

ZHUKOV, V.V.

Recording microphotometer built on the MF-2 instrument.  
Zav.lab. 27 no.7:908-910 '61. (MIRA 14:7)

1. Kazanskiy aviatsionnyy institut.  
(Microphotometer)

ZHUKOV, V.V., inzh.; MILONOV, V.M., kand.tekhn.nauk

Action of temperature and loading on two-hinged frames. Bet.  
1 zhel.-bet. no.5:213-218 My '61. (MIRA 14:6)  
(Reinforced concrete)  
(Structural frames)

SHIROKOV, Anatoliy Pavlovich; SAMETS, Mikhail Grigor'yevich; ZHUKOV, V.V.,  
otv. red.; SMIRENSKIY, M.M., red. izd-va; IL'INSKAYA, G.M., tekhn.  
red.

[Working coal seams without bracing up the area near the cut] Raz-  
rabotka ugol'nykh plastov bez krepleniia prizaboinogo prostranstva.  
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961.  
169 p. (MIRA 14:9)

(Coal mines and mining)

PAVLYUCHENKO, Dmitriy Nikolayevich; ZHUKOV, V.V., otv.red.; SUKHININA,  
N.D., tekhn.red.

[Supports in coal-mine stopes] Krep' ochistnykh zaboev  
ugol'nykh shakht. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po  
gornomu delu, 1960. 135 p.

(MIRA 14:3)

(Mine timbering)

(Coal mines and mining--Equipment and supplies)

ANGARSKIY, V.V., inzh.; ZHUKOV, V.V., kand.tekhn.nauk

Roof caving without battery stulls. Ugol' 35 no.7:44-46 JI '60.  
(MIRA 13:7)

(Kuznetsk Basin --Mining engineering)

POROYKOV, I.V., prof.; KORNEV, Yu.V., dots.; ZHUKOV, V.V., dots.

[Selected chapters on physics] Otdel'nye glavy fiziki.  
Moskva, Vysshaya shkola, 1964. 218 p. (MIRA 18:1)

ZHUKOV, V.V.; SHAPIRO, B.M., dotsent, nauchnyy rukovoditel' raboty

Immunological characteristics of cytotoxic nephritis in a chronic experiment. Trudy KirgNOAGE no.2:127-129 '65.

Characteristics of the beginning of recovery in chronic Masugi nephritis. Ibid.:129-130 (MIRA 18:11)

1. Kirgizskiy gosudarstvennyy meditsinskiy institut.

ZHUKOV, V.V., kand. tekhn. nauk; ORLOV, G.V.

Settling of the ground surface during gasification of a coal seam at the industrial gas-producer, "Podzengaz", No.3 Angren plant. Trudy VNIIPodzengaza no.12:68-74 '64.

(MIRA 18:9)

1. Laboratoriya gornogeologicheskaya Vsesoyuznogo nauchno-issledovatel'skogo instituta podzemnoy gazifikatsii ugley.



ZHUKOV, V.Ye., gornyy inzh.

Some observations in connection with V.T. Davidiant's article.  
Ugol' Ukr 5 no.3:45-46 Mr '61. (MIRA 14:3)  
(Mine timbering)

RUDCHENKO, V.P.; ZHUKOV, V.Ye.

Rock pressure control in the steeply dipping Donets Basin seams.  
Ugol' 36 no.1:19-22 Ja '61. (MIRA 14:1)  
(Donets Basin—Rock pressure) (Mine timbering)

SOV/44-58-4-3005

Translation from: Referativnyy zhurnal, Matematika, 1958,  
Nr 4, p 84 (USSR)

AUTHOR: Zhukov, V. Ye

TITLE: ~~Examples of the Application of the Simplest Functions in~~  
Physics and Engineering (Primery primeneniya prosteyshikh  
funktsiy v fizike i tekhnike)

PERIODICAL: Uch. zap. Vyborsk. gos. ped. in-ta, 1957, Nr 2,  
pp 50-65

ABSTRACT: Bibliographic entry.

Card 1/1

ZHUKOV, V.Ye., inzh.

No, one cannot agree with Comrade Lopukhin's suggestion. Ugol'  
Ukr. 2 no.10:45-46 0 '58. (MIRA 12:1)  
(Mining engineering)

ZHUKOV, V. Ye., Candidate Tech Sci (diss) -- "Investigation of problems of controlling the rock pressure in working steeply sloping seams in the central region of the Donbass". Moscow, 1959. 19 pp (Acad Sci USSR, Inst of Mining), 150 copies (KL, No 25, 1959, 133)

SOV/44-58-4-3016

Translation from: Referativnyy zhurnal, Matematika, 1958,  
Nr 4, p 84 (USSR)

AUTHOR: Zhukov, V. Ye.

TITLE: On Computing the Volume of a Solid of Revolution with the  
Aid of Definite Integrals (O vychislenii ob'yemov tel  
vrashcheniya s pomoshch'yu opredelennykh integralov)

PERIODICAL: Uch. zap. Vyborsk. gos. ped. in-ta, 1957, Nr 2,  
pp 66-71

ABSTRACT: Bibliographic entry.

Card 1/1

ZHUKOV, V.Ye.

Exostoses of the lower jaw and prosthesis in relation to them. Stomatologia 38 no.6:67-69 N-D '59. (MIRA 13:4)

1. Iz stomatologicheskoy polikliniki No.10 (glavnyy vrach V.Ye. Zhukov) Upravleniya khozraschetnymi lechebnymi uchrezhdeniyami Moskovskogo gorodskogo otdela zdravookhraneniya (nachal'nik G.M. Volchenkov, nauchnyy rukovoditel' - prof. V.Yu. Kurlyandskiy).  
(EXOSTOSIS) (DENTAL PROSTHESIS)

ZHUKOV, V.Ye.; PARASOTOK, V.A.

Mining steep beds having unstable side formations. Bezop. truda v prom.  
2 no.11:3-4 N '58. (MIRA 11:11)  
(Coal mines and mining)



KRASOZOV, I.P.; ZHUKOV, V.Ye.; POL'SKIY, N.D.

