"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

BABOTNOVA, I. L.

"Heterotrophic processes in autotrophic organisms." (p. 135) by Babotnova, I. L.

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologie) Vol. XXII, No. 1, 1946.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I. L. PA 5T2

USSR/Medical Science Feb 1947
Microbiology

"Microorganisms as Reagents in Quantitative Assaying of Vitamins and Amino Acids," I. L. Rabotnova, 4 pp

"Uspek Sovremen Biolog" Vol XXIII, No 2

Tests made on vitamins B_1, B_2, B_3, B_4, B_5, B_6, B_7, B_8, B_9, and amino-benzoic acid with various microorganisms to determine whether the reaction involves the pH values. Includes tables.

5T2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I. L. PA 23T72

USSR/Medicine - Stains and Staining, Jul/Aug 1947
Gram Staining
Medicine - Stains and Staining, Methods

"Gram's and the Ribonucleic Acid Method of Staining Bacteria," I. L. Rabotnova, Moscow, 1 p

"Uspekhi Sovremennoy Biologii" Vol XXIV, No 1 (4)

In 1884 Gram discovered by accident a method of staining matter for microscopic study by means of gentian violet. The slide was then painted with Lugol's caustic solution. The article mentions Henry and Stacey and Bartholomew and Umbreit who did considerable work on the determination of Gram positive and Gram negative specimens by different methods of treatment. 23T72

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

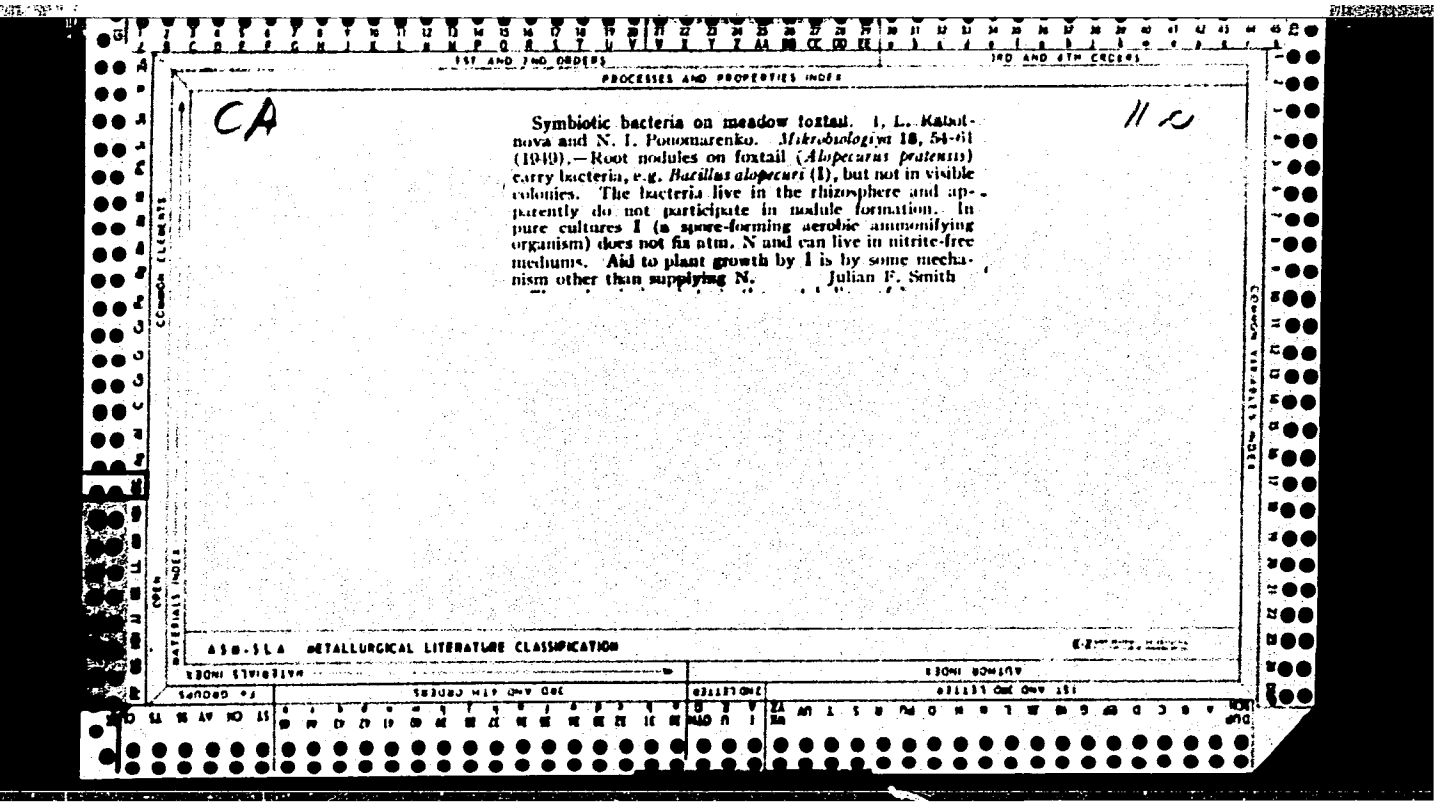
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I., KONDRYAT'EVA, E., NETTE, I., and ARONES, S.
Department of Microbiology, Moscow State University.

"Fixation of the Air Nitrogen by the Azobacter Under Differenct Conditions of Aeration," Mikrobiologia, Vol. 18, No. 6, Nov/Dec '49.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343



PROCESSES AND PROPERTIES INDEX

CA

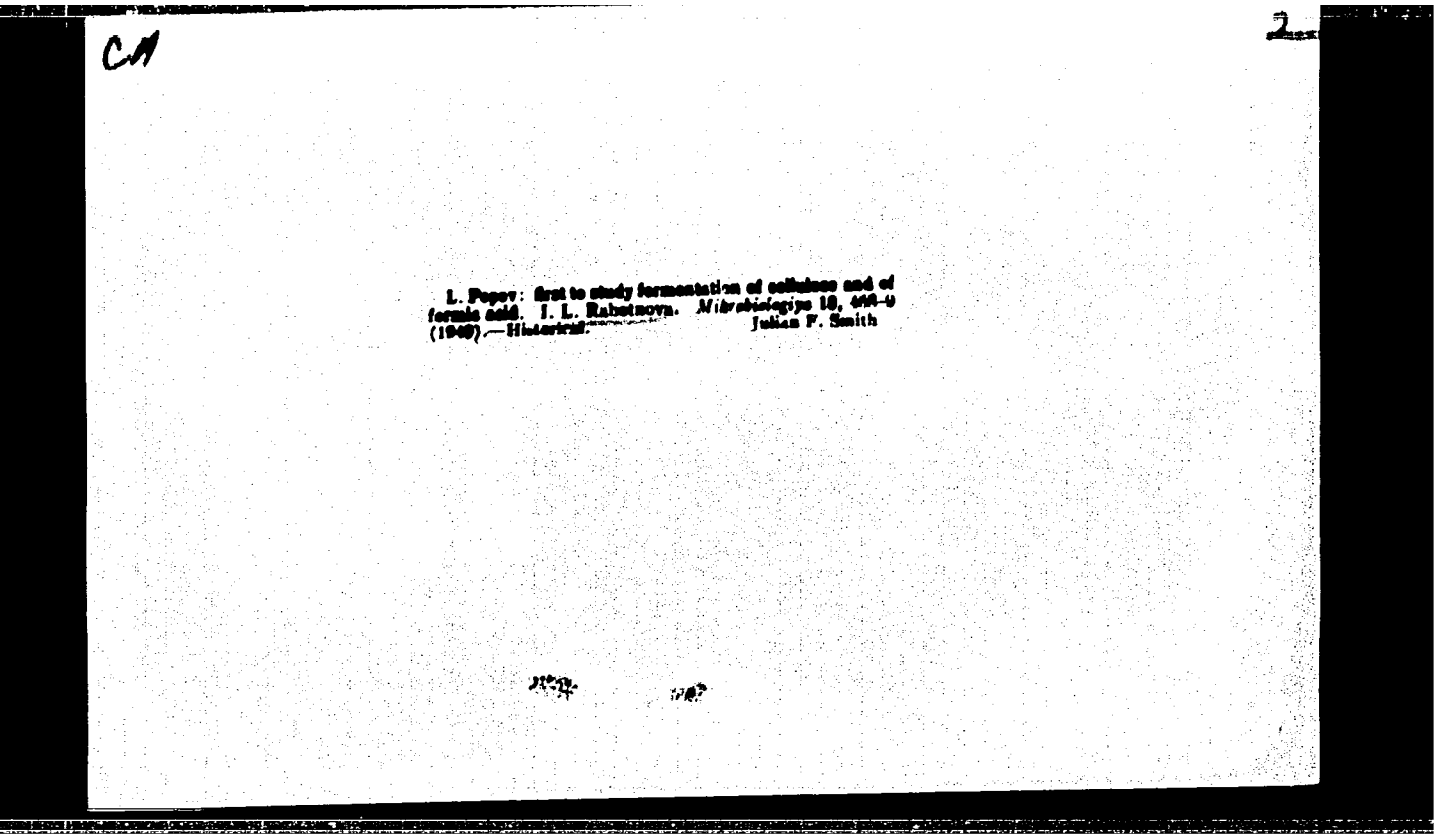
Symbiotic bacteria on meadow foxtail. I. L. Katsnova and N. I. Ponomarenko. *Mikrobiologiya* **18**, 54-61 (1949).—Root nodules on foxtail (*Alopecurus pratensis*) carry bacteria, e.g. *Bacillus alopecuri* (I), but not in visible colonies. The bacteria live in the rhizosphere and apparently do not participate in nodule formation. In pure cultures I (a spore-forming aerobic ammonifying organism) does not fix atm. N and can live in nitrite-free mediums. Aid to plant growth by I is by some mechanism other than supplying N. Julian F. Smith

