

Phase equilibria and volume ...

S/076/61/035/011/008/013
B110/B147

ASSOCIATION: Gosudarstvennyy institut azotnoy promyshlennosti
(State Institute of the Nitrogen Industry)

SUBMITTED: January 25, 1960

Fig. 1. Glass flask provided with metal valve.

Legend to Table 1: (1) molar portion of acetylene; (2) liquid phase;
(3) gaseous phase; *моль*: mole.

Legend to Table 2: (1) molar portion of acetylene; (2) maximum contact.

Legend to Fig. 4: (1) molar portion of acetylene, N_2 .

Fig. 5. Liquid-gas equilibrium in the acetylene - ammonia system.

Legend: (1) 15°C; (2) 25°C; (3) 36°C; (4) 45°C; (5) 55°C; (6) 65°C;
(A) molar portion of acetylene.

Card 3 *17*

LEBEDEVA, Yevdokiya Sergeyevna, starshiy agronom; SELEZNEV, N.G., red.;
PULIN, L.I., tekhn. red.

[For an income of 2 million rubles] Za 2 milliona rublei dokhoda.
Tula, Tul'skoe knizhnoe izd-vo, 1960. 15 p. (MIRA 14:10)

1. Kolkhoz im. Dimitrova Bogoroditskogo rayona Tul'skoy oblasti (for
Lebedeva).

(Tula Province—Collective farms)

LEEDEVA, Ye.S.; KHODEYEVA, S.M.

Phase equilibria and volume relationships in the system acetylene-
ammonia under pressure. Zhur.fizkhim. 35 no.11:2602-2607 N
'61. (MIRA 14:12)

1. Gosudarstvennyy institut azotnoy promyshlennosti.
(Acetylene)
(Ammonia)
(Phase rule and equilibrium)

LEBEDEVA, Ye. V. Cand Agr Sci -- (diss) "Application of electrical sources of
radiation in ^{the}winter forcing of flower ^{plants} ~~groups~~." Mos, 1959. 18 pp (Mos Order of
Lenin Agr ■ Acad im K. A. Timiryazev), 110 copies (KL, 46-59, 139)

ACCESSION NR: AT4037689

S/2865/64/003/000/0198/0203

AUTHOR: Lebedeva, Ye. V.

TITLE: Characteristics of some artificial substrata for use in closed ecological systems

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy* kosmicheskoy biologii, v. 3, 1964, 198-203

TOPIC TAGS: closed ecological system, life support, hydroponics, tomato, beet, carrot, manned space flight

ABSTRACT: Four artificial substances, vermiculite, penoshamote, ceramsite, and perlite, have been tested for their potential use as substrata for hydroponic growing of plants in spaceships. These substances are well known modern structural materials and possess high porosity and low specific weight. Their light weight and porosity enable these substances to hold a large amount of moisture, making them highly desirable as substrata. In order to evaluate the biological properties of these substrata, cabbages, beets, carrots, and tomatoes were grown hydroponically from seed on them from May to September 1962. Of the substances thus tested as substrata, vermiculite gave the best results. Plants grown on vermiculite

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produced leaves, roots, stems and fruit whose weight was two to three times that of plants grown on other substrata. Since it is intended to use these substrata for growing higher plants in closed ecological systems for prolonged space flights, further research into the biological and chemical properties of artificial substrata is recommended.

ASSOCIATION: none

SUBMITTED: 00

NO REF SOV: 004

ENCL: 00

OTHER: 000

SUB CODE: PH, LS

Card 2/2

ACC NR: AT6036547

SOURCE CODE: UR/0000/66/000/000/0145/0146

AUTHOR: Dadykin, V. P.; Lebedeva, Ye. V.; Nilovskaya, N. T.; Tsvetkova, I. V.
ORG: none

TITLE: Experimental investigation of the higher plant in a closed ecological system
[Paper presented at the Conference on Problems of Space Medicine held in Moscow from
24 to 27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy
kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii,
Moscow, 1966, 145-146

TOPIC TAGS: life support system, closed ecological system, plant ecology, space
nutrition

ABSTRACT: Calculations have been made for one of the variants of a higher-plant
link for a closed ecological system. The input and output of the link are
determined in respect to the basic elements. Experiments confirmed
that it was possible to obtain a crop of the selected plants which exceeds
the designed productivity of a given enclosure.

A conveyor system for continuously overlapping crops of the selected
plants was worked out and tested experimentally. This makes it possible
to have a continuous output of edible biomass in accordance with a set
schedule. It was demonstrated experimentally that a continuous harvest-
ing of the crop was possible without changing the area of the assimilating

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ACC NR: AT6036547

surface of the plants substantially, thus assuring continuous air regeneration.

Further experiments determined the optimum light requirements for certain selected plant cultures. Gas exchange characteristics (CO_2 and O_2) for various parts of the day and various ages of the plants were worked out for a series of selected cultures. Optimal concentrations of CO_2 in relation to various light intensities were determined.

The proper nutrient solutions for replacing chemicals used up by the plants were theoretically calculated and experimentally confirmed for a whole series of cultures. The experimental testing and determination of a series of characteristics of this model plant link simplifies the insertion of this higher-plant link into the entire closed ecological system. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: 00May66

Card 2/2

ACC NR: AT6036611

SOURCE CODE: UR/0000/66/000/000/0253/0253

AUTHOR: Lebedeva, Ye. V.; Dmitriyeva, L. V.; Malinovskiy, A. V.

ORG: none

TITLE: A conveyor system in the higher plant ecosystem link. [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24-27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 253

TOPIC TAGS: life support system, closed ecological system, plant physiology, aeroponics, space nutrition, space food

ABSTRACT:

In developing a higher-plant link for a closed ecological system, the main requirement is the assurance of a constant supply of vegetable food, oxygen, and water to man. This problem can be solved by the creation of a conveyor system of growing plants of different ages.

Depending on the cultivation method adopted (aeroponics or hydroponics), the conveyor system is based on the principle of movable nests for fixing the plants or on a stationary planting without changing the distance between plants while they grow. In the first system (aeroponics) an

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ACC NR: AT6036611

illuminated seeding area is used more effectively than in the second system (hydroponics).

Experiments with the conveyor system using hydroponics have indicated that it is possible to obtain a continuous supply of fresh vegetables in amounts required by daily rations, that the nutritional value of vegetables obtained in a conveyor system corresponds to requirements as far as vitamin content is concerned, and that it is possible to greatly increase the productivity of plants in a conveyor system by regulating the basic parameters of the ecological complex (temperature, humidity, illumination, and root and aerial feeding).

[W. A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: 00May66

Card 2/2

ACC NR: AP6036958

(A, M)

SOURCE CODE: UR/0181/66/008/011/3204/3207

AUTHOR: Lebedeva, Ye. V.; Pil'shchikov, A. I.; Sedletskaya, N. S.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Instability of spin waves in ferrites in the presence of domain structure

SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3204-3207

TJ. TC TAGS: spin wave, ferrite, magnetic domain structure

ABSTRACT: The effect of domain structure on the conditions of parametric excitation of spin waves was studied in polycrystalline samples of MgMn- and MgCr-ferrites and MgMn-ferrite single crystals. The instability threshold of spin waves was studied in the range of constant fields in the presence of which the domain structure exists. It is shown that the nature of the dependence of the threshold field h_{thr} on the constant field H in the range of fields insufficient for saturation is determined by the magnitude of the magnetization and the frequency of the exciting field. It is postulated that in the range of weak fields, the course of the dependence of h_{thr} on H is determined by the proximity of the frequency of the exciting field to the frequency of natural ferromagnetic resonance, and in the range of existence of lamellar domain structure, it is determined by the change in the orientation of the magnetization vector as H changes due to rotational processes. In conclusion, authors are deeply grate-

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ACC NR: AP6036958

ful to I. I. Sil'vestrovich and V. A. Krasnova for supplying the samples and also to O. K. Besedina and I. B. Krynetskaya for participating in the measurements. Orig. art. has: 4 figures.