Problems in the complex mechanization of stoping operations  
in steeply pitching seams of the Donets Basin. Ugol' 40  
no.8:44-48 Ag '65. (MIRA 18:8)

1. Donetskii nauchno-issledovatel'skiy ugol'nyy institut (for  
Krasozov, Zhukov). 2. Kombinat Artemugol' (for Pol'skiy).

ANISHCHENKO, Ye.Ye.; HUDCHENKO, V.P.; ZHUKOV, V.Ye.

Reorganization of mines in the central part of the Donets  
Basin. Ugol' Ukr. 3 no.6:6-9 Je '59. (MIRA 12:11)  
(Donets Basin--Coal mines and mining)

RUDCHANKO, V.P., gorny inzhener; ZHUKOV, V. Ye., gorny inzhener

Technical and economic advantages of blind workings in mining  
steeply dipping seams. Ugol' Ukr. no.6:7-8 Je '61.

(MIRA 14:7)

1. Kombinat Stalinugol'.  
(Donets Basin--Coal mines and mining)

ZHUKOV, V.Ye., gornyy inzh. (Donetsk)

Complete filling on steep seams in the Donets Basin is an important factor for accelerating technical progress. Ugol' 38 no.1:16-19 Ja '63. (MIRA 18:3)

GRIGOR'YEV, V.L., kand. tekhn. nauk; ZHUKOV, V.Ye., kand. tekhn. nauk

Conference on the problems of mining coal deposits at  
great depths. Ugol' 39 no.3:74-75 My'64. (MIRA 17:5)

ZHUKOV, V. Ya.

ZHUKOV, V. Ya., inzhener.

Longwall filling in mining steep beds in unstable formations.  
Bezop.truda v prom. 1 no.9:22-23 S '57. (MLRA 10:9)  
(Coal mines and mining--Safety measures)

VOLODIN, A.; IVANOVA, T.; ZHITELEV, S.; ZAYTSEVA, T.; GATCHINSKIY, M.;  
LOTSEV, I.; PETROVA, V.; ZHUKOV, Ya.

You are in Leningrad. Mest.prom.i khud.promys. 2 no.2:5-15 F  
'61. (MIRA 14:4)

1. Glavnyy inzhener Leningradskoy fabрики po remontu i poshivu  
obuvi No 1 (for Petrova).

2. Direktor fabрики "Muzradio" (for Zhukov).

(Leningrad--Service industries)

ZLATOLINSKIY, V.N., arkhitektor; CHETYRKIN, D.A., arkhitektor; ZHUKOV, Ya.N.,  
arkhitektor.

Example of the design of an industrial complex for enterprises  
of the chemical industry. Prom. stroi. 42 no.12:40-42 D '64.

(MIRA 18:3)



ZHUKOV, Ya.N., arkhitekto

Experimental designing of master plans for industrial plants.  
Prom. stroi. 39 no. 1:19-24 '61. (MIRA 14:1)

1. Nauchno-issledovatel'skiy institut gradostroitel'stva.  
(Factories--Designs and plans)

ZHUKOV, Ya. S.  
RESHETOV, K.A., inzhener-kapitan; ZHUKOV, Ya. S., inzhener-mayor; GLAZ-  
KOV, G.P., inzhener-kapitan; ZERNOV, A.G., inzhener; SHTEYMAN,  
A.B., podpolkovnik, redaktor; YEREMYEVA, Ye.N., tekhnicheskiy re-  
daktor.

[The PK-30, R-20-M and R-60-M medium field telephone switchboards]  
Polevye telefonnye kommutatory srednei emkosti PK-30, R-20-M, P-60-M.  
Moskva, Voen. izd-vo Ministerstva Vooruzhennykh Sil SSSR, 1946. 142 p.  
(MLRA 8:2)

1. Russia (1923- U.S.S.R.) Armiya. Upravleniye boyevoy podgotovki  
voysk svyazi sukhoputnykh voysk.  
(Telephone switchboards)

ZHUKOV, Ye., kapitan dal'nego plavaniya

Moral and physical factors in life saving at sea. Mor.  
flot 22 no.11:18-19 N '62. (MIRA 15:12)

1. Nachal'nik kafedry "Morskoye delo" Vysshogo  
vayenno-inzhenernogo morskogo uchilishcha.  
(Life saving)

ZHUKOV, Ye.A. (Sverdlovsk, ul. 8 marta, d.7, kv. 13)

Clinical aspects of cancer of the thyroid gland, Vest. khir. 82  
no.6:45-49 Je '59. (MIRA 12:8)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. V.F.  
Kolosovskaya) Sverdlovskogo meditsinskogo instituta.  
(THYROID GLAND--CANCER)

ZHUKOV, Ye.A.

Case of giant retroperitoneal lipoma. Khirurgiia 35 no. 11:129-130  
N '59. (MIRA 14:1)

(RETROPERITONEAL SPACE---TUMORS)

1. ZHUKOV, YE. F., Engr.
2. SSSR (600)
4. Pipelines
7. Trenchless laying of pipe lines by the method of "piercing" the ground.  
Bul. stroi. tekhn. 9 No. 21, 1952

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

**"APPROVED FOR RELEASE: 09/19/2001**

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**APPROVED FOR RELEASE: 09/19/2001**

**CIA-RDP86-00513R002064920020-6"**

ASSOCIATION: none

Card 1/2/

ZHUKOV, YE. A. Card Med Sci -- (diss) "Questions on the clinic, morphology  
and treatment of malignant neoplasms of thyroid gland," Sverdlovsk, 1960,  
19 pp (Perm' State Medical Institute) (KL, 35-60, 126)



ZHUKOV, Ye.A. (Sverdlovsk, ul.8-go Marta, d.7, kv.12)

Some data on the morphology of thyroid gland cancer. Nov. khir.  
arkh. no.1:42-51 Ja-F '61. (MIRA 15:2)

1. Kafedra fakul'tetskoy khirurgii (zav. - prof. V.F.Kolosovskaya)  
Sverdlovskogo meditsinskogo instituta.  
(THYROID GLAND\_\_CANCER)

MARKATOV, S.; ZHUKOV, Ye.