11 ∞

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343



L. Popov: first to study fermentation of cellulose and of formic acid. I. L. Rabotnova. *Mikrobiologiya* 18, 449-4 (1949).—Historical. Julian F. Smith

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

C A

Influence of aeration intensity on autotrophic and heterotrophic nutrition of Chlorella. I. L. Rabotnova and I. V. Konova (People's Univ., Moscow). *Mikrobiologiya* 19, 24-31(1950).—Cultures of *Chlorella vulgaris* (I) grow far better on mash than on prepd. sugar mediums. The optimum concn. is 1-2° Balling. Under anaerobic conditions at r_H 13-18 I lives but does not proliferate; when aerated to r_H 19-28, it proliferates. In nutrition I passes from hetertrophism at low r_H through a heterotrophic-autotrophic stage at medium r_H to a chiefly prototrophic (photosynthesis) stage at high r_H. J. F. S.

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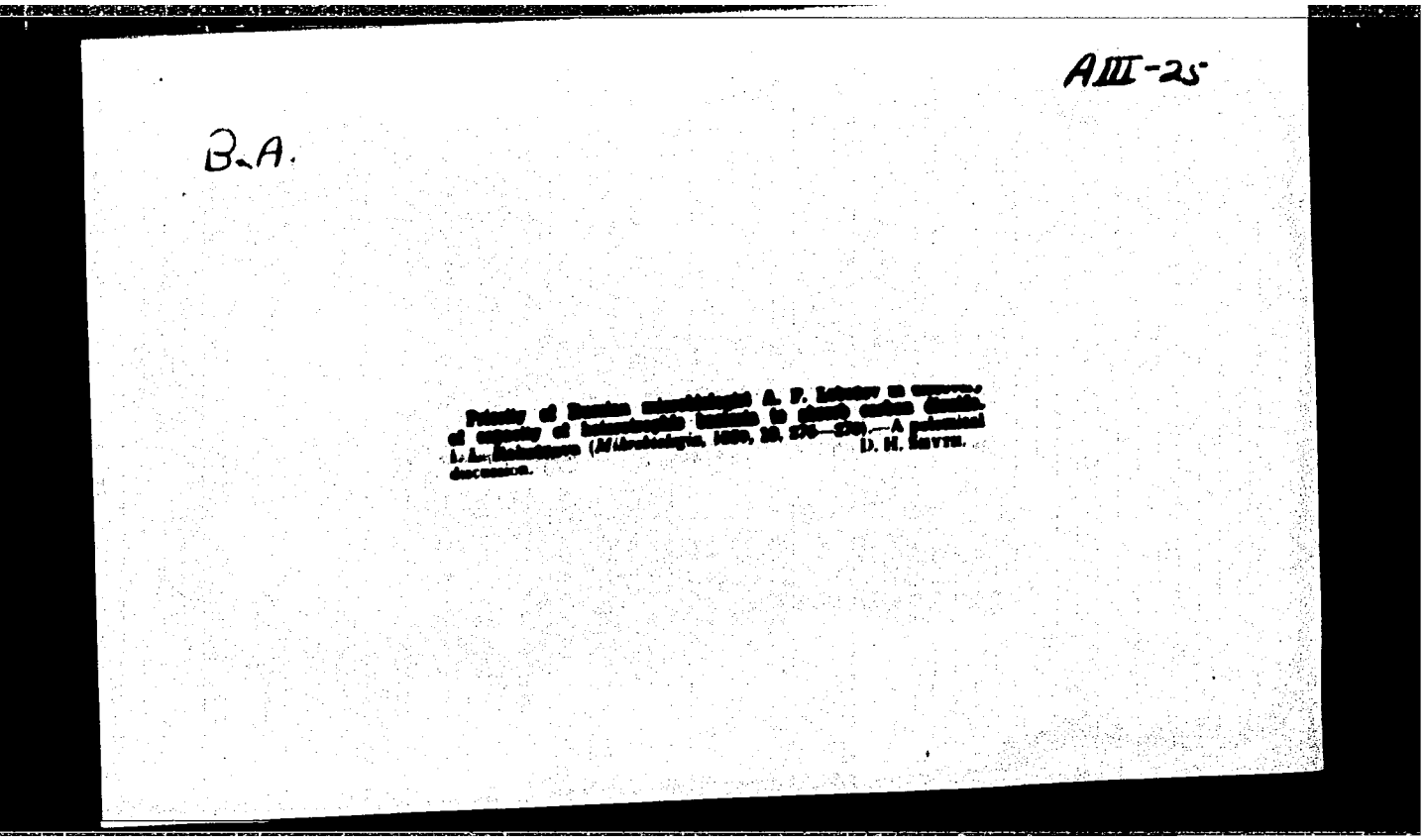
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343



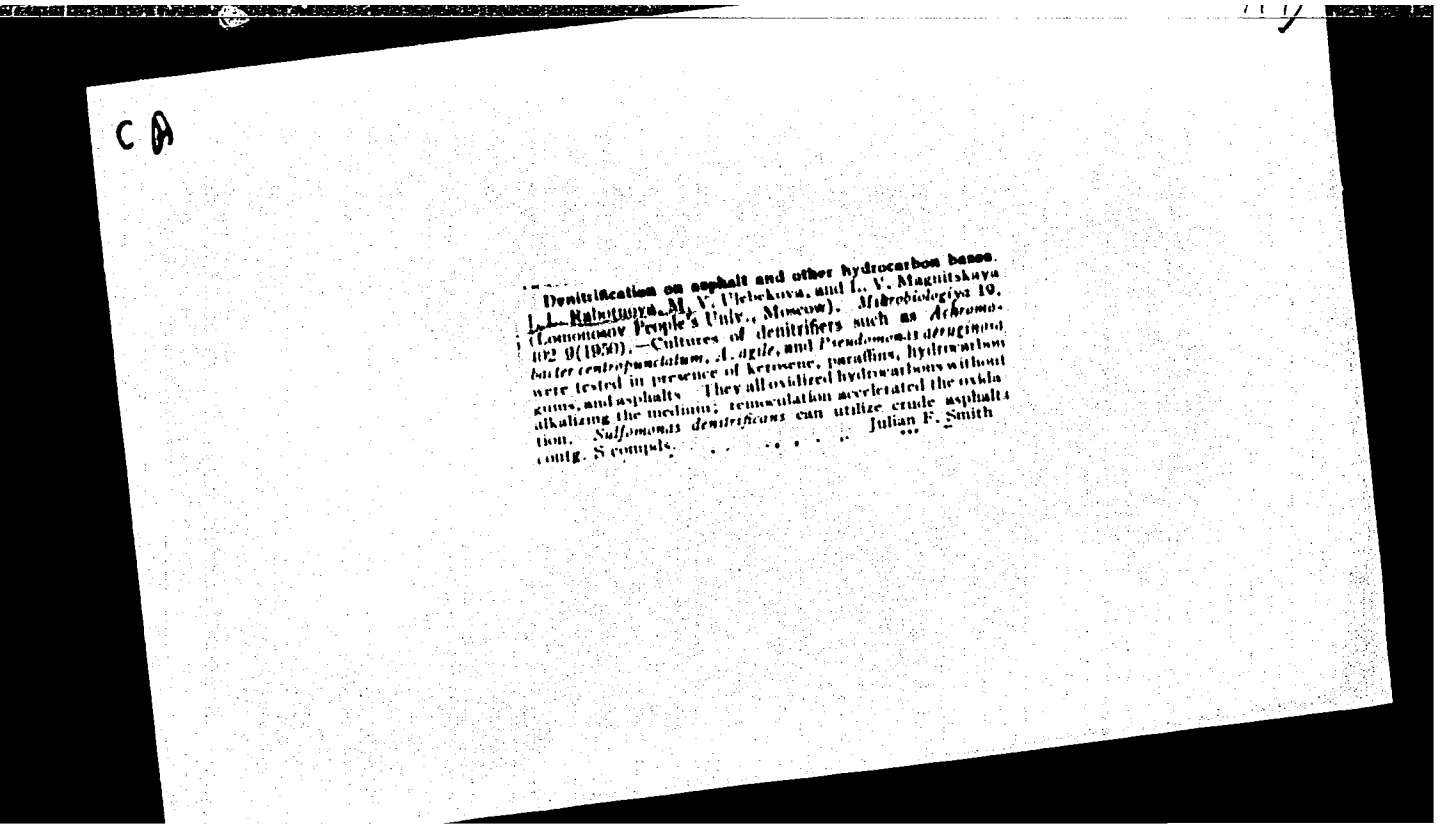
AIII-25

B.A.