SUB CODE: 2C/ SUBM DATE: 11Mar66/ OTH REF: '002

Card 2/2

ACC NR: AT7011647

SOURCE CODE: UR/0000/66/000/000/0171/0172

AUTHOR: Lebedeva, Ye. V.; Milovskaya, N. T.; Dadykin, V. P.

ORG: none

TITLE: Principles and methods of utilizing high plants in-life-support systems

SOURCE: International Astronautical Congress. 17th, Madrid, 1966. Doklady. no. 9. 1966. Printsipy i metody isopol'zovaniya vysshikh rasteniy v zamknutykh sistemakh zhizneobespecheniya, 171-172

TOPIC TAGS: higher plant, life support system, regeneration, closed ecology system

ABSTRACT:

The plants chosen from the more than 2500 domesticated species of higher plants on Earth for air, water, and food regeneration in closed ecosystems should meet the following specifications: 1) should yield maximum food value; 2) should produce no metabolites deleterious to man or other plants; 3) should flourish in an environment suited to man; 4) should be familiar to man. Various models of possible sets of

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ACC NR: AT7011647

higher plants for closed ecosystems were studied and their input-output parameters determined. An example of such a set, familiar to Russians, is: potatoes, white cabbage, carrots, beets, tomatoes, radishes, and Chinese cabbage. An "acreage" of 15-16 m² using these plants should yield about 1500 g of edible vegetables per day and provide 60% of the daily carbohydrate and 100% of the daily mineral requirement for one man. This many plants would also provide about 90% of the daily oxygen requirement. This diet could be supplemented with synthetic or preserved foods (animal proteins and fats). Supplementary oxygen could come from storage or from a small chlorella cultivator. In experimental trials, this set of plants was hydroponically cultivated and exceeded the calculated yield: cabbage yielded 22--24 kg/m²; carrots, 30 kg/m²; tomatoes, 25 kg/m²; radish, 10--12 kg/m²; and Chinese cabbage, 22--24 kg/m². Potatoes were the least efficient, yielding only 5--6 kg/m². A continuous cultivation system, containing plants of all ages and based on types affording frequent harvest and continued growth, ensures a constant area under cultivation and a steady yield of food, water, and O₂; eliminates the need for food storage; and greatly increases the efficiency of cultivation and

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ACC NR: AT7011647

illumination. A conveyor cultivator was built and tested. With a cultivation area of 5 m², it yielded 1 kg of edible foodstuff, over 10 liters of distilled water, and almost 150 liters of O₂ per day for 100 days. Diurnal and life cycles of photosynthesis and respiration intensity with illumination of various wavelengths and intensities from 50 to 2000 w/m² were determined for various atmospheres (pCO₂ = 0.03 to 1.5%; pO₂ = 14 to 48%), and optimum atmospheric parameters were established. These studies have furnished basic data for designing automatic control systems for the higher plant link in closed ecosystems. [ATD PRESS: 5093-F]

SUB CODE: 06 / SUBM DATE: none

Card 3/3

L-24705-66 EWT(m)/EWP(j) IJP(c) RM

ACC NR: AP6009534 (A) SOURCE CODE: UR/0413/66/000/005/0069/0069

INVENTOR: Kirilova, E. I.; Glagoleva, Yu. A.; Larin, N. A.;
Matveyeva, Ye. N.; Lebedeva, Ye. Ya.; Smirnova, V. S.

27
B

ORG: none

TITLE: Method for photostabilization of polystyrene. Class 39,
No. 179467 [announced by the State Scientific Research Institute of
Polymerized Plastics and Experimental Plant (Gosudarstvennyy nauchno-
issledovatel'skiy institut polimerizatsionnykh plastmass i eksperi-
mentalnyy zavod)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 5,
1966, 69

TOPIC TAGS: polystyrene, light stabilization, photostabilization,
light stabilizer.

ABSTRACT: An Author Certificate has been issued describing a method of
light stabilization of polystyrene by introducing a light stabilizer
into it. To extend the variety of light stabilizers 2-hydroxy-4-v-
butoxy-4'-chlorobenzophenone is suggested for use as the light
stabilizer.

[NT]

SUB CODE: 11/
Card 1/1 F(1)

SUBM DATE: 10Jun64/
UDC: 678.048.5:746.22

L 6419-66 EWT(m)/EWA(d)/EWP(t)/EWP(z)/EWP(b) IJP(c) JD
ACC NR: AP5027410 SOURCE CODE: UR/0181/65/007/011/3320/3325

AUTHOR: Pil'shchikov, A. I.; Lebedeva, Ye. V.

ORG: Moscow State University (Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova)

TITLE: Parametric excitation of spin waves in polycrystalline specimens of MgMn ferrites

SOURCE: Fizika tverdogo tela, v. 7, no. 11, 1965, 3320-3325

TOPIC TAGS: ferrite, polycrystal, spin wave, magnetic field

ABSTRACT: The authors study polycrystalline ferrites with regard to the effect of their structural and magnetic characteristics on the instability of spin waves. The method of parallel pumping was used for determining the relationship between the SHF threshold field and the steady magnetic field in studying parametric excitation of spin waves in specimens with various percent contents of MgO, MnO and F₂O₃. A number of specimens were studied with wide variations in grain size, magnetization and ΔH. The measurements show that the threshold fields and spin-wave losses are

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090: 2038

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ACC NR: AP5027410

3

independent of the structure of the polycrystal in specimens with close to stoichiometric composition in steady fields where the specimen can be magnetized to saturation. It is assumed that this is because the excited spin waves are shorter than the crystallite dimensions. Measurements in fields too low for saturation show that the domain structure in specimens with high magnetization causes a considerable reduction in the threshold fields. In conclusion, the authors thank A. A. Shilova for participation in the experiment, and also I. I. Sil'vestrovich and L. A. Rodnova for furnishing the specimens and data on their microstructure and static characteristics. Orig. art. has: 4 figures, 1 table.

SUB CODE: SS,EM/ SUBM DATE: 21Jan64/ ORIG REF: 011/ OTH REF: 001

PC

Card 2/2

KVASHNIN, S., arkhitektor; LEBEDEVA, Yu., arkhitektor

New designs of houses for experimental construction. Stroi. i
arkhit. 8 no.6:14-15 Je '60. (MIRA 13:6)
(Apartment houses)

LEBEDEVA, Yu., starshiy tovaroved

Fountain pens should be convenient and attractive. Sov.torg. 35
no.1:45-46 Ja '62. (MIRA 15:1)

1. Glavnoye upravleniye po trgovle kul'ttovarami i sporttovarami
Ministerstva trgovli RSFSR.

(Pens)

LEBEDEVA, Yu.

Simplest fabric mask against dust. Voen. znan. 38 no.6:35

Je '62.

(MIRA 15:6)

(Gas masks)

LEBEDEVA, Yu.

On the trace of a radioactive cloud. Voen. znan. 38 no.9:34-35
§ 162. (MIRA 15:9)
(Radioactive fallout)(Radioactivity--Safety measures)

LEBEDEVA, Yulia Aleksandrovna; ZUBKIN, Aleksandr Stepanovich; KANEVSKAYA,
M.D., redaktor; KARYAKINA, M.S., tekhnicheskiy redaktor.