Wide-band antenna amplifier. Radio no.10:45-46 0 '61.

(MIRA 14:10)

(Television--Receivers and reception)  
(Amplifiers (Electronics))

21897-55 EWT(m)/FCC/T IJP(c)  
ACC NR: AP5024642

SOURCE CODE: UR/0048/65/029/009/1719/1721

AUTHOR: Babayev, M.K.; Denikayev, B.Z.; Yemel'yanov, Yu. A.; Zhukov, Ya. L.; Lufkin, Yu. T.; Murzin, V.S.; Khomenko, G.S.

ORG: none

TITLE: Fluctuation in the number of particles in an electromagnetic shower at 110 BeV /Report, All-Union Conference on Cosmic Ray Physics held at Apatity 24-31 August 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 9, 1965, 1719-1721

TOPIC TAGS: secondary cosmic ray, cosmic ray shower, electron, photon, iron

ABSTRACT: Electron-photon showers were investigated in an ionization calorimeter consisting of the following components in order from the top: 13 cm C, 3 cm Fe, 8 trays of ionization chambers each followed by 5 cm Fe, 2 trays of chambers with no absorber between, 1 cm Fe, 160 g/cm<sup>2</sup> C, 3 cm Pb, and two trays of chambers separated and followed by 2 cm Pb. Showers initiated by cosmic ray particles were regarded as electron-photon showers if they produced ionization in at least one of the two uppermost trays and no ionization in the two trays beneath the large carbon absorber. Of 334 electron-photon showers thus identified, 152 had energies between 100 and 200 BeV. The ionization versus depth curves for these showers were normalized to a primary energy of 110

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L 27897-66

ACC NR: AP5024642

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BeV and averaged, and the average curve was compared with theoretical curves calculated for different assumed values of the radiation length in iron. Good agreement was obtained with the curve based on a radiation length of  $12.6 \text{ g/cm}^2$ . This value of the radiation length in iron was confirmed by comparing the observed depth of maximum shower development with calculated values. The fluctuation (ratio of the mean square to the square of the mean) in the number of particles in the showers as a function of depth was compared with the calculated curve of N.M.Gerasimova (Zh. eksperim. i teor. fiz., 43, 500 (1962); 44, 240 (1963)). Good agreement was found at depths less than 23 radiation units, but at greater depths the observed fluctuations were much less than the calculated ones. In conclusion, the authors express their gratitude to Zh.S. Takibayev for valuable discussions. Orig. has: 1 formula, 3 figures, and 1 table.

SUB CODE: NP/ SUBM DATE: 00/

ORIG REF: 004/ OTH REF: 000

Card 3/2 *CV*

115 89 1350

PROCESSES AND PROPERTIES INDEX

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*CA*

Action of lactic acid and lactates on nerve. E. K. Zhukov. *Trans. Physiol. Inst. Leningrad* 17, 1945. Frog nerve, after its cond. has been abolished by  $\text{CaCl}_2$ , does not recover for several hrs. Poisoning develops before loss of activity, for if the nerve is placed in Ringer soln. at the first sign of decreased cond., the progressive development of noncond. is not prevented. Na lactate restores excitability and cond. in poisoned nerve, but only if  $\text{Ca}$  is present. H. C. P. A.

ASPH-SLA METALLURGICAL LITERATURE CLASSIFICATION

RELAYS ONE ONE

RELAYS ONE ONE

ZHUKOV, E. K.

E. K. Zhukov: "Some regularities in the evolution of stimulation." (p. 435)

SO: Journal of General Biology Vol. 7, No. 6, 1944

L 27897-66 ENT(m)/FCC/T IJP(c)

ACC NR: AP5024642

SOURCE CODE: UR/0048/65/029/009/1719/1721

AUTHOR: Babayev, H.K.; Denikayev, R.Z.; Yemel'yanov, Yu. A.; Zrikov, Ye. I.; Lakin, Yu. T.; Murzin, V.S.; Khomenko, G.B.

14  
B

ORG: none

TITLE: Fluctuation in the number of particles in an electromagnetic shower at 110 BeV /Report, All-Union Conference on Cosmic Ray Physics held at Apatity 24-31 August 1964/

19

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 9, 1965, 1719-1721

TOPIC TAGS: secondary cosmic ray, cosmic ray shower, electron, photon, iron

ABSTRACT: Electron-photon showers were investigated in an ionization calorimeter consisting of the following components in order from the top: 13 cm C, 3 cm Fe, 8 trays of ionization chambers each followed by 5 cm Fe, 2 trays of chambers with no absorber between, 1 cm Fe, 160 g/cm<sup>2</sup> C, 3 cm Pb, and two trays of chambers separated and followed by 2 cm Pb. Showers initiated by cosmic ray particles were regarded as electron-photon showers if they produced ionization in at least one of the two uppermost trays and no ionization in the two trays beneath the large carbon absorber. Of 334 electron-photon showers thus identified, 152 had energies between 100 and 200 BeV. The ionization versus depth curves for these showers were normalized to a primary energy of 110

Card 1/2

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L 27897-66

ACC NR: AP5024642

BeV and averaged, and the average curve was compared with theoretical curves calculated for different assumed values of the radiation length in iron. Good agreement was obtained with the curve based on a radiation length of  $12.6 \text{ g/cm}^2$ . This value of the radiation length in iron was confirmed by comparing the observed depth of maximum shower development with calculated values. The fluctuation (ratio of the mean square to the square of the mean) in the number of particles in the showers as a function of depth was compared with the calculated curve of N.M.Gerasimova (Zh. eksperim. i teor. fiz., 43, 500 (1962); 44, 240 (1963)). Good agreement was found at depths less than 23 radiation units, but at greater depths the observed fluctuations were much less than the calculated ones. In conclusion, the authors express their gratitude to Zh.S. Takibayev for valuable discussions. Orig. art. has: 1 formula, 3 figures, and 1 table.

SUB CODE: NP/ SUBM DATE: 00/

ORIG REF: 004/ OTH REF: 000

Card 2/2 *CV*



ZHUKOV, Yavgeniy Ivanovich; STUPAKOVA, G.I., red.