[redacted] D. H. [redacted]

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343



CA

Denitrification on asphalt and other hydrocarbon bases. L. L. Rakutsuyna, M. V. Plekhova, and L. V. Magnitskaya (Lomonosov People's Univ., Moscow). *Mikrobiologiya* 19, 102-9(1950).—Cultures of denitrifiers such as *Achromobacter centrofunctatum*, *A. agile*, and *Pseudomonas aeruginosa* were tested in presence of kerosene, paraffins, hydrocarbons, gums, and asphalts. They all oxidized hydrocarbons without alkalizing the medium; temperature accelerated the oxidation. *Sulfomonas denitrificans* can utilize crude asphalts contg. S compds. Julian F. Smith

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

SHAPOSHNIKOV, V. N.; RABOTNOVA, I. L.; YARMOLA, G. A. and KUZNETSOVA, V. M.

"About the Development of Funguses on Natural Rubber Trees," Microbiology, Vol. 21, Issue 3, Publishing Co. of the AS USSR, Moscow, 1952.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I. L.

USSR/Biology - Microbiology, Rubber Mar/Apr 52

"Growth of Bacteria on Natural Rubber," V. N. Shaposhnikov, I. L. Rabotnova, G. A. Yarmola, V. M. Kuznetsova, N. N. Mozokhina-Porshnyakova, Biol Soil Sci Res Inst, Moscow State U imeni M. V. Lomonosov

"Mikrobiol" Vol XXI, No 2, pp 146-154

Found that rubber hydrocarbon may be consumed by the following microorganisms: Bac. subtilis, Achr. agile, Mycococcus ruber, Mycobact. globiforme, Mycobact, lacticola, Act. albus, and the yeast Torula rosea.

210T10

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

SHAPOSHNIKOV, V.N., RABOTNOVA, M.L., YARMOLA, G.A., KUZNETSOVA, V.I.

Molds - Botany

Development of molds on natural rubber. Mikrobiologiia 21 no. 3, 1952

9. Monthly List of Russian Accessions, Library of Congress, September 1952, Uncl.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

CA

Microbiology 11-C

Some physiological characteristics of Clostridium pasteurianum. I. L. Rabotnova, V. K. Egurova, G. K. Ovolina, and I. K. Ekelik (State Univ., Moscow). *Mikrobiologiya* 21, 427–37(1952).—Under lab. conditions cultures of *Cl. pasteurianum* in symbiosis with *B. clostroides* lose both spore-forming and N-fixing powers of *Cl. pasteurianum*. But fresh symbiotic cultures fix N independently of the combined N content in the medium. In presence of yeast autolysate, N fixation reached 406 mg./l. Loss of N-fixing power is retarded by Mo salts (e.g., $(NH_4)_2MoO_4$ or Na_2MoO_4); the optimum concn. is 10 mg./l. I. F. S.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

1. RABOTNOVA, I. L.

2. USSR (600)

4. Plants - Metabolism

7. Basic aspects of "bio-energy" of plants. V. O. Tauson. Reviewed by I. L. Rabotnova. Mikro-biologiia 22, No. 1, 1953.

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

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

Rabotnova, I. L.

Substrate nitrification by growth of Azotobacter beijerinckii. I. L. Rabotnova and G. S. Rodionova (M. V. Lomonosov State Univ., Moscow). *Mikrobiologiya* 22, 415–22 (1953).—Growth of *A. beijerinckii* (cultured from rye roots) is rapid in well-aerated N-free liquid media, but poor in thin layers of immobile liquid. At the optimum [illegible] growth reaches 200–400 million cells/ml. in N-

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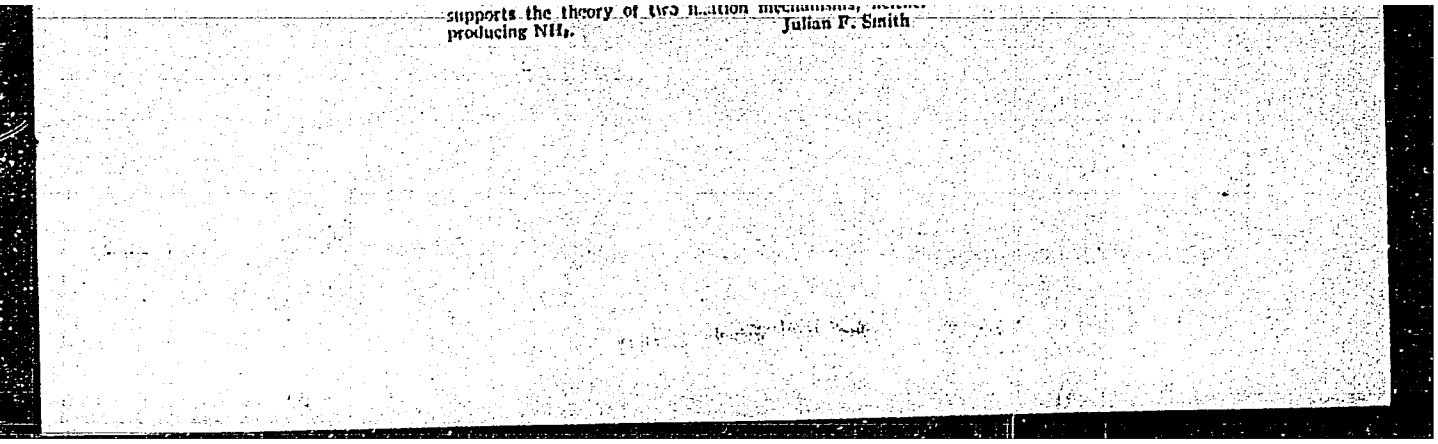

supports the theory of the reaction mechanism, namely
producing NH_2.

Julian F. Smith

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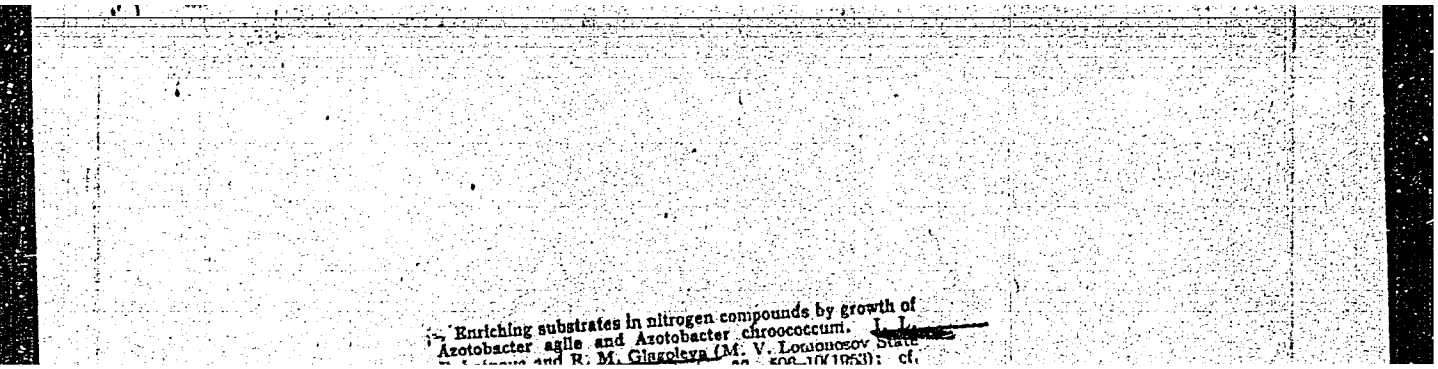

Enriching substrates in nitrogen compounds by growth of Azotobacter agile and Azotobacter chroococcum. [redacted] and R. M. Gisgoleva (M. V. Lomonosov State [illegible] cf.