[What one should know about poisonous and radioactive substances]
Shto nado znat' ob otravliaiushchikh i radioaktivnykh veshchestvakh.
Moskva, Izd-vo DOSAAF, 1956. 62 p. (MIRA 9:6)
(Chemical warfare) (Radioactivity)

26.02.1957, 1/11

Kolkhozniku o MPVO (To the Collective Farm Worker Concerning Local Air Defense), by Yu. A. Lebedeva and L. P. Shesterikova, edited by V. D. Moskaleva, Moscow DOSAAF, 1956, 128 pp (From a standard card of the USSR State Library imeni V. I. Lenin, No 358.5)

"A popular discussion of chemical, bacteriological, and atomic weapons, and other methods of attack and destruction from the air included in the armament of the imperialist armies. Defensive measures and methods for liquidating the consequences of the attack are also discussed. The organization and problems of local air defense (MPVO) in the rural community are described. Basic rules for the behavior of the populace under threat of air attack are given." (U)

26.02.1957

Левбедева, Юлия Александровна

LEBEDEVA, Yuliya Aleksandrovna; SEREBRYAKOV, Vladimir Aleksandrovich;
KANEVSKAYA, M.E., red.; GHERASIMOVA, V.N., tekhn.red.

[Bacteriological weapons of foreign armies and protection against
them] Bakteriologicheskoe oruzhie inostrannykh armii i zashchita ot
nego. Moskva, Izd-vo DCSAAF, 1957. 119 p. (MIRA 11:2)
(Bacterial warfare)

LEBEDEVA, Yu. A.

ZAPOL'SKIY, G.N.; SHESTERIKOVA, L.I.; NARYSHKIN, V.A.; LEBEDEVA, Yu.A., red.;
KARYAKINA, M.S., tekhn. red.

[Means and methods of civil air defense; an album of visual aids for units of the Volunteer Society for Assistance to Army, Air Force, and Navy studying civil air defense] Sredstva i sposoby protivovozdushnoi oborony naseleniia; al'bom nagliadnykh posobii dlia kruzhkov DOSAAF, izuchaiushchikh protivovozdushnuiu oboronu. Red. IU.A. Lebedeva. Khudozh. M.P. Tumanov. Moskva, Izd-vo DOSAAF, 1958. 39 p. (MIRA 11:7)

(Air defenses)

BABKIN, I.A.; BOGOLYUBSKIY, G.N.; BURLINOV, I.I.; VOZNESENSKIY, V.V.;
DANILYUK, V.S.; ZAPOL'SKIY, G.N.; ZUBKIN, A.S.; IL'YASHEV, A.S.;
KIPRIYAN, K.M.; KONDRAT'YEV, P.V.; KORABLEV, M.D.; LEBEDEVA,
Yu.A.; MAKAROV, Yu.K.; MIROSHNIKOV, I.P.; NOVICHENKO, I.P.;
POPOV, A.V.; SEREBRYAKOV, V.A.; KANEVSKAYA, M.D., red.; ANDRIANOV,
B.I., tekhn.red.

[Protecting the public from present-day means of destruction;
a textbook for organizations of the All-Union Voluntary Society for
the Promotion of the Army, Aviation, and Navy] Zashchita naselenia
ot sovremennykh sredstv porazheniya; uchebnoe posobie dlia organi-
zatsii Vsesoyuznogo dobrovol'nogo obshchestva soдейstviya armii,
aviatsii i flotu. Moskva, Izd-vo DOSAAF, 1958. 334 p. (MIRA 12/4)
(Civil defense)

KORABLEV, Mikhail Dmitriyevich; LEBEDEVA, Yuliya Aleksandrovna; SHESTERIKOVA, Lyudmila Pavlovna. ~~Prinimeli uchastiye: MIROSHNIKOV, P.P.; red.;~~
SEROV, M.F.; NIKIFOROV, A.M.. KANEVSKAYA, M.D., red.; ANDRIANOV, B.I., tekhn.red.

[Local antiaircraft defense in rural districts] MPVO v sel'skoi mestnosti. Pod red. I.P.Miroshnikova. Moskva, Izd-vo DOSAAF, 1959. 198 p. (MIRA 12:12)

1. Glavnyy agronom Glavnoy gosinspektsii po karantinu i zashchite rasteniy Ministerstva sel'skogo khozyaystva SSSR (for Nikiforov). (Air defenses)

LEBEDEVA, Yuliya Aleksandrovna; MOSKALEV, Vladimir Dem'yanovich;
CHUKOV, Sergey Vasil'yevich; CHUMAKOV, Viktor Ivanovich;
GORCHAKOV, A.D., polkovnik, red.; KUZ'MIN, I.F., tekhn.red.

[How to defend oneself from a weapon of mass destruction]
Kak zashchishchat'sia ot oruzhiia massovogo porazheniia.
Moskva, Voen.izd-vo M-va oborony SSSR, 1962. 29 p.

(MIRA 15:4)

1. Russia (1923- U.S.S.R.) Shtab grazhdanskoy oborony.
(Civil defense)

LEHEDEVA, Yu.A.; MASKALOV, V.D.; CHUKOV, S.V.; CHUMAKOV, V.I.;
KAPLANAS, O. [translator]; MEDONIS, A., red.

[Protection against mass destruction weapons] Kaip saugotis
nuo masinio naikinimo ginklo. Vilnius, Valstybine politines
ir mokslines literaturos leidykla, 1962. 31 p. (MIRA 16:5)
(Civil defense)

BOGOLYUBSKIY, G.N.; BURLINOV, I.I.; VINOGRADOV, L.V.; VOZNESENSKIY,
V.V.; DANILYUK, V.S.; ZUBKIN, A.S.; IL'YASHEV, A.S.; KORABLEV,
M.D.; LEPEDEVA, Yu.A.; MAKAROV, Yu.K.; MIROSHNIKOV, I.P.;
NOVICHENKO, I.P.; POPOV, A.V.; SEREBRAKOV, V.A.; VARENNIKOV,
I.S., red.; GODINER, F.Ye., red.; SORKIN, M.Z., tekhn. red.

[Protecting the population from present-day means of
destruction] Zashchita naselenia ot sovremennykh sredstv po-
razheniia; uchebnoe posobie dlia organizatsii DOSAAF. Pod ob-
shchui red. I.S.Varennikova i L.V.Vinogradova. Izd.2., perer.
i dop. Moskva, Izd-vo DOSAAF, 1962. 254 p. (MIRA 16:4)
(Civil defense)

I 10343-63

Pa-4 K

EWA(b)/HPF(n)-2/EWT(m)/BDS/ES(b)
PHASE I BOOK EXPLOITATION

AFFTC/APGC/ASD/SSD

Pu-4/

SOV/6423

70

Lebedev, Yu. A., V. D. Moskalev, S. V. Chukov, and V. I. Chumakov

Kak zashchishchat'sya ot oruzhiya massovogo porazheniya (How to
Protect Yourself From Weapons of Mass Contamination) Moscow,
Izd-vo DOSAAF, 1962. 30 p. No. of copies printed not given.

Sponsoring Agency: Shtab grazhdanskoy oborony.

Ed.: A. A. Vasil'yev; Tech. Ed.: G. I. Blazhenkova.

PURPOSE: This booklet is intended to acquaint the general reader with
basic civil defense procedures, and is recommended for "thorough
study."

COVERAGE: This booklet briefly describes the effect of mass destruc-
tion weapons, i.e., nuclear, chemical, and bacteriological, and
lists measures for protecting the population against their effects.