[Handling a seagoing lifeboat] Upravlenie morskoi shliunkoi.  
Moskva, Transport, 1964. 139 p. (MIRA 1 & 3)

ZHUKOV, Ye.K., doktor biol.nauk

Theory of reinforcement (corroboration) and inhibition as developed  
by Vvedenskiĭ and Ukhtomskiĭ. Vest. LGU 2 no.7:29-42 J1 '47.

(MIRA 12:9)

(NERVOUS SYSTEM)

VERESHCHAGIN, S. M. and ZHUKOV, Ye. K.

"New Data on Enervation of Tonicity in Skeletal Muscles of a Frog." Zif. Zhur.,  
Vol. 33, No 3, 1947, p 335. Laboratory of Comparative Physiology, Leningrad Order  
of Lenin State University.

SO: U-4396

GULYAYEV, P.I.; ZHUKOV, E.K.,

[Electrophysiological methods of research] Metody elektrofiziologicheskikh issledovani. Izd-vo Leningradskogo gos. univ., 1948  
[Leningrad] 268 p. (MIRA 9:3)

(Electrophysiology)

ZHUKOV, Ye. K.

Mbr., Lab. Comparative Physiology, Physiology Inst., im. A. A. Ukhtomskiy, Leningrad  
Order Lenin State Univ. im. A. A. Zhdanov, 1948-49.

"The Problem of the Mechanism of Innervation and Tonic Contraction: I.,"

Fiziol. Zhur. SSSR, 34, No. 4, 1948;

"Tetanic and Tonic Muscular Fibers," Dok. AN, 62, No. 3, 1948;

"'Transition' Muscular Fibers," *ibid.*, No. 4, 1948;

"Small Components of Contraction in a Skeletal Muscle of a Frog,"

Fiziol. Zhur., 34, No. 2, 1948;

"The Correlation between the Tonelike Effects and the Small Components of Contraction,"

*ibid.*;

"Action Potentials of a Skeletal Muscle in Tonic Spasms," *ibid.*, 35, No. 1, 1949;

"Tetanic and Tonic Nerve-motor Units," *ibid.*

ZHUKOV, Ye. K.

Zhukov, Ye. K. "Nonlinear relationships in the activity of stimulated systems,"  
(In the survey by K. Zhukov), Vestnik Leningr. un-ta, 1948, No. 8, p. 29-47,  
- Bibliog.: p. 46-47.

SO: U-2888, 12 Feb. 53, (Letopis' Zhurnal 'nykh Statey, NO. 2, 1949).

ZHUKOV, Ye. K.

Lab Comparative Physiology, Physiol Inst im A.A. Ukhtomskiy, Leningrad State U

Correlation between the tonelike effects and the small components of contraction

So: Fiziologicheskii Zhurnal Vol 34, No 2, 1948

~~ZHUKIN, Ye. K.~~ with Vereshchagin  
ZHUKIN, Ye. K.

Lab Comparative Physiology, Physiology Inst im A.A.Ukhtomskiy, Leningrad State U

Small components of contraction in skeletal muscle of a frog

So: Fiziologicheskii Zhurnal Vol 34, No 2, 1948



ZHUKOV, YE. K.

16/19/77

USSR/Medicine - Nervous System, Physiology  
Medicine - Muscles, Physiology  
JUL/AUG 48

"The Problem of the Mechanism of Innervation and Tonic Contraction, I," Ye. K. Zhukov, Lab of Comparative Hygiene, Physiol Inst Imeni Acad A. A. Ukhomskiy, Leningrad State U, 97 pp

"Physiol Zhur SSSR" Vol XXIV, No 4

Reports experiments on muscles of frogs. A necessary condition for the manifestation of the phenomenon of tonic contractions is the passage of nervous impulses through the nerve plexus. What is the role

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USSR/Medicine - Nervous System, Physiology (Cont'd)

of this nerve plexus? How do the impulses alter as they pass through it? What neurotonic current can cause a pure tonic effect, free from tetanic reaction? These are the questions which the author attempts to answer. Submitted 15 Apr 1946.

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ZHUKOV, YE. K.

USSR/Medicine - Muscles, Physiology  
Medicine - Muscles, Contractions Sep 48

"Tetanic and Tonic Muscular Fibers," Ye. K. Zhukov, L. I. Leushina, Physiocl Inst, Leningrad State U, 4 pp

"Dok Ak Nauk SSSR" Vol LXII, No 3

Continues analysis of tonic contraction in solitary fibers isolated from frog muscles. Graphs show response of muscular fiber to direct irritation of induction current, response of tetanic fiber to direct current (0.2 and 0.5 V), response of tonic fiber to direct current (0.2 and 0.4 V).

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USSR/Medicine - Muscles, Physiology (Contd) Sep 48  
and response of tonic fiber to induction irritation repeated twice a second. Submitted by Acad I. A. Orbell, 17 Jul 48.

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ZHUKOV, Ye. K.

USSR/Medicine - Frogs  
Medicine - Cells, Physiology  
Oct 48

"Transition' Muscular Fibers," Ye. K. Zhukov,  
I. I. Loushina, 4 pp

"Dok Ak Nauk SSSR" Vol LXII, No 4

Discovered large number of "transition" muscular  
fibers in the m. ileotibularis of a frog. These  
are responsible for intermediate forms of con-  
traction between typical tetanic and tone con-  
tractions. One of these responds to irritation  
according to the "all-or-none" law, and in this  
respect corresponds to tetanic fibers. However,

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USSR/Medicine - Frogs (Contd) Oct 48

they differ from these fibers in many character-  
istics. Submitted by Acad L. A. Orbeli, 17 Jul 48.

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ZHUKOV, Ye.K.

Nature of the tonus of skeletal muscles. Nauch.biul. Len.un. no.24:40)-  
42 '49. (MLRA 10:3)

1. Laboratoriya sravnitel'noy fiziologii Fiziologicheskogo instituta.  
(MUSCLES)

Ленина, 201 кв. вилла Богомолова  
Lab Comparative Physiol, Physiol Inst im A A Ukhtomskiy, Leningrad State U

Tetanic and tonic neuromotor Units

So: Fiziologicheskiy Zhurnal Vol 35, No 1, 1949

ZHUKOV, Ye. A. WITH Vereshchagin

Lab Comparativr Physiol, Physiol Inst im. A.A. Ukhtomskiy, Leningrad State U

Action potentials of a skeletal muscle in tonic spasms.