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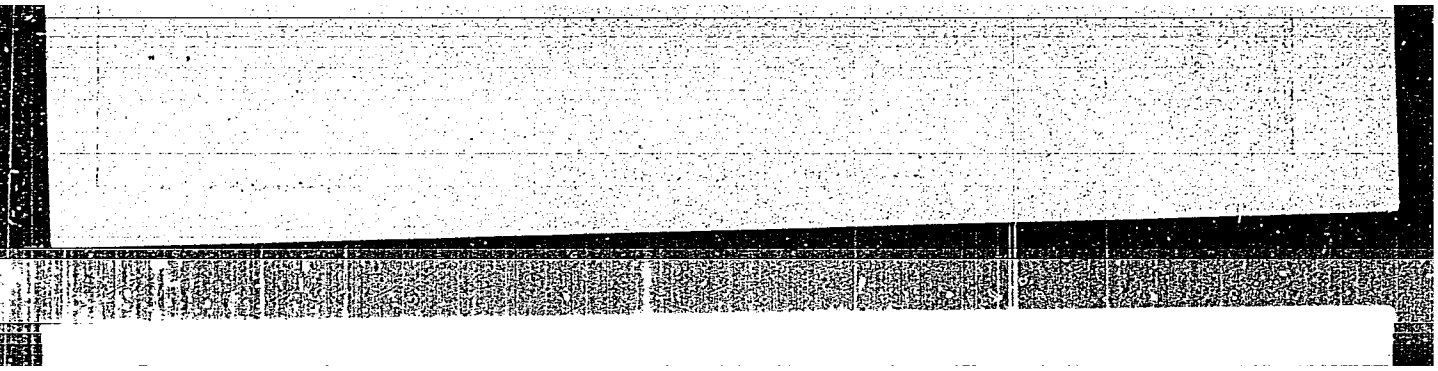
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343



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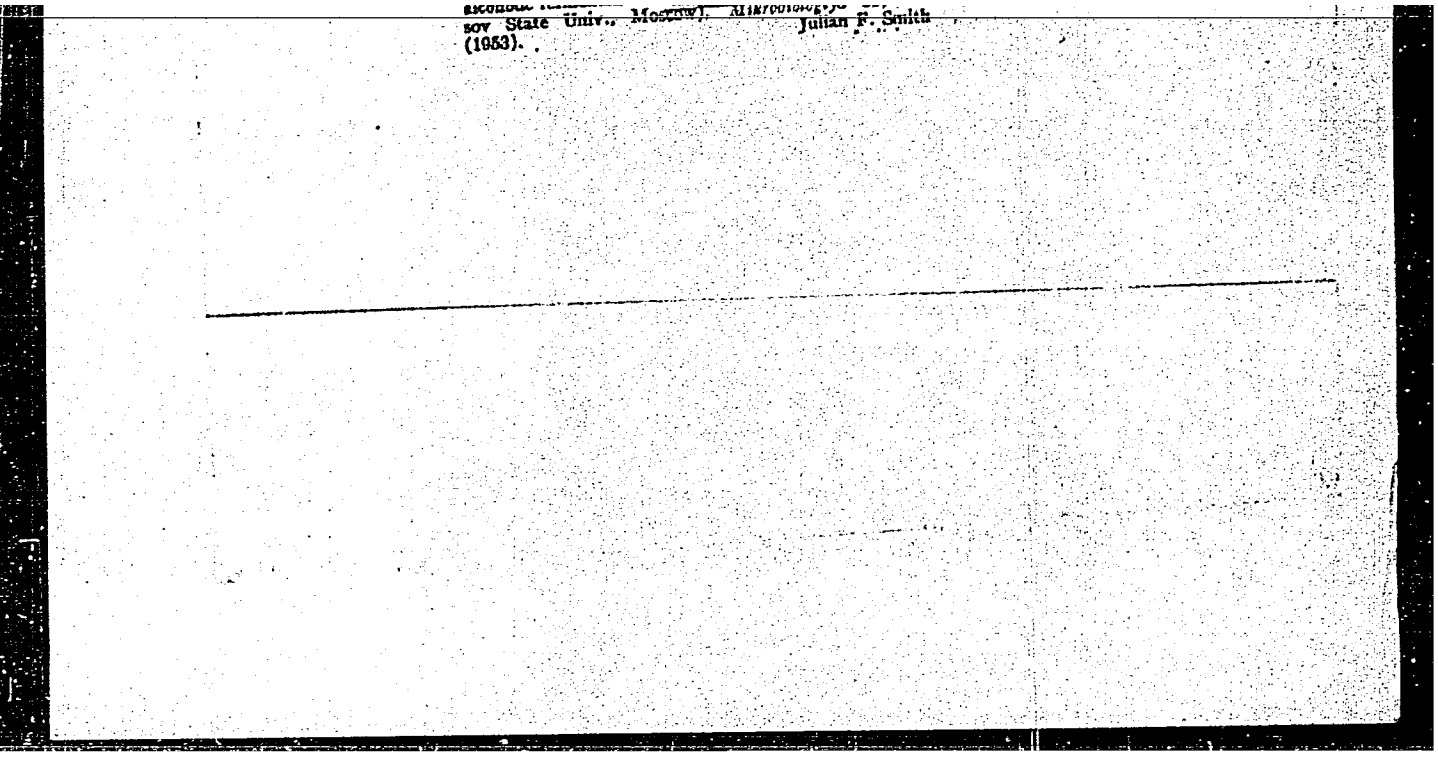
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343



sov State Univ., Mos[illegible] Julian F. Smith
(1953).

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I.L.

Data on the history of the development of technical microbiology in the U.S.S.R. Microbiology of wine making. Mikrobiologiia 23 no.1:99-108 Ja-F '54. (MLRA 7:2)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. Biologo-pochvennyy nauchno-issledovatel'skiy institut.
(Microbiology) (Wine and wine making)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I.L.

Materials on the history of technical microbiology in the U.S.S.R. Microbiology in the baking of bread. Mikrobiologiia 23 no.2:221-227 Mr-Ap '54. (MLRA 7:4)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. Biologo-pochvennyy nauchno-issledovatel'skiy institut. (Microbiology) (Bread)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I. L. FD 30

USSR/Biology

Card 1/1

Author : Rabotnova, I. L.

Title : Data on the history of technological microbiology in the USSR. Microbiology in the alcohol industry

Periodical : Mikrobiologiya, 23, 349-360, May/Jun 1954

Abstract : This article is a historical review of the role of microbiology in the development of the alcohol industry in the USSR. Emphasis is laid on Russian, and especially Soviet, "firsts." The names of investigators, the locations of many of their laboratories, and brief summaries of their work are given. There is an extensive bibliography containing 75 Soviet entries.

Institution : Moscow State University imeni Lomonosov; Biologico-Soil Scientific Research Institute

Submitted : April 19, 1953

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I.L.

Data on history of industrial microbiology; microbiology in brewing industry. Mikrobiologiia 23 no.4:493-497 Jl-Ag '54. (MLRA 7:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova Biologo-pochvennyy nauchno-issledovatel'skiy institut.

(MICROBIOLOGY, history, Russia)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I.L.

History of technical microbiology in U.S.S.R. III. Microbiology of wine making. I. L. Rabotnowa (*Allt. VersSta. Gärungsgew.*, 1955, 9, 197—202; cf. J.S.F.A. Abstr., 1955, ii, 289).—A review with 86 references. P. S. ARUP.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

Kabotnova I. L.

MD

Requirements of anaerobic bacteria in the oxidation-reduction conditions of mediums, I. L. Rabotnova, E. O. Toropova, and M. Yu. Rabaeva (M. V. Lomonosov State Univ., Moscow), *Mikrobiologiya* 24, 525–31(1955).—The putrefactive anaerobes *Clostridium sporogenes* and *Bacillus putrificus* can develop in broth exposed to air if the tube is filled 5–6 cm. deep and the medium is thickened with 0.2% agar. The initial rH of 20–22 drops to 1–2, and in the stage of rapid decrease (first few hrs.) proliferation stops but the cells grow larger, mainly in length. If rH is held to 5 or higher for *C. sporogenes* or to 3 or higher for *B. putrificus*, proliferation does not begin again after the first-stage stoppage, showing that these are obligate anaerobes. Proliferation is not inhibited by such rH indicators as neutral red, Janus green, phenosafranine, indigo di- or tetrasulfonate, or methylene blue (titrations with $Na_2S_2O_4$ or ascorbic acid). Reducing power is not limited to the medium, but is also exerted by the living cells. Spores can grow at rH 20.8 but are inhibited at rH 21.8; with *C. sporogenes* formation of giant cells occurs at rH 3–5. Julian F. Smith

3

Biol Soil Faculty

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

Rabotnova, I. L.