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I 10343-63
How to Protect Yourself From Weapons (Cont.)
TABLE OF CONTENTS:

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AVAILABLE: Library of Congress (UA926.R8, 1962a)

SUBJECT: Civil Defense

ch/llb
Card 2/2

AD/dk/tem
8-1-63

S/032/60/026/010/034/035
B016/B054

AUTHOR: Lebedeva, Yu. I., Chief

TITLE: Central Laboratory of the Yaroslavl' State Works SK

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 10,
pp. 1188 - 1189

TEXT: The author reports on a great extension of subjects of scientific research work at the Central Laboratory of the Yaroslavskiy gosudarstvennyy zavod SK (Yaroslavl' State Works of Synthetic Rubber). The following fields of work are mentioned: 1) Improvement of divinyl synthesis from alcohol (method by S. V. Lebedev, Academician). The results of this improvement were introduced at the author's works, and made it possible to save 10 million rubles a year. 2) Increase in quality of copolymeric rubber- and latex types. Conditions for the production of soft rubbers were determined at the author's laboratory. These rubbers render mechanical plastification superfluous, and improve the properties of divinyl nitrile rubbers. The author's laboratory cooperates with special institutes of the synthetic rubber industry which are studying the

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Central Laboratory of the Yaroslavl' State Works SK

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B016/B054

synthesis of new rubbers; these rubbers are said to have better properties than natural rubber. Copolymers of divinyl with acrylic acid nitrile, with methyl-vinyl pyridine, and other substances were synthesized in the author's laboratory. These copolymers have specific properties, and are now being tested by special institutes. Further, the author mentions the experimental apparatus available in her laboratory. An apparatus for the acoustic analysis of the oxygen content in nitrogen for any concentration range was installed and put into operation in cooperation with the Yaroslavskiy tekhnologicheskii institut (Yaroslavl' Institute of Technology). It delivers results within 1-1.5 min. Besides, the chromatographic method of determining the composition of monomers, the spectrometric method of determining the microstructure of polymers, and the photoelectrocolorimetric method of determining the concentration of iron and Nekl, are being applied in the Central Laboratory. The staff of the Central Laboratory was nearly doubled. The author mentions the following difficulties: Some experimental apparatus of semioperational type, equipment, reagents, heat-proof vessels are lacking; laboratory furniture is hard to procure. She suggests to adapt the salaries and allowances of laboratory staff to

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Central Laboratory of the Yaroslavl' State Works SK S/032/60/026/010/034/035
B016/B054

those of works engineers and technicians since otherwise nobody wants to shift from the works into the laboratory. At present, the laboratory staff is completed by newly trained personnel without any works experience; this is detrimental to the quality of work at the laboratory.

ASSOCIATION: Tsentral'naya laboratoriya Yaroslavskogo gosudarstvennogo zavoda SK (Central Laboratory of the Yaroslavl' State Works of Synthetic Rubber)

Card 3/3

KUCHMIN, O.I.; HALKOVA, L.V.; SOKOLOVA, L.A.; LEBDEVA, Yu.I.

Phase-adjusting acoustic gas analyzer. Zav.lab. 28 no.6: 742-743
(MIRA 15'5)

(Gases--Analysis)

PHASE I BOOK EXPLOITATION

SOV/6426

8
Bogolyubskiy, G. N., I. I. Burlinov, L. V. Vinogradov, V. V. Voznesenskiy,
V. S. Danilyuk, A. S. Zubkin, A. S. Il'yashev, M. D. Korablev, Yu. A.
Lebedeva, Yu. K. Makarov, I. P. Miroshnikov, I. P. Novichenko, A. V.
Popov, and V. A. Serebryakov

Zashchita naseleniya ot sovremennykh sredstv porazheniya; uchebnoye
posobiye dlya organizatsii DOSAAF (Protection of the Population From
Modern Means of Destruction; Handbook for DOSAAF Organizations)
2d ed., rev. and enl. Moscow, DOSAAF, 1963. 254 p. 450,000 copies
printed.

Sponsoring Agency: Vsesoyuznoye ordena krasnogo znamenii Dobrovol'noye
obshchestvo sodeystviya armii, aviatsii i floty.

Eds. (Title page): I. S. Varennikov and L. V. Vinogradov; Compilers: M. D.
Korablev and Yu. A. Lebedeva; Ed.: F. Ye. Godiner; Tech. Ed.: M. Z.
Sorkin.

Card 1/β

LEBEDEVA, Z.

Inexhaustible source. Mest.prom.i khud.promys. 3 no.1:6-7
Ja '62. (MIRA 15:2)

1. Glavnyy spetsialist upravleniya ekonomiki i planirovaniya
promyshlennosti Gosmestproma RSFSR.
(Industrial management)
(Industrial wastes)

LEBEDEVA, Z.A.

Determining the age of liming liquors. Leg. prom. 18 no.3:54 Mr '58.
(MIRA 11:4)

1. Zaveduyushchiy laboratoriyey Astrakhanskogo zavoda.
(Tanning materials)

LEBEDEVA, Zinaida Aleksandrovna, ed.

Tuberculosis in teenagers Moskva, Medgiz, 1946 34 p. (Trudy instituta, t. 2)

LEBEDOVA, S. A.

25093 Lebedeva, Z. A. Puti i Dostizheniya Sovetskoy Meditsiny O Tuberkuleze.
Bulletin' II-To Tuberkuleza Akad. Med. Nauk SSSR, 1948, No. 1, s- 3-13

SO: Letopis' Zhurnal Steby, No. 30, Moscow, 1948

LEEDEVA Z.A., LIPKINA E. A.

Primenenie streptomitsina pri kostnosustavnom tuberkuleze.
Use of streptomycin in osteo-articular tuberculosis/ Probl.
tuberk., Moskva No. 5 Sept-Oct 50 p. 47-53.

1. Of the Institute of Tuberculosis of the Academy of Medical Sciences USSR (Director Z. A. Lobodeva; Head of the Clinic of Bone Tuberculosis -- Prof. Z. Yu. Rol'ya).
SML Vol. 20, No. 2 Feb 1951

IMBELEVA, Z.A.

Pathogenesis of tuberculosis as generalized organic disease, Probl.
tuberk., Moskva no. 6:8-20 Nov-Dec 1952. (SIAL 23:5)

1. Director of the Institute of Tuberculosis of the Academy of Medical Sciences USSR.

ROL'YE, Z.Yu., professor; LEBEDEVA, Z.A., direktor.

Effectiveness of combined therapy of tuberculosis of the bones in children.
Probl.tub. no.3:7-14 My-Je '53. (MLBA 6:7)

1. Kostnoye otdeleniye Instituta tuberkuleza Akademii meditsinskikh nauk
SSSR. (Bones--Tuberculosis)

ALEKSANDROVA, A.V., kandidat meditsinskikh nauk; PROZOROV, A.Ye., professor, chlen-korrespondent Akademii meditsinskikh nauk SSSR; LEBEDEVA, Z.A., direktor; SHMELEV, N.A., professor, nauchnyy rukovoditel'.

Topography of tomograms of a normal thorax in a child. Vest.rent.i rad. no.3:14-19 My-Je '53. (MLRA 6:8)

1. Rentgenologicheskoye otdeleniye Instituta tuberkuleza Akademii meditsinskikh nauk SSSR (for Prozorov and Aleksandrova).
2. Institut tuberkuleza Akademii meditsinskikh nauk SSSR (for Lebedeva and Shmelev).
3. Akademiya meditsinskikh nauk SSSR (for Prozorov).
(Diagnosis, Radioscopic) (Chest)

LEBEDEVA, Z.A., kandidat meditsinskikh nauk.