So: Fiziologicheskij Zhurnal Vol 35, No 1, 1949

ZHUKOV, Ye.K.; DONTSOVA, Z.N.

Role of metabolism in manifestations of rhythm accommodation.  
Uch. zap. Len. un. no.99:238-251 '49. (MLRA 10:2)

1. Fiziologicheskiy institut imeni akademika A.A. Ukhtomskogo,  
Leningradskiy gosudarstvennyy ordena Lenina universitet.  
(HEART) (RHYTHM) (METABOLISM)

VERESHCHAGIN, S.M.; ZHUKOV, E.K.; LEUSHINA, L.I.

Role of parabolic stimulation in tone contraction of the striated muscle, *Fiziol.sh.SSSR* 36 no.6:673-678 Nov-Dec 50. (CLML 20:6)

1. Laboratory of Comparative Physiology of the Physiological Institute imeni A.A.Ukhtomskiy of Leningrad State University.



ZHUKOV, Ye.K.

N. E. Vvedenskii and his scientific works. Arkh. anat., Moskva 29 no.2:3-  
9 Mar-Apr 1952. (GLML 23:2)

ZHUKOV, Ye. K.; DUMOVA, A. M.; VRESHCHAGIN, S. M.

Central-neural mechanisms of contractures. *Fiziol. zh. SSSR*  
38 no. 2:217-225 Mar-Apr 1952. (GLML 22:3)

1. Physiological Institute imeni A. A. Ukhtomskiy, Leningrad State University, and the Department of Biology, Leningrad Medical Stomatological Institute.

UKHTOMSKIY, Aleksey Alekseyevich, akademik; AYRAPMT'YANTS, E.Sh., dotsent, redaktor; VASIL'YEV, L.L., professor, redaktor; VINOGRADOV, M.I., professor, redaktor; GOLIKOV, N.V., professor, redaktor; ZHUKOV, Ya.K., professor, redaktor; MEL'NIKOVA, G.G., redaktor; VOLOLAGINA, S.D., tekhnicheskiy redaktor

[Collected works] Sbranie sochinenii. Leningrad, Izd-vo Leningradskogo univ. Vol.4. [Sketch of the physiology of the nervous system (from the general course in physiology at the Leningrad State University) Ocherk fiziologii nervnoi sistemy. (Iz obshchego kursa fiziologii v Leningradskom gosudarstvennom universitete). 1954. 229 p. Vol.5. [Reviews and other articles] Obzornye i drugie stat'i. 1954. 231 p.]

(PHYSIOLOGY)

(MLBA 10:1)

FD-1331

Card 1/1 : Pub. 33-9/25

Author : Sharipova, R. R. and Zhukov, Ye. K.

Title : Concerning specialization of motor apparatus in mammals

Periodical : Fiziol. zhur. 4, 445-452, Jul/Aug 1954

Abstract : Neuro-muscular apparatus of m. quadriceps in cats and rabbits consists of two parts functioning in a different manner. The straight head fundamentally functions in the manner of tonus; the lateral head responds in the manner of tetanus to to excitation of its motor nerve. The difference between them is relative and apparently consists of degree of dissimilarity in their functional mobility. Their mobility is changeable to certain extent, offering possibility for re-formation of their activity. Graphs. Three Soviet and two non-Soviet references.

Institution : Chair of General Biology, Leningrad Medical Stomatological Institute

Submitted : July 9, 1953

ZHUKOV, Ye.K.; KOMAROVA, G.A.

Studying muscle contractions from the point of view of the unity of general and specific aspects in the physiological reaction of tissues to excitation. Uch.zap.Len.un. no.164:262-285 '54.

(MUSCLE)

(MLRA 10:3)

ZHUKOV, Ye.K.

Features outlined by Vvedenskii as applied to the tonic activity  
of the motor apparatus. Uch.zap.Len. un. no.176:86-107 '54.  
(MUSCLES)

(MIRA 9:9)

VVEDENSKIY, Nikolay Yevgen'yevich; VASIL'YEV, L.L., professor; redaktor;  
VINOGRADOV, M.I., professor, redaktor; VETYUKOV, I.A., dotsent,  
redaktor; GOLIKOV, N.V., professor, redaktor; ZHUKOV, Ye.K., pro-  
fessor; SHCHERBAKOVA, G.A., redaktor; IVANOV, V.V., tekhnicheskii  
redaktor.

[Complete works] Polnoe sobranie sochinenii. Leningrad, Izd-vo  
Leningradskogo gos. ordema Lenina univ.im.A.A.Zhdanova. Vol.6.  
[Supplements and annotations to Russian translations of text-  
books on physiology, 1886-1899] Dopolneniia i primechania k  
russkim perevodom uchebnykh po fiziologii, 1886-1889 gg. 1956.  
220 p. (Physiology) (MLRA 9:6)

ZHUKOV, Yevgraf Konstantinovich; ZHIRMUNSKIY, A.V., redaktor; RULEVA, M.S.,  
tekhnicheskiiy redaktor

[Studies on the tonus of skeletal muscles] Issledovaniia o tonuse  
skeletnykh myshts. [Seningrad] Gos. izd-vo med. lit-ry, Leningradskoe  
otd-nie, 1956. 241 p. (MIRA 9:10)  
(MUSCLES)



USSR / Human and Animal Physiology; Neuromuscular  
Physiology; T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41645.

Author : Zhukov, E. K.

Inst : Not Given.

Title : On the Second Optimum of the Skeletal Muscle.

Orig Pub: V sb.: Probl. sovrem. fiziol. nervn. i myshech.  
sisten. Tbilisi, AN GruzSSR, 1956, 437-444.

Abstract: Myographic tracings were taken of the semitendinous muscle of the frog, containing both tonic and tetanic fibres. Upon stimulation of the sciatic nerve with a current insufficient to excite the nerve fibres, the muscle produced a purely tetanic con-

Card 1/4

USSR / Human and Animal Physiology. Neuromuscular  
Physiology.

