimlyansk Hydroelectric Center,
and irrigation systems] Volgo-Don; tekhnicheskii otchet o stroitel'-
stve Volgo-Donskogo sudokhodnogo kanala imeni V.I. Lenina, TSim-
lianskogo gidrouzla i orositel'nykh sooruzhenii, 1949-1952; v piati
tomakh. Moskva, Gos. energ. izd-vo. Vol.1. [General structural
descriptions] Obshchee opisanie sooruzhenii. Glav. red. S.IA. Zhuk.
Red. toma M.M. Grishin. 1957. 319 p. Vol.2. [Organization of con-
struction. Specialized operations in hydraulic engineering] Orga-
nizatsiia stroitel'stva. Spetsial'nye gidrotekhnicheskie raboty.
(Continued on next card)

ANDON'YEV, V.I.... (continued) Card 4.

Glav. red. S.IA. Zhuk. Red. toma I.N. Kostrov. 1958. 319 p.

(MIRA 11:9)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsii. Byuro
tekhnicheskogo otcheta o stroitel'stve Volgo-Dona. 2. Chlen-kor-
respondent Akademii nauk SSSR (for Akhutin). 3. Deystvitel'nyy
chlen Akademii stroitel'stva i arkhitektury SSSR (for Grishin,
Razin).

(Volga Don Canal--Hydraulic engineering)

BIRYUKOV, I.M., Doc Tech Sci—(diss) *Substitution of the* "Scientific ~~grounds for the con-~~
designing cutting ~~struction~~ of ~~milling~~ chisels for ~~drilling~~ *of wells* in hard rocks." Mos, 1958.

26 pp with drawings (Min of Higher Education USSR. For Geol-Prospecting
Inst in S.Ordzhonikidze), 150 copies (ML, 44-58, 122)

- 28 -

AUTHOR: Biryukov, I.M., Candidate of Technical Sciences SOV/127-58-12-9/26

TITLE: ~~Fundamental Trends in the Designing of Milling Cutters~~
(Osnovnyye napravleniya v konstruirovani sharoshechnykh dolot)

PERIODICAL: Gornyy zhurnal, 1958, Nr 12, pp 33 - 40 (USSR)

ABSTRACT: The author fixes basic conditions for the designing of milling cutters for drilling in hard or abrasive rocks. The milling cutters must have a perfect conical shape (the top of this cone must coincide with the geometrical axis of the cutter). A double cutter unit is more efficient than a unit with three cutters. A frictional (differential) milling cutter, invented by the Engineers R.A. Ioannesyan and M.G. Gusman, allows an increase in the axial pressure, its drilling speed, and improves its resistance to wear. The less bits there are on the cutter, the more efficient is its work. It is recommended to fix the wedge-like bits, made entirely from a hard alloy, on the cutter by pressing the metal around them and soldering it. All these findings are substantiated by the author by analytical calculations.

Card 1/2

Fundamental Trends in the Designing of Milling Cutters SOV/127-58-12-9/26

ations and practical tests at the Mine imeni Gubkin of the
KMaruda Trust. There are 7 diagrams, 1 table and 1 graph.

ASSOCIATION: VNII Burovoy tekhniki (The VNII of Drilling Technique)

Card 2/2

BIRYUKOV, I.M., kand.tekhn.nauk

New roller bit for boring holes in hard rock. Gor.zhur. no.10:
34-36 0 '60. (MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut burovoy
tekhniki, Povarovo, Moskovskoy obl.
(Rock drills)

BIRYUKOV, Innokentiy Mikhaylovich; BRONNIKOV, D.M., doktor tekhn. nauk,
retsenzent; GEYMAN, L.M., red. izd-va; SABITOV, A., tekhn. red.

[Boring with a roller bit in mining] Sharoshechnoe buzenie v
gornom dele. Moskva, Gosgortekhnizdat, 1962. 162 p.

(Boring machinery)

(MIRA 15:9)

BIRYUKOV, I.M., kand. tekhn. nauk

Letter to the editor. Gor. zhur. no.9:39 S '64.

(MIRA 17:12)

SERGEL', O.S.; BIRUKOV, I.N.; KAS'YANOV, I.S.; SVIRIDOV, N.K.

Dynamics of luminescence of the internal organs of animals in vivo
following the action of ionizing radiation. Preliminary report.
Lab. delo 7 no.1:5-7 Ja '61. (MIRA 14:1)

1. Radiologicheskiy otdel (zav. - prof. A.V. Kozlova) Gosudarstvennogo
nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta
Ministerstva zdravookhraneniya RSFSR i kafedra nauchnoy fotografii
i kinematografii (zav. - chlen-korrespondent AN SSSR prof.
K.V. Chibisov) Moskovskogo gosudarstvennogo universiteta.
(RADIOACTIVE TRACERS) (FLUORESCENCE)

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