The organism's resistance in osteoarticular tuberculosis. Probl.tub. no.3:
19-24 My-Je '53. (MLRA 6:7)

1. Institut tuberkuleza Akademii meditsinskikh nauk SSSR.
(Bones--Tuberculosis) (Joints--Tuberculosis)

SOROKINA, Z.A.; SPERANTOVA, M.A.; LEBEDEVA, Z.A., direktor.

Combined streptomycin and para-aminosalicylic acid therapy of osteoarticular tuberculosis in hospitalized and ambulant patients. Probl.tub. no.3:27-30 My-Je '53. (MLRA 6:7)

1. Institut tuberkuleza Akademii meditsinskikh nauk SSSR.
(Streptomycin) (Bones--Tuberculosis) (Joints--Tuberculosis)
(Para-aminosalicylic acid)

BOGUSH, L.K., professor; LEBEDEVA, Z.A., direktor.

Indications for lobectomy and pneumonectomy in pulmonary tuberculosis.
Probl.tub. no.3:63-67 My-Je '53. (MLRA 6:7)

1. Institut tuberkuleza Akademii meditsinskikh nauk SSSR.
(Lungs--Surgery) (Tuberculosis)

KUDRYAVTSEVA, A.I.; LEBEDEVA, Z.A., kandidat meditsinskikh nauk.

Basis for the principles of early therapy of primary tuberculosis. Probl.
tub. no.6:10-19 N-D '53. (MLRA 6:12)

1. Iz Instituta tuberkuleza Akademii meditsinskikh nauk SSSR (direktor Z.A.
Lebedeva). (Tuberculosis)

SHMELEV, N.A., professor; LEBEDEVA, Z.A., direktor.

Method of taking and interpreting the tuberculin test. Sov.med. 17 no.8:27-
29 Ag '53. (MLRA 6:8)

1. Institut tuberkuleza Akademii meditsinskikh nauk SSSR.
(Tuberculosis--Diagnosis) (Tuberculin)

SHMELEV, N.A., professor; LEBEDEVA, Z.A., direktor.

Chemotherapeutic substances and antibiotics in combined therapy in pulmonary tuberculosis. Sov.med. 17 no.9:3-8 S '53. (MIRA 6:9)

1. Institut tuberkuleza Akademii meditsinskikh nauk SSSR.
(Tuberculosis) (Antibiotics) (Chemotherapy)

LEBEDEVA, Z.A.

~~LEBEDEVA, Z.A.~~, redaktor; SHMELEV, N.A., redaktor; GARVEY, N.I., redaktor;
ROMANOVA, Z.A., tekhnicheskiiy redaktor

[Instructions on methods compound therapy of tuberculosis] Metodicheskie ukazaniia po kompleksnomu lecheniiu bol'nykh tuberkulezom. Pod red. Z.A.Lebedevoi i N.A.Shmeleva. Moskva, Gos. izd-vo med. lit-ry, 1954. 67 p. (MLRA 8:3)

1. Akademiya meditsinskikh nauk SSSR, Moscow. (Tuberculosis)

LEBEDEVA, Z.A., redaktor; SHMELEVA, N.A., redaktor; SAVON, A.A., redaktor;
BOBROVA, Ye.N., tekhnicheskiy redaktor.

[Surgical methods of treating tuberculosis] Khirurgicheskie metody
lechenia pri tuberkuleze. Pod red. Z.A.Lebedevoi, N.A.Shmeleva,
Moskva, Gos. izd-vo med. lit-ry, 1954. 134 p. (MIRA 8:2)

1. Akademiya meditsinskikh nauk, Moscow. Institut tuberkuleza.
(Tuberculosis) (Chest-Surgery)

EXCERPTA MEDICA Sec 15 Vol. 10/9 Chest Diseases Sept 57

2387. LEBEDEVA Z. A. Inst. Nat. de Tuberc., Moscou. *Quelques symptômes extra-pulmonaires de la primo-infection tuberculeuse. Some extra-pulmonary symptoms of primary tb infection REV. TUBERC. (Paris) 1956, 20/7-8 (828-842) Illus. 10

In the course of a primary tb infection, modifications of the osseous tissues may occur without the development of clinically or radiologically perceptible lesions of the lungs or of the intrapulmonary lymph nodes. These skeletal alterations may be of focal or of dystrophic nature. The topography of the focal lesions during this period resembles that in typical osteo-articular tb. The development of the focal bone lesions differs with the resistance and the age of the patient and with the localization of the disease. Radiological examination of the skeleton is one of the main diagnostic aids. The focal lesions of the bone marrow may present the same morphological aspects as the focal lesions in the pulmonary parenchyma and the hilar lymph nodes, which may develop simultaneously. Early treatment may prevent the disease from developing into clinically characteristic osseous tb.

(XV, 7, 9)

1. LEBEDEVA, Z.A.

ASHURKOV, Ye.D.; GRAZHUL', V.S.; LEBEDEVA, Z.A., redaktor

[Physicians of the world in the struggle for peace] Vrachy mira v
bor'be za mir. Pod red. Z.A.Lebedevoi. Moskva, Medgiz, 1957. 91 p.
(PHYSICIANS) (PEACE) (MIRA 10:11)

LEBĀDEVA, Z.A., kandidat meditsinskikh nauk

Importance of work in the treatment of osseous tuberculosis [with
summary in French]. Probl.tub. 35 no.3:3-12 '57. (MLRA 10:10)
(TUBERCULOSIS, OSTEOARTICULAR, therapy,
occup.ther. (Rus))
(OCCUPATIONAL THERAPY, in various diseases,
tuberc., osteoarticular (Rus))

LEBEDEVA, Z.A., kandidat meditsinskikh nauk

Tasks in the prevention of tuberculosis; on the 70th anniversary of
the October Socialist Revolution] Klin.med. 35 no.6:6-11 Je '57.
(MLRA 10:8)

(TUBERCULOSIS, prev. and control
in Russia)

LEBEDEVA, Z.A., kand.meditsinskikh nauk

Urgent problems in the prevention of tuberculosis. Trudy Inst.
tub. AMN 7:3-7 '58. (MIRA 13:10)
(TUBERCULOSIS--PREVENTION)

LEBEDEVA, Z. A.

Doc Med Sci - (diss) "Tuberculosis of bones and vessels as a manifestation of a general affection of the organism. (Clinico-experimental study)." Moscow, 1961. 35 pp; (Academy of Medical Sciences); 250 copies; price not given; list of author's works on pp 34-35 (23 entries); (KL, 6-61 sup, 235)

LEBEDEVA, Z.A.; SOROKINA, Z.A.; BUSURINA, I.V.; KUZNETSOVA, Ye.S.

The nature of healing in osteoarticular tuberculosis in adults.
Probl.tub. 38 no.6:31-36 '60. (MIRA 13:11)

1. Iz kostnotuberkuleznogo otdeleniya dlya vzroslykh (zav. Z.A. Lebedeva) Instituta tuberkuleza AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. N.A. Shmelev).
(BONES--TUBERCULOSIS)

LEBEDEVA, Z.A., red.; PARFENOVA, I.P., red.; FRIDMAN, R.A., red.;
ROMANOVA, Z.A., tekhn. red.