T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41645.

Abstract: traction, free of the tonic component. Upon increasing, somewhat, the current, this tetanic contraction faded into a pessimal relaxation. Upon further intensification of the current to a point of excitation of the tonic nerve fibres, the pessimal relaxation was replaced by a new contraction, now of tonic nature. This contraction differed from tetanus by the smoothness of its development and course, by lack of fatigability, by its plasticity and visible absence of pessimum upon increase of the stimulation. Atropine (1:2,000) suppressed, first, the second optimum of the contraction of the rectus abdominis muscle (also mixed), before the primary tetanic response. It follows that the secondary contraction

Card 2/4

101

USSR / Human and Animal Physiology. Neuromuscular  
Physiology

T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41645.

Abstract: of mixed muscles is really of the tonic type. Electrophysiological data also confirm the tonic nature of the second optimum of contraction of mixed muscles. A second optimum can also be observed in purely tetanic muscles. This secondary contraction, as distinct from the tonic contraction, began with a strong and brisk development which, however, the intensity of the stimulation remaining unchanged, passed into pessimal relaxation. A second optimum can be produced also by increasing the frequency of the stimulation. It is postulated that the origin of the second tetanic

Card 3/4

USSR / Human and Animal Physiology. Neuromuscular  
Physiology. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41645.

Abstract: optimum is entirely different from the second  
tonic optimum. -- F. I. Mumiadze.

Card 4/4

102

EXCERPTA MEDICA Sec.5 Vol.10/4 Gen.Pathology Apr 57

147a. ZHUKOVA E. K. \* Congenital myxoglobulosis of the large intestine and the appendix (Russian text) ARKH. PATOL. 1956, 18/5 (77-81) Illus. 4

Two cases in neonates are described. Case I: in a 2-day-old boy marked abdominal swelling necessitated the creation of an artificial anus in the sigmoid; spawn-like masses were discharged. Death occurred after 2 hours. Autopsy revealed megacolon, enlargement of the urachus and the bladder, atrophy of the left sternocleidomastoid muscle. Histological examination showed a marked swelling of the wall of the large intestine, especially of that of the caecum and the descending colon. The glands are described as club-shaped; there was marked swelling of goblet cells. Numerous spawn-like mucin granules were found in the appendix, the lumen of which was partly dilated and partly stenosed. Case II: there was atresia of the anus, for which an artificial anus had to be made. Meconium with spawn-like granules was discharged. The patient was soon discharged from the hospital. In this case, too, a congenital defective anlage was assumed to exist.

Brandt - Berlin

ZHUKOV, B.K.

Tensile and elastic properties of the tonic apparatus of skeletal muscles. *Fiziol. zh. SSSR* 42 no.1:95-101 Ja 56, (MIRA 9:5)

1. Laboratoriya sravnitel'noy fiziologii Fiziologicheskogo instituta imeni A.A. Ukhtomskogo pri Leningradskom universitete. (MUSCLES, physiology, adhesive-elastic properties of tonic fibers (Rus))

*Zukov E. K.*

USSR/ Human and Animal Physiology. Neuro-muscular Physiology. V

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27293.

Author : E.K. Zhukov

Inst : ~~XXXXXXXXXXXX~~

Title : Physiological Mechanisms of Muscle Contracture.

Orig Pub: In the collection: Ucheniye N.E. Vvedenskogo v klinich. praktike. Odessa, 1957, 29-30.

Abstract: The status of a device affording support and motility for patients with fractures of bones of the lower extremity is examined. The primary stimulus in the reflex mechanism of contracture is probably painful stimulation. Injecting a solution of novocaine into the region of the fracture or into the cavity of the knee joint reduced contracture. Immobilization of the extremity is the second essential'

Card : 1/2

75



USSR/Human and Animal Physiology. Neuromuscular Physiology. V

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27293.

stimulus to the development of contracture. The hind leg of a rabbit was invested in a circular plaster cast to serve as a model of immobilization contracture. In the first phase immobilization contracture is primarily the reflex hypertonus of the musculature arising in response to the cessation of the tactile and proprioceptive stimulation of the centers. In the second phase immobilization contracture is maintained basically at the expense of structural changes taking place reflexly in the joints and muscles of the extremity as a result of the disruption of normal movements and trophic disturbances.

Card : 2/2

ZHUKOV, Y.,K.; POPOVA, D.I.

Materials on the excitability and functional motility of tetanic and  
tonic muscle fibers. Nauk zap. Kyiv. un. 16 no.17:93-96 '57.

(MIRA 13:2)

(MUSCLE)

USSR/Human and Animal Physiology (Normal and Pathological).  
Nerve and Muscle Physiology.

T

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79912.

Author : Strelina, A.V ; Ivanov, I.I.; Zhukov, Ye. K.

Inst :

Title : On the Peculiarities of Contracted Proteins of the  
Skeletal Muscles of Fibers of Different Types.

Orig Pub: Fiziol. zh. SSSR, 1957, 43, No 4, 351-357.

Abstract: In the tonic cluster of the iliac-peroneus muscle  
of the frog, the tonic and phase working fibers  
were isolated. With a rate of stimulation of 5 pul/  
sec, the tetany fiber gave no unified contraction,  
but rather a series of discreet single contractions.  
In relation to ATP, muscle structures can be divided

Card : 1/3

USSR/Human and Animal Physiology (Normal and Pathological).  
Nerve and Muscle Physiology.

T

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79912.

into groups: 1 - appearance of significant activity (contractions of more than 40%); 2 - a more weak reaction to the ATP (contraction from 21 to 40%); 3 - muscle structures with a still less expressed reaction (contraction from 0 to 20%). This indicates the presence of a direct dependence between the character of the physiological contraction and the reaction of the fiber to ATP; i.e., between the content in the tissue of proteins of the actomyosin complex. In the lateral parts of the muscle, the maximal contraction in the tonic clusters achieved 67%. The basic mass of fibers reacts very actively to ATP, which is characteristic for the typical tetany fibers. Ten per cent of the tonic fibers react weakly to the ATP.