The lag stage and oxidation-reduction potential in cultures of anaerobes. I. L. Rabotnova and N. A. Pryanishnikova (Moscow State Univ.). *Mikrobiologiya* 24, 671–6(1955).—In cultures of obligative anaerobes (*Clostridium sporogenes* and *C. acetobutylicum*) and facultative anaerobes (*Bacillus macerans*) a reducing agent will lower rH and accelerate proliferation, thus shortening the lag stage; as little as 0.01% $Na_2S_2O_4$ can be effective. Ascorbic acid and glucose act similarly; or the lag phase can be buffered at $rH \approx 16$ (approx.) for long duration, with thionine. Conversely, oxidizing agents delay or prevent transition from the lag stage to active proliferation. Julian F. Smith—

MP

(2)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

Name: RABOTNOVA, Irina Leonidovna

Dissertation: Significance of pH and oxiditation-reduction conditions for the development and metabolism of micro-organisms

Degree: Doc Biol Sci

Affiliation: [not indicated]

Defense Date, Place: 14 May 56, Council of Moscow Order of Lenin and Order of Labor Red Banner State U imeni Lomonosov

Certification Date: 18 May 57

Source: BMVO 15/57

RABOTNOVA, I L

N/5
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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R00134

Rol' fiziko*khimicheskikh usloviy (fN i gN2) v zhiznedeyatel'nosti mikroorganizmov [The effect of physical-chemical properties (rN and gN2) in the activities of micro-organisms] Moskva, Izd-vo Akademii Nauk SSSR, 1957.

274 p. diagrs., tables.

Athead of title: Akademiya Nauk SSSR. Institut Mikrobiologii.

Bibliographies at the end of most chapters.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I.L.

Ability of micro-organisms to change the conditions of the medium in accordance with their needs. Trudy Inst. mikrobiol. no.5:80-95 '58 (MIRA 11:6)

1. Kafedra mikrobiologii biologo-pochvennogo fakul'teta Moskovskogo gosudarstvennogo universiteta imeni Lomonosova.
(MICRO-ORGANISMS,
adaptation of medium to requirements, review (Rus))

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I.L.

"Introduction to bacterial physiology" [in English] by C.E. Clifton. Reviewed by I.L. Rabotnova. Mikrobiologiia 27 no.6:753-754 N-D '58. (MIRA 12:1)

(BACTERIA) (CLIFTON, C.E.)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

COUNTRY : USSR
CATEGORY :

ABS. JOUR. : RZhBiol., No.3 1959, No. 10040

AUTHOR : Rabotnova, I. L.
INST. : Institute of Microbiology of the Academy of Sciences USSR
TITLE : Active Change of the Conditions of the Medium by Microorganisms in Accordance with Their Requirements

ORIG. PUB. : Tr. In-ta mikrobiol. AN SSSR, 1958, No 5, 80-95

ABSTRACT : A review constructed on the basis of an analysis of the data in the literature and the experimental material of the author. Active change of the surrounding medium by microorganisms is regarded through the example of a change in the pH and Eh of the medium by them. Bibliography. 60 titles. -- I. V. Kalakutskiy

Card: 1/1

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I.L.; ZAYTSEVA, G.N.; MINEYEVA, L.A.

Study of the lag phase in micro-organisms. Report No.3: Changes in the cells of Azotobacter grown on molecular and ammonia nitrogen. Mikrobiologiia 28 no.5:683-689 S-O '59. (MIRA 13:2)

1. Kafedra mikrobiologii i kafedra biokhimii rasteniy Moskovskogo gosudarstvennogo universiteta im M.V. Lomonosova.
(AZOTOBACTER culture)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I.L.; ZAYTSEVA, G.N.; MINEYEVA, L.A.

Study of the lag-phase in micro-organisms. Report No.2: Changes in cells of Torula utilis and Pseudomonas fluorescens during the lag phase. Mikrobiologiia 28 no.4:481-487 Jl-Ag '59. (MIRA 12:12)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.
(CRYPTOCOCCUS)
(PSEUDOMONAS)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I.L.; MINEYEVA, L.A.

Study of the lag phase in micro-organisms. Report No.1: Influence of external conditions on the duration of the lag phase in Torulopsis utilis and Pseudomonas fluorescens. Mikrobiologiia 28 no.3:352-357 My-Je '59. (MIRA 13:3)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

(CRYPTOCOCCUS, culture
Torulopsis utilis, eff. of external cond. on length of lag phase (Rus))
(PSEUDOMONAS, culture
fluorescens, eff. of external cond. on length of lag phase (Rus))

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I.L.

Celebration in honor of Vladimir Nikolaevich Shaposhnikov. Mikrobiologiia 28 no.3:468-470 My-Je '59. (MIRA 13:3)
(BIOGRAPHIES
Shaposhnikov, Vladimir No. (Rus))

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I.L.; KUPLETSKAYA, M.B.; KUZNETSOVA, V.M.

Microbiological maceration of eucommia leaves. Report No.1: Optimum conditions for maceration by an active complex of micro-organisms. Mikrobiologiia 28 no.6:874-880 N-D '59. (MIRA 13:4)

1. Kafedra mikrobiologii Moskovskogo gosudarstvennogo universiteta i Nauchno-issledovatel'skiy institut rezinovykh izdeliy shirokogo potrebleniya.
(EUCOMMIA) (FERMENTATION) (GUTTA-PERCHA)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I.L.

Accomodative metabolism in micro-organisms. Zhur. ob. biol. 21 no.5:313-321 S-O '60. (MIRA 13:9)

1. Chair of Microbiology, the State University, Moscow.
(MICRO-ORGANISMS) (METABOLISM)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I.L.; KUPLETSKAYA, M.B.; KUZNETSOVA, V.M.

Microbiological maceration of eucommia leaves. Report No.2: Causative agent of the "fermentation" of eucommia leaves. Mikrobiologiia 29 no.1:129-132 Ja-F '60. (MIRA 13:5)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.
(FUNGI)
(PLANTS microbiol.)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I. L., PLAKUNOVA, V. G. (USSR).

The Reductons of Microorganisms.

report presented at the 5th Int'l.
Biochemistry Congress, Moscow, 10-16 Aug. 1961

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I.L.; BALITSKAYA, R.M.; BELOZERSKAYA, N.A.; DISLER, Ye.N.; ZLOCHEVSKAYA, I.V.

Intravital isolation reducing substances in cultures. Mikrobiologiia 30 no.1:3-8 Ja-F '61. (MIRA 14:5)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V.Lomonosova.
(MICRO-ORGANISMS) (OXIDATION, PHYSIOLOGICAL)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

ALIAN, Akhmed; RABOTNOVA, I.L.; NIKOLAYEV, P.I.; IVANOV, V.A.

Submerged cultivation of acetic acid bacteria under different aeration conditions. Mikrobiologiia 32 no.4:703-710 Jl-Ag '63. (MIRA 17:6)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I.L.; PLAKUNOVA, V.G.; PALEYEVA, M.A.; SHENDEROVA, L.V.

Causes of a decrease in redox potential in cultures of microorganisms. Mikrobiologiia 32 no.6:954-960 N-D '63
(MIRA 18:1)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

GRECHUSHKINA, N.N.; RABOTNOVA, I.L.

Role of oxygen in the metabolism of Lactobacterium pento aceticum cultivated in brewing wort. Vest. Mosk. un. Ser. 6: Biol., pochv. 19 no.4:44-47 Jl-Ag '64. (MIRA 17:12)

1. Kafedra mikrobiologii Moskovskogo universiteta.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

GRECHUSHKINA, N.N.; RABOTNOVA, I.L.

Secretion of reducing agents by sporeforming aerobic bacteria.
Vest. Mosk. un. Ser. 6: Biol., pochv. 19 no.5:28-35 S-O '64.
(MIRA 17:12)

1. Kafedra mikrobiologii Moskovskogo universiteta.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

BEREZOVA, Ye.F.; NAKHIMOVSKAYA, M.I.; RYBALKINA, A.V.; RABOTNOVA, I.L.; MESSICHEVA, M.A.

David Moiseevich Novogrudskii, 1898-1953; on the 10th anniversary of his death. Mikrobiologiia 33 no.2:379-381 Mr-Ap '64. (MIRA 17:12)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

ALIAN, Akhmed; RABOTNOVA, I.L.

Continuous submerged culture of Acetobacter aceti in a synthetic medium. Mikrobiologiia 33 no.4:705-712 Jl-Ag '64.
(MIRA 18:3)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni Lomonosova.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, I.L.

Reviews. Mikrobiologiia 33 no.6:1089-1090 N-D '64.
(MIRA 18:4)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

L 36427-66 EWT(1)/EWT(m)/T DJ/WE/JK

ACC NR: AP6015207 (A) SOURCE CODE: UR/0411/65/001/002/0167/0174

40
37
B

AUTHORS: Nette, I. T.; Grechushkina, N. N.; Rabotnova, I. L.