[Chemotherapy in the early period of primary tuberculosis in children and adolescents] Khimioterapiia rannego perioda pervichnogo tuberkuleza u detei i podrostkov. Pod red. Z.A. Lebedevoi, I.P. Parfenovoi. Moskva, Medgiz, 1961. 174 p. (MIRA 15:6)

1. Akademiya meditsinskikh nauk SSSR, Moscow.
(CHEMOTHERAPY) (TUBERCULOSIS)

LEBEDEVA, Z.A., kand.med.nauk

Changes in the bone marrow in rabbits with tuberculosis. Probl.
tub. no.1:98-106 '62. (MIRA 15:2)

1. Iz Instituta tuberkuleza AMN SSSR (dir. - chlen-korrespondent
AMN SSSR prof. N.A. Shmelev).
(MARROW) (TUBERCULOSIS IN ANIMALS)

LEBEDEVA, Z. A., doktor med. nauk

Disarmament, peace, health. Zdorov'e 8 no.7:1-3 J1 '62.
(MIRA 15:7)

1. Sekretar' Mezhdunarodnoy demokraticheskoy federatii zhenshchin.

(DISARMAMENT)

SHVARTS, L. S., prof.; LOBANOV, V. N.; LEBEDEVA, Z. G.; YUDANOVA, L. S.

Changes of the myocardium in Botkin's disease. Terap. arkh. no.9:
71-78 '61. (MIRA 15:2)

1. Iz kafedry gospital'noy terapii (zav. - prof. L. S. Shvarts)
lechebnogo fakul'teta Saratovskogo meditsinskogo instituta.

(HEPATITIS, INFECTIONS) (HEART—DISEASES)

LEBEDEVA, Z.G.

Myocardial infarct in persons under 40 years of age. Sov. med.
23 no.1:9-11 Ja '65. (MIRA 12:10)

1. Kafedra hospital'noy terapii (zav. - prof. L.S.Shvants) lechebnogo
fakul'teta Saratovskogo meditsinskogo instituta.

VOSKRESENSKIY, B.V., LEBEDEVA, Z.I.

Antigenic and immunogenic properties of staphylococcal anatoxins prepared on meat and casein culture media. Zhur. mikrobiol. epid. i immun. 29 no.9:16-20 S'58 (MIRA 11:10)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR. (PYOGENES, anatoxins prep. on meat & casein media (Rus))

BUNINA, B.Z., prof.; DRABKINA, R.O., prof.; KLEBANOVA, A.A., kand. biolog.nauk; KOSMODAMIANSKIY, V.N., prof.; MODEL', L.M., prof.; RABUKHIN, A.Ye., prof.; STRUKOV, A.I., prof.; STUKALO, I.T., prof.; TIMASHEVA, Ye.D., kand.med.nauk; CHISTOVICH, A.N., prof.; SHMELEV, N.A., prof.; EYNIS, V.L., prof., zasluzhennyy deyatel' nauki, otv. red., red.toma; KORNEV, P.G., prof., red.; KUDRYAVTSEVA, A.I., prof. [deceased]; red.; LEBEDEVA, Z.I., kand.med.nauk, red.; LAPINA, A.I., red.; MASSINO, S.V., doktor med.nauk, red.; SHEBANOV, F.V., prof., zasluzhennyy deyatel' nauki, red.; SENCHILO, K.K., tekhn.red.

[Multivolume handbook on tuberculosis] Mnogotomnoe rukovodstvo po tuberkulezu. Moskva, Gos.izd-vo med.lit-ry. Vol.1. [General problems in tuberculosis] Obshchie problemy tuberkuleza. Red. toma: V.L.Einis, A.I.Strukov. 1959. 672 p. (MIRA 13:6)

1. Chlen-korrespondent AMN SSSR (for Strukov, Shmelev). 2. Deystvitel'nyy chlen AMN SSSR (for Kornev).
(TUBERCULOSIS)

LEBMEVA, Z.I.; MARKOVA, I.G.

Conductometric determination of π -nitro- α -acetylaminoacetophenone.
Med.prom. 13 no.1:44-46 Ja '59. (MIRA 12:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.
(ACETOPHENONE) (CONDUCTOMETRIC ANALYSIS)

AKATOV, A.K.; LEBEDEVA, Z.I.

Quantitative relationship between phosphatase activity, pathogenic properties, and penicillin resistance in Staphylococcus. Antibiotiki 6 no.4:363-368 Ap '61. (MIRA 14:5)

1. Otdel ranevykh infektsiy Instituta mikrobiologii i epidemiologii imeni N.F.Gamalei AMN SSSR.
(STAPHYLOCOCCUS) (PENICILLIN) (PHOSPHATASE)

LEEDEVA, Z.I.; MARKOVA, I.G.

Quantitative determination of platyphyllin and seneciophyllin
in roots and blades of Senecio platyphyllus. Med. prom. 15
no.11:56-58 N '61. (MIRA 15:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevti-
cheskiy institut imeni S. Ordzhonikidze.
(ALKALOIDS)

VOSKRESENSKIY, B.V.; DMITRIYEVA, A.I.; LEBEDEVA, Z.I.

Experience in the prevention of staphylococcal diseases in maternity homes by immunizing pregnant women with staphylococcal toxoid.
Zhur.mikrobiol.epid.i immun. 32 no.1:33-39 Ja '61.

(MIRA 14:6)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei
AMN SSSR i Moskovskogo rodit'nogo doma No.16.
(STAPHYLOCOCCAL INFECTIONS) (PREGNANCY, COMPLICATIONS OF)

SMIRNOVA, M.V.; KUCHINSKAYA, N.Ye.; LEBEDEVA, Z.I.; TSAR'KOVA, V.I.

Study of the arginase activity of a toxicogenic strain of *Staphylococcus albus* in vitro and in the process of cultivation. Vop. med. khim. 8 no.2:181-186 Mr-Apr '62. (MIRA 15:4)

1. Department of Biochemistry, N.F.Gamaleya Institute of Epidemiology and Microbiology, Academy of Medical Sciences of the U.S.S.R., Moscow.
(STAPHYLOCOCCUS ALBUS) (ARGINASE)

LEBEDEVA, Z.I.

Leukocidin in the strains of pathogenic staphylococci isolated
from healthy carriers and patients. Zhur. mikrobiol. epid. i
immun. 33 no.10:46-50 0'62 (MIRA 17:4)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei
AMN SSSR.

SMIRNOVA, M.V.; LEBEDEVA, Z.I.

Some data on the activity of proteinases of Staphylococcus
albus in vitro and in the process of toxin formation. Vop.
med. Khim. 9 no.1:44-48 Ja-F '63. (MIRA 17:6)

1. Otdel biokhimii Instituta mikrobiologii, epidemiologii i
immunologii imeni N.F. Gamalei AMN SSSR, Moskva.

VYGODCHIKOV, G.V.; AKATOV, A.K.; LEBEDEVA, Z.I.

Phage typing of pathogenic staphylococci. Report No.1:
Dependence of the results of phage typing on the origin
and pathogenic properties of the strains. Zhur. mikrobiol.,
epid. i immun. 40 no.2:70-76 F '63. (MIRA 17:2)

1. Iz Instituta epidemiologii i mikrobiologii imeni
Gamalei AMN SSSR.

VYGODCHIKOV, G.V.; AKATOV, A.K.; LEBEDEVA, Z.I.

Phage typing of pathogenic staphylococci. Report No.2: Comparison of the resistance of strains to antibiotics with results of their phage typing. Zh. mikrobiol. 40 no.7:19-24
Jl'63 (MIRA 17:1)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei
AMN SSSR.

SMIRNOVA, M.V.; BLAGOVESHCHENSKAYA, Ye.V.; KUCHINSKAYA, N.Ye.; LEBEDEVA, Z.I.