Card : 2/3

USSR/Human and Animal Physiology (Normal and Pathological).  
Nerve and Muscle Physiology.

T

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79912.

In the tests on mollusks (Anodonta and Unio), structures were isolated in the tonic and tetany clusters of the obductor muscle which correspond in thickness to a single fiber of the frog. In mollusks, a differentiated reaction of the muscle fibers to ATP was observed. Consequently, different contracted proteins suited for phase activity and for tunus were found here also.

Card : 3/3

VASIL'YEV, L.L.; GOLIKOV, N.V.; ZHUKOV, Ye.K.; KUNEVICH, V.G.

Iulii Mikhailovich Ufliand; on his 60th birthday. Fiziol.zhur. 43  
no.6:590-591 Je '57. (MIRA 10:12)

(UFLIAND, IULII MIKHAILOVICH, 1897- )

USSR / Human and Animal Physiology (Normal and Pathological).  
Neuromuscular Physiology.

T

Abs Jour : Rof Zhur - Biologiya, No 13, 1958, No. 60678

Author : Zhukov, Yo. K.

Inst : Not given

Title : The Phenomenon of Optimum and Pessimism in the Tonic  
Neuromuscular Apparatus

Orig Pub : Fiziol. zh. SSSR, 1957, 43, No 11, 1112-1116

Abstract : Tests were conducted on a neuromuscular preparation of frog (mixed semitendinosus, sciatic nerve). The neuro-motor tetanic units easily fell into a pessimism state. The strong stimulation with a frequency of 100 imp./sec. at first produced a rapid and high muscle contraction, which changed within 2 - 3 sec. into a pessimism slackening. The relaxation could be complete; regardless of the duration of the stimulation, the muscle

Card 1/3

112

Neuromuscular Physiology (Normal and Pathological).

T

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 60678

One was due to the fact that the tonically contracted fiber was in the state of a local unified excitement, which is distinguished by its slow reversibility; the second is the fact that the tonically contracted fiber has a higher viscosity. This deformation resistance due to the increased viscosity is also of slow reversibility. -- F. I. Mamladze

Card 3/3

113



ZHUKOV, Ya. K.

On the problem of the development of phase and tonic apparatus in  
phylogeny. Uch. zap. IGU no.222:86-93 '57.  
(MLRA 10:8)

1. laboratoriya evolyutsionnoy fiziologii Fiziologicheskogo insti-  
tuta Leningradskogo Gosudarstvennogo universiteta.  
(MUSCLES)

BIRYUKOV, Dmitriy Andreyevich, prof., otv. red.; VOYNO-YASHNETSKIY, A.V., red.;  
ZHUKOV, Ye.K., red.; KARAMYAN, A.I., red.; KREPS, Ye.M., red.;  
PAVLOV, B.V., red.; VEDIAYEV, F.P., red.; RULEVA, K.S., tekhn. red.

[Evolution of the functions of the nervous system] Evolutsia  
funktsii nervnoi sistemy. [Leningrad] Gos. izd-vo med. lit-ry,  
Leningr. otd-nie, 1958. 287 p.  
(MIRA 11:12)

1. Chlen-korrespondent Akademiya meditsinskikh nauk SSSR (for Biryukov).  
(NERVOUS SYSTEM)

ZHUKOV, Ye.K.; KROLENKO, S.A.

Dmitrii Nikolaevich Nasonov; obituary. Vest. LGU 13 no.15:158-160  
'58.

(Nasonov, Dmitrii Nikolaevich, 1894-1957) (MIRA 11:9)

ZHUKOV, Ye.K.

Structural and enzymo-chemical principles of contractility and  
irritation. *Fiziol.sbur.* '45 no.11:1406-1407 N '59.

(MUSCLES physiol.)

(MIRA 13:5)

ZHUKOV, Ye.K., prof., doktor biolog.nauk, obshchiy red.; KHOTYANOV, G.B.,  
red.; DOTSENKO, A.A., tekhn.red.

[Human physiology] Fiziologiya cheloveka. Izd.2. Moskva, Gos.  
izd-vo "Fizkul'tura i sport," 1959. 606 p. (MIRA 13:4)  
(PHYSIOLOGY)

ZHUKOVA, Ye.K. (Moskva)

Pathological anatomy of Pneumocystis carinii pneumonia associated with interstitial lymphoplasmocytic pneumonia in young children and infants. *Pediatrics* 37 no.9:25-30 8 '59. (MIRA 13:2)

1. Iz patologoanatomicheskogo otdeleniya (zaveduyushchiy - starshiy nauchnyy sotrudnik Ye.N. Ter-Grigoreva) Klinicheskoy detskoy bol'nitsy No.9 imeni Dzerzhinskogo (glavnyy vrach A.N. Kudryashova). (PNEUMONIA INTERSTITIAL PLASMA CELL pathol.)

ZHUKOV, Ye.K.; ZAKHAR'YANTS, Yu.Z.

Synchronized rhythm of action potentials during muscular activity in  
man. Fiziol.zhur. 45 no.9:1053-1059 S '99. (MIRA 13:1)

1. Institut Fizicheskoy kul'tury im. P.F. Lesgafa, Leningrad.  
(ELECTROMYOGRAPHY)

UFLYAND, Yu.M.; VASIL'YEV, L.D.; DELOV, V.Ye.; ZHUKOV, Ye.K.

Professor I.M. Vul; obituary. Fiziol.zhur. 45 no.12:1513 D '59.

(MIRA 13:4)

(VUL, IL'IA MOISEVICH, 1892-1958)



ZHUKOV, Ye. K.

Review of D.N. Nasonov's "Local protoplasm reaction and spreading  
excitation." *TSitologiya* 2 no.1:99-100 Ja-F '60. (MIRA 13:5)  
(PROTOPLASM) (NERVOUS SYSTEM) (NASONOV, D.N.)

ZHUKOV, Ye.K.

"Physiological methods in clinical practice." Reviewed by E.K.  
Zhukov. Fiziol.zhur. 46 no.2:254-256 F '60. (MIRA 14:5)  
(PHYSIOLOGY) (DIAGNOSIS)

ZHUKOV, Ye.K.