ORG: Biological Soil Science Faculty, Moscow State University (Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta)

TITLE: The growth of certain mycobacteria in petroleum and petroleum products

SOURCE: Prikladnaya biokhimiya i mikrobiologiya, v. 1, no. 2, 1965, 167-174

TOPIC TAGS: microbiology, petroleum residue, fuel microorganism

ABSTRACT: Research into the nature of cultures of microorganisms actively using petroleum products was initiated because fuels and lubricants can acquire desirable new properties due to the action of these microorganisms. Soils from petroliferous areas of the Ukraine and the Tatar and Moscow areas, vaseline and spindle oils, MC-20 and MT-16 p oils were used for isolating the microorganisms. A liquid medium of the following composition was used (%): NH_4NO_3 -- 0.1; KH_2PO_4 -- 0.02; $MgSO_4$ -- 0.01; NaCl -- 0.01. Tap water pH after sterilization was 7.2--7.5, and oils introduced into the medium made up 1%. Isolation was performed under varying conditions of aeration--stationary and oscillating at 30C, and growth time was reduced from 7--14 days to 4--7 days under the more aerated conditions. The tabulated results show that 76 pure cultures actively utilizing hydrocarbons were isolated, the majority of them

Card 1/2 UDC: 613.663+576.852.2

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L 36427-66

ACC NR: AP6015207

3

being mycobacteria with the dominant strains being close to Mycobacterium mucosum and Mycobacterium lacticolum. Cultures were grown in about 5 ml of the following medium (%): NH_4NO_3 -- 0.4; $MgSO_4$ -- 0.08; KH_2PO_4 -- 0.06; Na_2HPO_4 -- 0.14; tap water pH -- 7.2--7.3, with the addition of 1--2 drops of sterile hydrocarbon mixture at 28--30C for 7--10 days. Results show that the cultures most active in the use of petroleum and petroleum products were M. mucosum, M. lacticolum, and 3 strains of bacteria which grow well in all mixtures except in heavy, nonparaffin naphthene petroleum. Results of growing microorganisms in individual hydrocarbons show that all cultures used basically only paraffin. Mycobacteria were most active in utilizing individual hydrocarbons and hydrocarbon mixtures, with M. mucosum and M. lacticolum being most active, particularly in the use of gases. The majority of strains grew in C_1-C_4, C_6-C_{10}, C_{12} and C_{16} alkanes, phenol, xylene, and toluyl, but not in cyclohexane, naphthalene, a-methylnaphthalene, and benzol. Ethylene and isooctane were used only by certain strains. Many strains of M. lacticolum growing in individual hydrocarbons and gases form red and orange pigments, indicating the possibility of the accumulation of carotinoids in hydrocarbons. The authors thank K. I. Bessmertnyy for supplying oils and fuels, and they also thank microbiology students K. A. Nikitina and S. M. Shust for participating in obtaining the cultures. Orig. art. has: 4 tables.

SUB CODE: 21, 06/ SUBM DATE: 30Nov64/ ORIG REF: 005/ OTH REF: 011

Card 2/2 bb

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

GRECHUSHKINA, N.N.; NIKITINA, K.A.; RABOTNOVA, I.L.

Study of the physiology of Mycobacterium lacticolum strain 35 as related to the use of hydrocarbons. Prikl. biokhim. i mikrobiol. 1 no. 6:627-634 N-D '65. (MIRA 18:12)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, biologo-pochvennyy fakul'tet. Submitted Dec. 29, 1964.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

L 27402-66 EWT(1)/T JK

ACC NR: AP6017700 SOURCE CODE: UR/0220/65/034/002/0200/0203

AUTHOR: Grechushkina, N. N.; Nikitina, K. A.; Rabotnova, I. L. 29

ORG: Biology-Soil Faculty, Moscow State University im. M. V. Lomonosov (Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta) B

TITLE: Factors underlying the decrease of the redox potential in cultures of sporogenous aerobic bacteria

SOURCE: AN SSSR. Mikrobiologiya, v. 34, no. 2, 1965, 200-203

TOPIC TAGS: bacteria, bacteriology, plant metabolism

ABSTRACT: In experiments on the culturing of Bacillus mesentericus, Bac. brevis, Bac. cereus, and Bac. simplex, it was established that the decrease in the rH_2 of the medium during culturing was associated with an increase in the content of reducing substances formed by the bacteria. However, aeration of the cultures also had an effect: the rH_2 decreased to a greater extent during culturing in test tubes than during cultivation in flasks. The effect of aeration could be seen most clearly in connection with the culturing of Bac. Mesentericus on a dulcite medium, i.e., under conditions in which reducing substances are not formed. The rH_2 was lower when Bac. mesentericus was cultured in test tubes, because the aeration was less effective. For bacteria of the group investigated, aeration probably had a greater effect on the rH_2 than the formation of reducing substances. Orig. art. has: 4 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 30Mar64 / ORIG REF: 004

Card 1/1 UDC: 576.851.51.098

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

ACC NR: AP6033912 SOURCE CODE: UR/0220/66/035/005/0805/0811

AUTHOR: Avakyan, Z. A.; Rabotnova, I. L.

ORG: Soil Biology Department, Moscow State University im. M. V. Lomonosov (Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta)

TITLE: Determining concentrations of copper toxic for microorganisms

SOURCE: Mikrobiologiya, v. 35, no. 5, 1966, 805-811

TOPIC TAGS: toxicity, bactericide, copper compound, ~~T. utilis~~ pH, MICROORGANISM

ABSTRACT: This study concerned determination of the concentration of copper in various nutrient media, and of the concentration required to kill *T. utilis*. It was found that in nutrient media (I, II, V, VI) with mannitol, sucrose, and glycerol at pH 6.0—7.0, copper is precipitated as a salt and cannot be detected in the solution. However, in the same media at pH 5.0, copper is present in solution.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

ACC NR: AP6033912

Polarography showed that in media with asparagine and citrates at pH 7.0, copper is found in the solution in the form of an asparagine or citrate complex. Growth of *T. utilis* was found to be completely inhibited on a glycerol-containing medium (VI) with a copper concentration of 40 mg/l. Finally, the resistance of *T. utilis* to copper was not increased after 50 transfers on medium VI containing copper.

[WA-50; CBE No. 14]
[EL]

SUB CODE: 06/ SUBM DATE: 15Mar66/ ORIG REF: 001/ OTH REF: 005

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

BARKOV, V.Ye.; BYKHOVSKIY, Ya.L.; GRZHIBOVSKIY, V.V.; PAVLYCHEV, L.Ye.; RABOTNOVA, K.A.; SOKOLOV, V.B.; SOLOV'YEV, P.N.; KHERSONSKIY, D.S.; ZVENIGORODSKIY, I.S., red.; SAVEL'YEV, V.I., red.; BORUNOV, N.I., tekhn.red.

[Safety rules in the construction and use of communication structures and equipment] Pravila tekhniki bezopasnosti pri ekspluatatsii i stroitel'stve sooruzhenii i ustroistv sviazi. Moskva, Gos.energ. izd-vo, 1959. 103 p. (MIRA 13:4)

1. Russia (1923- U.S.S.R.) Ministerstvo stroitel'stva elektrostantsiy. Tekhnicheskoye upravleniye. 2. Tekhupravleniye Ministerstva elektrostantsiy (MES) (for Berkov). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut energetiki (VNIIE) (for Bykhovskiy, Pavlychev, Sokolov). 4. Gosudarstvennyy trest po organizatsii i ratsionalizatsii elektrostantsiy (ORGRES) (for Grzhibovskiy). 5. Leningradskoye rayonnoye upravleniye energokhozyaystva (Lenenergo) (for Rabotnova). 6. Moskovskoye rayonnoye upravleniye energokhozyaystva (for Solov'yev, Khersonskiy).
(Electric engineering--Safety measures)
(First aid in illness and injury)

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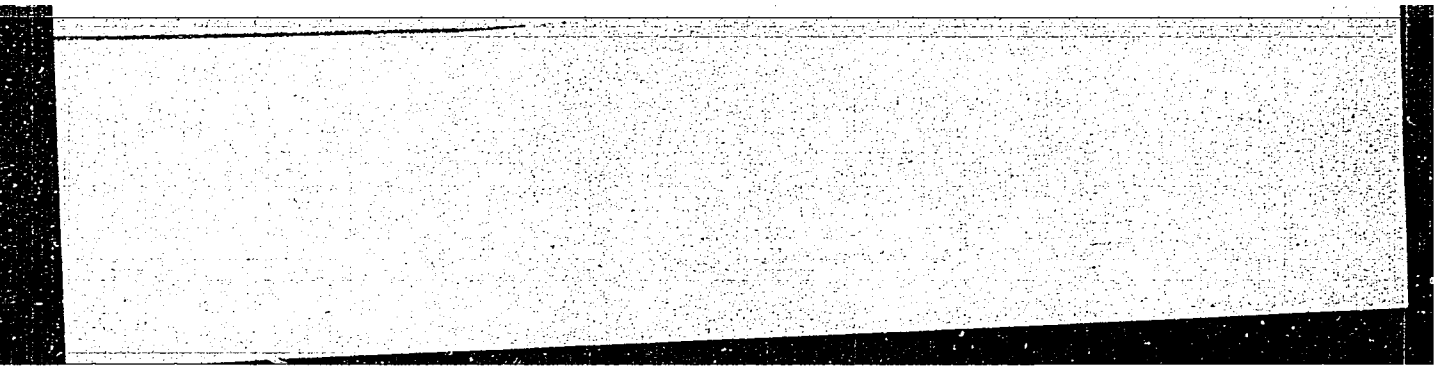
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343



APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, T. N.