Interrelation between nucleic acid metabolism and toxin biosynthesis
in Staphylococcus albus. Vop.med.khim. 10 no.3:274-289 My-Je '64.
(MIRA 18:2)

1. Otdel biokhimi Institute epidemiologii i mikrobiologii imeni
Gamalei AMN SSSR, Moskva.

LEBEDEVA, Z.K., kand.tekhn.nauk; SERGEYEV, A.G., kand.tekhn.nauk.

Protecting fats and oils from oxidation. Masl.-zhir. prom. 23
no.9:17-20 '57. (MIRA 10:12)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov.
(Oils and fats)

LEBEDEVA, Z.K., kand. tekhn. nauk.

Oil from tea seeds. Masl. zhirov. prom. 23 no.12:18-20 '57.
(MIRA 11:2)

1. Vsesoyuznyy nauchno-isledovatel'skiy institut zhirov.
(Tea) (Oils and fats, Edible)

LEBEDEVA, Z.K., kand. tekhn. nauk.

Oxidizing processes in the refining of oils and fats. Masl.-zhir.
prom. 24 no.2:13-15 '58. (MIRA 11:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov.
(Oils and fats) (Oxidation)

LEEDEVA, Z.K., kand. tekhn. nauk

Increasing the stability of vegetable oils by the use of antioxidants.
Masl.-zhir. prom. 25 no.7:24-28 '59. (MIRA 12:12)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov.
(Oils and fats) (Antioxidants)

LEBEDEVA, Z.K., kand.tekhn.nauk; VELIKOROSTOVA, M.A., inzh.

Amount of air dissolved in oils and its effect on the
keeping quality of oils. Masl.-zhir.prom. 25 no.11:
17-21 '59. (MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov.
(Oils and fats) (Air)

LEBEDEVA, Z.L., otv. za vypusk; GROMOV, Yu.V., tekhn. red.

[Instructions for the preparation and use of water for the cooling of diesel locomotive and diesel train engines; superseding all previous instructions, regulations, and orders on the preparation and use of water for the cooling of diesel locomotive engines] Instruktsiia po prigotovleniiu i primeneniui vody dlia okhlazhdeniia dvigatelei teplovozov i dizel'poezdov; v otmenu vsekh raneesh izdannykh instruktsii, instruktiivnykh ukazanii i rasporyazhenii po prigotovleniiu i primeneniui vody dlia okhlazhdeniia dvigatelei teplovozov. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 35 p. (MIRA 14:12)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye lokomotivnogo khozyaystva.

(Diesel engines--Cooling)

KORSHUNOV, I.A.; LEBEDEVA, Z.M.

Isotopic exchange of iron atoms in prussian blue. Zhur.neorg.
khim. 1 no.8:1912-1914 Ag '56. (MLRA 9:11)

1. Gor'kovskiy gosudarstvennyy universitet, Kafedra radiokhimi.
(Iron-Isotopes) (Prussian blue)

LEBEDEVA Z. N.

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Biochemistry of experimental gastritis in light of cortico-visceral connections. V. M. Vasyutichkin, A. V. Drobinseva, O. N. Borovikova, Z. N. Lebedeva, and O. A. Goryacheva. *Fiziol. Zhur. S.S.S.R.* 42, 192-202 (1956).—Exptl. gastritis in cats lowers the reducing and oxidizing ability of the mucous membranes of the stomach (tests with decolorization of methylene blue and with formation of indophenol blue); acid phosphatase also declines as do free and bound vitamin B₁ and nicotinic acid. In normal animals carbacholine enhances the anoxidative link in cell respiration of the gastric lining, while adrenaline or sympatol has no effect. Block of parasympathetic innervation with atropine represses cellular respiration (mainly the aerobic part), while sympatolitin, which blocks the sympathetic innervation, causes an increase in the aerobic respiration. Both of these effects repress considerably the biochem. shifts listed above in exptl. gastritis. Group B vitamins greatly increase the vol. and acidity of gastric juice, and restore the oxidation-reduction reactions of gastric lining. G. M. Kosolapoff

LEBEDEVA, Z.N.

Determination of the level of free amino acids in healthy people by the method of paper chromatography. Vop.pit. 22 no.1:55-67 Ja-F'63 (MIRA 16:11)

1. Iz nauchno-issledovatel'skoy laboratorii pitaniya Voenno meditsinskoy ordena Lenina akademii imeni S.M.Kirova, Lenin-grad.

*

LEBEDEVA, Z.N.

Chromatographic determination of free amino acids in a small quantity of undiluted blood. Lab. delo no. 8:451-453 '64.
(MIRA 17:12)

1. Nauchno-issledovatel'skaya laboratoriy. pitaniya
(nachal'nik - prof. V.M.Vasyutochkin) Voenno-meditsinskoy
ordena Lenina akademii im. S.M.Kirova, Leningrad.

LEBEDEVA, Z. P.: Master Med Sci (diss) -- "On the morphology of the nervous apparatus of the tympanum (Experimental-histological investigation)". Leningrad, 1958. 11 pp (First Leningrad Med Inst im Acad I. P. Pavlov), 250 copies (KL, No 1, 1959, 124)

ALEKSANDROV, A.I., doktor med.nauk; KOMAROVICH, G.M., kand.med.nauk;
LEBEDEVA, Z.P., kand.med.nauk; LOYT, R.L., kand.med.nauk

Effect of excessively intense noise from jet engines on the organ
of hearing. Vestn. otorin. 25 no.5:13-21 3-0 '63. (MIRA 17:4)

AL'TMAN, Ya.A.; LEBEDEVA, Z.P.

Electrophysiological study of the posterior corpus bigeminum
in cats. Biul. eksp. biol. i med. 59 no.6:7-11 Je '65.
(MIRA 18:6)

1. Laboratoriya fiziologii slukhovogo analizatora (zav. - prof.
G.V. Gershuni) Instituta fiziologii imeni Pavlova (dir. - aka-
derik V.N. Chernigovskiy) AN SSSR, Leningrad.

L 31187-66

ACC NR: AP6022564

SOURCE CODE: UR/0219/66/061/002/0003/0006

AUTHOR: Vartanyan, I. A.; Lebedeva, Z. P.; Maruseva, A. M. 25
B

ORG: Laboratory of Auditory Analysor Physiology, Institute of Physiology im. I. P. Pavlov, AN SSSR, Leningrad (Laboratoriya fiziologii slukhovogo analizatora Instituta fiziologii AN SSSR)

TITLE: Electrical reactions of the inferior colliculus of rats to brief sounds (clicks) 22

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 61, no. 2, 1966, 3-6

TOPIC TAGS: electrophysiology, rat, acoustic biologic effect, audition

ABSTRACT: The electrical reactions of the inferior colliculus of rats are similar to those of cats. Typically, they start with a rapid positive wave followed by a slow negative deviation. In some cases two positive waves with a subsequent negative deviation were recorded. The amplitude of the reactions in the 30 anesthetized white rats studied ranged from 70-400 microvolts. The maximum amplitude was noted in the experiments in which the electrode was in the center of the nucleus. The thresholds of the reactions were somewhat higher than the audibility thresholds of man under the same conditions.

The average threshold in the rats with normal middle ear was somewhat higher than that in cats (the difference was no more than 5 db). The average length of the latent period of the reaction to the clicks was 3.1 milliseconds with the intensity of the stimulus 45-50 db above the threshold. When the intensity of the signal was changed 5-80 db above the threshold,

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the latent period decreased from 5 to 2.8 milliseconds. The duration of the positive wave of the response had different values -- from 2-4 milliseconds.