Mechanisms of the tonus of the skeletal muscles in turtles. Nerv.  
sist. no. 2:89-98 '60. (MIRA 14:4)

(TURTLES) (MUSCLES)

ZHUKOV, Ye.K.; ZAKHAR'YANTS, Yu.Z.

Electrophysiological data on some mechanisms for overcoming fatigue.  
Fiziol. Zhur. 46 no. 7:819-827 J1 '60. (MIRA 13:8)

1. From the Lesgaft Institute of Physical Culture, Leningrad.  
(FATIGUE) (ELECTROMYOGRAPHY)

ZHUKOV, Ye.K. (Leningrad); KOSSOVSKAYA, E.B. (Leningrad)

Role of A.N. Krestovnikov in the development of sports physiology,  
on his 75th birthday. Fiziol. Zhur. 46 no. 7:888-893 J1 '60.  
(MIRA 13:8)

(KRESTOVNIKOV, ALEKSEI NIKOLAEVICH, 1885-)

POLYANSKIY, Yu.I., otv.red.; ALEKSANDROV, V.Ye., red.; GINETSINSKIY, A.G., red.; ZHUKOV, Ye.K., red.; ZHIRMUNSKIY, A.V., red.; KARASIK, V.M., red.; KIRO, M.B., red.; LOZINA-LOZINSKIY, L.K., red.; NIKOL'SKIY, N.N., red.; PARIBOK, V.P., red.; ROMANOV, S.N., red.; SVETLOV, P.G., red.; SOKOLOV, I.I., red.; TROSHIN, A.S., red.; USHAKOV, B.P., red.; SHERSTOBITOV, O.Ye., red. izd-va; PEVZNER, R.S., tekhn.red.

[Problems in cytology and general physiology] Voprosy tsitologii i obshchei fiziologii. Moskva, Izd-vo Akad.nauk SSSR, 1960.  
398 p. (MIRA 14:1)

1. Akademiya nauk SSSR. Institut tsitologii. 2. Institut evolyutsionnoy fiziologii im. I.M.Sechenova AN SSSR, Leningrad (for Ginetainskiy). 3. Fiziologicheskii institut im. A.A.Ukhtomskogo pri Leningradskom universitete im. A.A.Zhdanova (for Zhukov). 4. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR, Leningrad (for Karasik). 5. Institut tsitologii AN SSSR, Leningrad (for Kiro, Paribok, Sokolov). 6. Institut fiziologii im. I.P.Pavlova AN SSSR, Leningrad (for Romanov). 7. Laboratoriya embriologii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad (for Svetlov). 8. Laboratoriya fiziologii kletki Instituta tsitologii AN SSSR, Leningrad (for Troshin). 9. Laboratoriya sravnitel'noy tsitologii Instituta tsitologii AN SSSR, Leningrad (for Ushakov).  
(CYTOLOGY) (PHYSIOLOGY)

BEREZINA, Mariya Pavlovna; VASILEVSKAYA, Natal'ya Yefimovna; AVERBAKH, Mikhail Solomonovich; VETYUKOV, Ivan Alekseyevich, dots.; GOLIKOV, Nikolay Vasil'yevich; GULYAYEV, Pavel Ivanovich; ZHUKOV, Yevgraf Konstantinovich; LATMANIZOVA, Lyudmila Vladimirovna; MAKAROV, Petr Osipovich; NIKITINA, Iya Pavlovna; SPERANSKAYA, Yekaterina Nikolayevna; VASIL'YEV, L.L., prof., red.; PEREDEL'SKAYA, N.M., red.; PARSADANOVA, K.G., red. izd-va; GRIGOR-CHUK, L.A., tekhn. red.

[Comprehensive laboratory manual of human and animal physiology] Bol'shoi praktikum po fiziologii cheloveka i zhiivotnykh. Izd.2., ispr. 1 dop. Moskva, Gos. izd-vo "Vyshaya shkola," 1961. 674 p. (MIRA 14:8)

(PHYSIOLOGY--LABORATORY MANUALS)

ZHUKOV, Ye.K.; KATSNEL'SON, Z.S.

"Problems of cytology and protistology; a collection of works."  
Reviewed by E.K.Zhukov, Z.S.Katsnel'son. TSitologiya 3 no.3:366-  
370 My-Je '61. (MIRA 14:6)  
(CYTOLOGY) (PROTOZOA)



ZHUKOV, Ye.K.; ZAKHAR'YANTS, Yu.Z.

Physiological mechanisms of volitional actions. Vop. psikhol. 7  
no.6:127-135 N-D '61. (MIRA 15:1)

1. Kafedra fiziologii Instituta fizicheskoy kul'tury imeni P.F.  
Lesgafta, Leningrad.

(Movement, Psychology of)

VASNEV, M.S.; ZHUKOV, Ye.K.

Industrial strontium carbonate is an effective substitute for scarce raw materials. Stek. i ker. 18 no. 7:33-34 J1 '61. (MIRA 14:7)  
(Strontium carbonates)

SOKOLOV, P.N.; ZHUKOV, Ya.K.; ZAKHAR'YANTS, Yu.Z.

Comparison of the skeletal peculiarities of the lower extremities  
in athletes with the electrophysiological properties of the muscles.  
Arkh. anat. gist. i embr. 40 no.2:42-48 F '61. (MIRA 14:5)

1. Kafedra anatomii (zav. - prof. A.A.Smirnov) i kafedra fiziologii  
(zav. - prof. Ye.K.Zhukov) Gosudarstvennogo ordena Lenina i ordena  
Krasnogo Znameni instituta fizicheskoy kul'tury imeni P.F.Lesgafta.  
Adres avtora: Leningrad, ul. S.Perovskoy, 1/2, kv.80).  
(EXTREMITIES, LOWER) (ELECTROMIOGRAPHY)

ZHUKOV, YE.K.

"Local excitation as the basis of activity of slow tonic muscular fibres."

Report submitted, but not presented at the 22nd International  
Congress of Physiological Sciences.  
Leiden, the Netherlands 10-17 Sep 1962