RABOTNOVA, T.N., kand. tekhn. nauk; SIZOVA, L.A., inzh.

New types of industrial phototubes. Svetotekhnika 4 no.1:3-11 Ja '58. (MIRA 11:1)

1. Moskovskiy elektrolampovyy zavod.
(Photoelectric cells)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTNOVA, T.N., kand.tekhn.nauk; KONONCHUK, L.V., inzh.

Data on parameters and technical characteristics of phototubes with multislot cathodes. Svetotekhnika 5 no.9:1-7 S '59. (MIRA 13:2)

1. Moskovskiy elektrolampovyy zavod.
(Photoelectric cells)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOTSKIY, G.Ya., kapitan med.sluzhby

Eliminating a focus of infectious nephrosonephritis. Voen.-med. zhur. no.12:41-42 D'55 (MIRA 12:1)
(HEMORRHAGIC FEVER)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

17(14) SOV/177-58-11-43/50

AUTHOR: Rabotskiy, G.Ya., Captain of Medical Corps

TITLE: The Application of Novikov's Antiseptic Liquid in Tank Units

PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Nr 11, p 88 (USSR)

ABSTRACT: The author writes that for 2 years Novikov's antiseptic liquid has been used in tank units for treating fresh wounds in order to prevent purulent processes. About 5 minutes after the liquid has been applied to the injured part of the skin and the adjacent surface, a dense elastic film develops which protects the wound from external influences. The application of Novikov's antiseptic liquid reduced the sick rate due to purulent processes by half within the 1954/56 period.

Card 1/1

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Prostoyev (pyeryedobaya). Sakhar. Prom-St' 1949, No. 8, C-1-3

SO. LETOPIS' NO. 34

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

L 14255-63 EWT(l)/FBD/FCC(w)/BDS/EEC-2/EED-2/ES(v) AFFTC/APGC/ASD/
ESD-3 Pe-4/Pi-4/Pj-4/Pk-4/Pl-4/Pm-4 PT-2/WR

ACCESSION NR: AP3004417 S/0020/63/151/004/0811/0814 10 98

AUTHOR: Kotel'nikov, V. A.; Dubrovin, V. M.; Dubinskiy, B. A.; Kislik, M. D.; Kuznetsov, B. I.; Petrov, G. M.; Rabotyagov, A. P.; Rzhiga, O. N.; Shakhovskoy, A. M.

TITLE: Radar observations of the planet Mars in the Soviet Union

SOURCE: AN SSSR. Doklady*, v. 151, no. 4, 1963, 811-814

TOPIC TAGS: Mars radar observations, Mars reflected-signal spectrum, Mars Doppler-frequency shift, Mars rotation time, Mars reflection coefficient

ABSTRACT: Radar observations of Mars' northern hemisphere from 14°30' to 14° latitude and from 310 to 360° and from 0 to 140° longitude were carried out in the Soviet Union on 6—10 February 1963 at a frequency of approximately 700 Mc. The polarization of radiated waves was circular, with antenna polarization changing to linear during reception. The energy of the signal incident on the visible surface of Mars was 1.2 w. Both transmission and reception lasted approximately 11 minutes. The signal had the shape of alternate rectangular transmissions and intervals of a duration of 4.096 sec each, at two frequencies

Card 1/2

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ACCESSION NR: AP3004417 10

differing by 62.5 cps. The signals were recorded on a magnetic tape together with a 2000-cps oscillation, which served as a scale. Receiver sensitivity was calibrated before and after operation on the basis of Cassiopeia-A discrete-source radiation. The correction for frequency shift due to the Doppler effect was regulated by an electronic digital frequency meter. In all, 99 obse. ations were made, and the signal reflected from Mars was reliably detected on the nights of February 7—8 (28 observations) and February 8—9 (20 observations). The results of spectral analysis of these 48 observations, carried out with 4-cps filters and a storage time of 8.5 hr, are shown in Fig. 1 of the Enclosure. In the reflected signal spectrum, there is a narrowband component whose energy exceeded by 4 times the RMS measurement error caused by noise. The average reflection coefficient, determined as the ratio of the reflected-signal energy to received-signal energy under the assumption that Mars was an even, ideally conductive sphere, was found to be 7%. "The authors thank L. V. Apraksin, V. O. Voytov, M. M. Dedlovskiy, G. A. Zhurkina, A. M. Lukin, M. M. Sinodkin, B. A. Stepanov, A. V. Frantsesson, D. M. Tsvetkov, and I. A. Sharabarin for their assistance." Orig. art. has: 3 figures, 1 table, and 1 formula.

Association: Inst. of Radio and Engineering and Electronics

Card 2/42

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOV, STEFAN

Rabov, Stefan Uchebnik po telefonna tekhnika za VII klas na mekhano-elektrotekhnicheskite gimnazii. Sofiya, Narodna prosveta, 1951. 215 p. (Principles of telephone constructions and usage; a textbook for mechanicotechnical high schools)

SO: Monthly List of East European Accessions, L C, Vol. 3 No. 1 Jan. '54 Uncl.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOV, STEFAN

"Uchebnik po avtomatichna telefoniia (avtomatichni telefonni tsentrali) za V kurs na otdel slabi tokove pri tekhnikumite po elektrotekhnika. Sofiya (Narodna prosveta) 1952. 155 p. (Automatic telephony; automatic telephone exchanges; a textbook for the fifth year of electrotechnical schools. Illus.)

SO: Monthly List of East European Accessions, L.C. Vol. 2 No. 7, July 1953, Uncl.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOV, S.

"Device for measuring the time for starting the electromagnetic relay."

p.13 (Tekhnika, Vol. 7, no. 2, 1958, Sofiia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOV St.; EMANUILOV, Emanuil; PEICHEV, Veselin

Electric parameters of some compensation and bridge speech systems of the TsB telephone apparatus. Godishnik mash elekt 12 no. 2:107-120 '62 [publ. '63].

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOV, Stefan, inzh.

Construction of universal teletypes. Tekhnika Bulg 12 no.5: 4-7 '63.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOV, V.K., mladshiy nauchnyy sotrudnik.

Morphological changes in the hip joint following an experimental surgical deepening of the acetabulum. Ortop. travm. i protez. 24 no.2:27-33'F'63. (MIRA 16:10)

1. Iz otdeleniya ortopedii vzroslykh (zav. - dotsent A.Ya. Demidov) i patologoanatomicheskoy laboratorii (zav. - kand. med. nauk L.S.Monogenova) Saratovskogo instituta travmatologii i ortopedii (dir. - dotsent Ya.N.Rodin). Adres avtora: Saratov, ul. Chernyshevskogo d. 148, Institut travmatologii i ortopedii.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

KRONROD, A. S., RABOVA, Z. S., and SUKHATSHEVA, N. M.

"Two Problems of Non-Diffusional Calculations for Absorbing Blocks."

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, in Geneva, 1 - 13 Sep 58.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOVIK, JA. J.

"On the Chemistry of Gallium I. On the Acid Properties of Gallium Hydroxide." Ivanov-Emin, B. N. and Rabovik, Ja. J. (p. 781)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1944, Volume 14, no. 7-8.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