The amplitude of responses caused by a second signal presented at intervals of 3-100 milliseconds from the first was 50% of the amplitude of the first response at a 3-4.6 milliseconds interval. Complete restoration of the amplitude of both responses usually required 60-70 milliseconds.

This paper was presented by Academician V. N. Chernigovskiy on 1 August 1964. Orig. art. has: 3 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 01Aug64 / ORIG REF: 006 / OTH REF: 013

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LEBEDEVA, Z. S.

347 Opyt Raboty Po Ratsionalizatsii I Izobrenatel'stvo Na Leningradskom Metallicheskom Zavode Imeni Stavina. (Iz Tsikla Lektsiy Dlya Rabotnikov Brizov Prom. Predpriyatiy). L., 1954. 32 S. 22sm (Vsesoyuz.)-vo Po Rasprestraneniyu Pout. I Nauch. Znañiy. Leningr. Dom Nauch.-Tekhn. Propagandy). 5.000 Ekz. 1 r.-(54.55303) P. 621.779.0016

SO: Knizhnaya, Letopis, Vol. 1, 1955

KIT, S.P.; LEBEDEVA, Z.S.; SHUL'MAN, F.R.

Automatically controlled unit for the electrothermal treatment of reinforcing bars. Suggested by S.P.Kit, Z.S.Lebedeva, F.R.Shul'man. Rats.1 izobr.predl.v stroi. no.16:9-11 '60. (MIRA 13:9)

1. Po materialam zavoda zhelezobetounykh izdeliy No.5 Glavprom-stroymaterialov Mosgorispokloma, Moskva, 4-y Dubrovskiy proyezd, d.3.

(Reinforcing bars)

(Electric heating)

ADAKHOVSKIY, A.F.; GORDOV, A.N.; LAPP, G.B.; LEBEDEVA, Z.S.; MAKSIMOVA,
V.L.; OMEL'CHENKO, G.F.; PROKOP'YEV, P.N.; ERGARDT, N.N.

Investigating new types of thermocouples for measuring temperatures
up to 1,800° C. Trudy inst.Kom.stand., mer i izm.Prib. no.42:
29-38 '60.

(Thermocouples)

(MIRA 14:1)

32595

S/137/61/000/011/009/123
A060/A101

18.12.00

1530 1418

AUTHORS:

Adakhovskiy, A. P., Gordov, A. N., Lapp, G. B., Lebedeva, Z. S.,
Maksimova, V. L., Omel'chenko, G. F., Prokop'yev, P. N., Ergardt,
N. N.

TITLE:

Investigation of new types of thermocouples for measuring tempera-
tures up to 1,800°C

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 11, 1961, 12, abstract 11B71
("Tr. in-tov Kom-ta standartov, mer i izmerit. priborov pri Sov.
Min. SSSR", 1960, no. 42 (102), 29 - 38)

TEXT:

An investigation was carried out upon thermocouples from alloys of Pt and Rh, containing 1, 6, 10, 13, 20, 30, and 40 % Rh. The influence of the refractory materials used for reinforcing the thermocouples was clarified. The least influence upon the thermoelectric characteristics of Pt-Rh alloys was exerted by oxides of Th, Be, and Al. Zr oxide has a strong influence. As the diameter of thermoelectrodes increases, the influence of the material is reduced. The influence of the refractory ceramic at high temperatures is reduced as the Rh content in the alloy is raised. The greatest stability is demonstrated by

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Investigation of new types of thermocouples ...

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thermocouples of ПР 30/6 (PR 30/6). Under repeated measurements of the temperature of liquid steel by means of them, and without renewing the working junction, their characteristic showed almost no change. The thermocouples ПР 100/20 (PR 100/20) were withdrawn from testing because of their excessive fragility, even though their readings remained practically constant.

G. Glinkov

[Abstracter's note: Complete translation]

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S/194/61/000/011/011/070
D256/D302

AUTHORS:

Adakhovskiy, A.P., Gordon ~~A.N.~~, Lapp, G.B., Lebe-
deva, Z.S., Maksimova, V.L., Omel'chenko, G.F.,
Prokop'yev, P.N. and Ergardt, N.N.

TITLE:

Investigating new types of thermocouples for tem-
perature measurements up to 1800°C

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 11, 1961, 28, abstract 11 A225 (Tr. in-tov Kom-
ta standartov, mer i izmerit. priborov pri Sov. Min.
SSSR, 1960, no. 42 (102), 29-38)

TEXT:

Investigations are described of thermocouples made
of platinum-rhodium alloys of various percentage composition of the
two elements. Thermoelectrical uniformity of the alloys was deter-
mined using a special arrangement consisting of an oven, an inter-
lacing device and a potentiometer. The presented tables include
results of testing and calibration data for thermocouples of the

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following types: ПР 13/1 (PR 13/1), ПР 30/6 (PR 30/6), ПР 30/13 (PR 30/13) and ПР 40/20 (PR 40/20). Thermocouples ПР 10/0 (PR 10/0), ПР 30/6 (PR 30/6) and ПР 100/20 (PR 100/20) were tested for long-time stability of the thermo-emf. Recommendations for industrial use of the thermocouples are given. 5 figures. 4 tables. [Abstracter's note: Complete translation]

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S/263/62/000/003/006/015
1004/1204

94 10 00
AUTHOR: Adakhovskiy, A. P., Gordov, A. N., Lapp, G. B., Lebedeva, Z. S., Maksimova, V. L., Omelchenko, G. F., Prokopyev, P. N. and Erhardt, N. N.

TITLE: Investigation of new types of thermocouples for measurement of temperatures up to 1800°C

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. Izmeritel'naya tekhnika, no. 3, 1962, 38, abstract 32.3.229. "Tr. in-tov Kom-ta standartov, mer i izmerit. priborov, pri Sov. Min. SSSR", 1960, no. 42 (102), 29-38

TEXT: The authors studied thermocouples, both electrodes of which were made of platinum-rhodium alloys of varying composition. Sverdlov sovnrkhoz (district economic council) produced platinum-rhodium wires with different rhodium contents, 0.3, 0.5, 0.8 and 1.0 mm in diameter and studied their thermoelectric uniformity. The latter was determined on a semi-automatic industrial set-up consisting of an oven for heating the junction of the investigated wire with a comparison electrode, a rewinding unit and a laboratory potentiometer. The degree of uniformity of the thermoelectric material was determined by the value of the thermoelectric emf created at the junction of the investigated wire with a comparison electrode. The comparison electrode was formed by a piece of wire cut from an end of the investigated bundle. The oven of the set-up was built

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I004/I204

of porcelain tube 15 mm diameter and 90 mm long, a platinum heater, thermal insulation, an outer mantle and a stand. The temperature inside the cavity of the oven was determined by means of a Pt-Rh thermocouple. The Sverdlov branch of ВНИИМ (VNIIM) collected and analyzed the data in order to establish deviation limits from the average calibration for the thermoelectric emf of the couples. VNIIM developed a method of calibration of thermocouples, studied their calibration characteristics and analyzed the variation of these properties for thermocouples stemming from different melts. The influence of the contact between the thermoelectrodes and the supporting ceramic of different composition under high temperature conditions and the stability of the thermocouples under various operating conditions were studied. As a result of these comprehensive studies it is concluded that the thermocouples of the ПР 30/6 (PR 30/6) type are the most accurate for measurement of temperatures of molten metals and of temperatures above 1400°C for several hundred hours. For operation under actual working conditions the fixtures and the protective caps should be made of aluminum oxide with titanium oxide added. There are 5 figures, 4 tables and 6 references.

[Abstracter's note: Complete translation.]

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