Chemistry of gallium. II. Hydroxygallates of alkali and alkaline earth metals. B. N. Ivanov-Emin and Ya. I. Rabovik (M. V. Lomonosov Inst. Fine Chem. Technol., Moscow). *J. Gen. Chem.* (U.S.S.R.) 17, 1061–9(1947)(in Russian); cf. *C.A.* 39, 5155⁵.—Addn. of excess freshly pptd. $Ga(OH)_3$ to 10 ml. satd. LiOH, boiling, filtration from undissolved $Ga(OH)_3$ and evapn. to 1.5–2 ml. gave crystals which, after washing with alc. and short drying, analyzed $Li_2O.Ga_2O_3.12H_2O$ or $[Li(H_2O)_4][Ga(OH)_4]$, hexagonal plates of d. 2.17–2.18, n_D 1.473. The compd. loses H_2O even at room temp.; over H_2SO_4, it loses $4H_2O$; at 110°, 3 hrs., it loses $6H_2O$ more; these dehydrations evidently result in $[Li(H_2O)_4][Ga(OH)_4]$ and $Li_2O.Ga_2O_3.2H_2O$, resp. Further heating results in the final, irreversible dehydration to $Li[GaO_2]$; fusing with Li_2SO_4 at 1000–1100° for 20 hrs. gives rounded crystals, hardly sol. in H_2O. (2) Soln. of $Ga(OH)_3$ in excess NaOH gives a product with Na:Ga = 1:1. With a deficit of NaOH, evapn. gives a sirupy mass which can only be made to solidify over P_2O_5 or by boiling with abs. alc. for 3 hrs.; the latter operation gives a product of the compn. $Na[Ga(OH)_4]$ but not in well-formed crystals. Calcination of finely ground Ga_2O_3 with Na_2CO_3 in a Pt crucible at 850–1000°, 15–30 min., gives $Na[GaO_2]$; excess carbonate remains unchanged. The Na metagallates dissolve in H_2O easily without significant hydrolysis; they are easily hydrated to $Na[Ga(OH)_4]$, which is reversibly dehydrated at 140°, 40 min.; thermography showed that this dehydration takes place at 117–20°; there also appears an as yet unexplained endothermal effect at 170°. (3) $K[Ga(OH)_4]$ was prepd. by dissolving 1.5 g. $Ga(OH)_3$ in 10 ml. 50% KOH and long evapn. over H_2SO_4; monoclinic or triclinic crystals, d. 2.56, n_γ 1.509, n_α 1.485. Heating to 300° results in $K[GaO_2].1.5H_2O$, heating to 400°, in $K[GaO_2].H_2O$. The last H_2O is hard to eliminate at higher temp. (4) Pure $3CaO.Ga_2O_3.12H_2O$, or $Ca_3[Ga(OH)_6]_2.6H_2O$, was obtained by adding a soln. of $Na[Ga(OH)_4]$ to a boiling satd. soln. of $Ca(OH)_2$; hexagonal plates, d. 2.38, n_γ 1.561, n_α 1.546. Addn. of a soln. of $Na[Ga(OH)_4]$ to a cold satd. soln. of $Ca(OH)_2$ gives fine cryst. spherolites of d. 2.35, mean n 1.565, analyzing $4CaO.Ga_2O_3.13.5H_2O$. No pptn. occurs on adding $Na[Ga(OH)_4]$ to 20% $CaCl_2$; however, addn. of NH_4OH does ppt. $4CaO.Ga_2O_3.21H_2O$ (analogous to the Al compd.), fine spherolitic crystals. Reaction between $CaCl_2$ and warm $K[Ga(OH)_4]$ gives impure cubic crystals strongly contaminated with $Ca(OH)_2$ and resembling $Ca_3[Al(OH)_6]_2$. (5) No pptn. occurs between dil. $K[Ga(OH)_4]$ and dil. $SrCl_2$ but addn. of the latter to hot concd. $Sr(OH)_2$ ppts. $Sr_3[Ga(OH)_6]_2$, rhombic dodecahedra, d. 3.54, n 1.625. **III. Thiogallates of alkali metals.** *Ibid.* 1247–52.—(1) Li_2CO_3 (or Na_2CO_3) in equimol. mixt. with Ga_2O_3, heated in a stream of dry H_2S, 2–3 l./hr., 2 hrs. at 800°, then 4 hrs. at 900°, and cooled under H_2S, gave light-brown masses with distinct cryst. structure: $Li_2[Ga_2S_4]$, brown-red, m. 1020 ± 5°, apparently rhombic plates and prisms, highly birefringent, $n > 1.78$, d. 2.98, does not react with boiling H_2O; $Na_2[Ga_2S_4]$, dark yellow, m. 952° ± 2°, tetragonal prisms, highly birefringent, $n > 1.78$, d. 2.86, partly sol. in H_2O, going over into $Na_2[Ga_2S_4].2H_2O$ on moistening and drying over $CaCl_2$. (2) Ga_2O_3 was heated with 8 parts K_2CO_3(Rb_2CO_3, Cs_2CO_3) and 8 parts S under CO_2, 15 min. at 450°, then 2–3 min. at 1100°, leached with H_2O, and the insol. thiogallates were washed with H_2O and alc. and dried over $CaCl_2$: $K_2[Ga_2S_4]$, tetragonal, m. 985° ± 2°, yellow, medium birefringence, $n > 1.74$, does not react with H_2O; $Rb_2[Ga_2S_4]$, yellow-brown, tetragonal, m. 980° ± 2°, highly birefringent, $n > 1.78$, d. 3.42; $Cs_2[Ga_2S_4]$, rhombic, light yellow to bright red pleochroic, m. 980° ± 5°, highly birefringent, $n > 1.78$, d. 3.56, does not react with H_2O. Li and Na thiogallates cannot be prepd. by this method, only by (1). (3) All thiogallates are stable in

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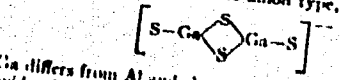
air; they are decompd. by strong acids with evolution of H_2S. (4) By the thiogallate anion type,



Ga differs from Al and shows an analogy with In and Tl, evidently owing to the 18-electron shell of the ion, in contrast to the 8 outer electrons of Al^{+++}.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

AUTHORS: Ivanov-Emin, B. N., Rabovik, Ya. I. SOV/78-3-10-35/35

TITLE: Hexamolybdenum Gallates of Alkali Metals(Geksamolibdato-gallaty shchelochnykh metallov)

PERIODICAL: Zhurnal neorganicheskoy khimii 1958, Vol 3, Nr 10, pp 2429-2432 (USSR)

ABSTRACT: The production of potassium and ammoniumhexamolybdenum gallate was carried out in the weakly acid medium when solutions formed by potassium molybdate (ammonium molybdate) and gallium sulfate were heated. The compounds have the following composition:

$$3\ K_2O.Ga_2O_3.12MoO_3.20\ H_2O$$

$$3(NH_4)_2O.Ga_2O_3.12MoO_3.20\ H_2O$$

It follows from the analyses of the molecular conductivity that alkalihexamolybdenum gallates consist of four ions. The following coordination structure was suggested for potassium and ammoniumhexamolybdenum gallates:

$$K_3[Ga(HMoO_4)_6].\ 7\ H_2O$$

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Hexamolybdenum Gallates of Alkali Metals SOV/78-3-10-35/35

$(NH_4)_3[Ga(HMoO_4)_6] \cdot 7\ H_2O$

When dried, hexamolybdenum gallates of potassium and ammonium lose seven mol water at 110-120° C. The water of constitution is removed not before a temperature of 250°C has been reached. These investigations show that hexamolybdenum gallates of potassium and ammonium are analogous to the corresponding aluminum compounds. There are 1 figure, 3 tables, and 9 references, 3 of which are Soviet.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

5(2) SOV/78-4-10-9/40

AUTHORS: Ivanov-Emin, B. N., Rabovik, Ya. I.

TITLE: Complex Compounds of Halides of Gallium and Indium With Pyridine

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 10, pp 2228-2236 (USSR)

ABSTRACT: In the introduction the authors mention the complex compounds of the halides of Ga, In and Th with ammonia, ethylene diamine and urea hitherto known. The ethylene diamine and ammonia-ethylene diamine compounds were described by A. P. Kochetkova and V. G. Tronev (Ref 2) who have also synthesized compound $InCl_3 \cdot 4NH_3$ (Ref 4). Preliminary experiments showed that the formation of pyridine complex compounds of gallium from aqueous solutions is not possible. The synthesis was therefore carried out in alcoholic or ethereal solution. The following compounds were obtained for the first time: $GaCl_3 \cdot C_5H_5N$, $GaCl_3 \cdot 2C_5H_5N$, $GaBr_3 \cdot 3C_5H_5N$, $GaJ_3 \cdot 3C_5H_5N$, $InBr_3 \cdot 3C_5H_5N$ and the α-picoline complex compounds $InHal_3 \cdot 3C_5H_4CH_3N$. The analyses of the preparations, the variation of pH on dilution and titration

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with KOH, the melting points and the molecular electrical conductivities are given and the crystals shown in a picture. The absence of the tripyridine compounds of $GaCl_3$ and InJ_3 and the low stability of the $GaCl_3$-dipyridine complex is explained by the trans-effect according to I. I. Chernyayev, on suggestion of B. V. Nekrasov. The indium complexes are completely hydrolyzed by water, whereas the gallium complexes form acido complexes without noticeable hydrolysis. The aqueous solutions are of acid reaction, their electrical conductivity ranks in the decreasing order of Cl → Br → J. By determination of the molecular weight of the gallium-halogen complexes they were proved to be monomer when dissolved in benzene. There are 3 figures, 8 tables, and 9 references, 3 of which are Soviet.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

IVANOV-EMIN, B.N.; NISEL'SON, L.A.; RABCVIK, Ya, I.; LARIONOVA, L.Ye.

Complex compounds of gallium halides with o-phenanthroline. Zhur. neorg.khim. 6 no.5:1142-1146 My '61. (MIRA 14:4)

(Gallium compounds) (Phenanthroline)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOVIK, Ya.I.; ORESHKINA, O.F.; GORBACHEVA, Ye.G.; KUZNETSOVA, L.A., red.

[Laboratory manual of qualitative analysis for correspondence-course students of the faculties of agronomy and zootechny] Rukovodstvo k prakticheskim zaniatiiam po kachestvennomu analizu dlia studentov-zaochnikov agronomicheskogo i zootekhnicheskogo fakul'tetov. Moskva, 1963. 170 p. (MIRA 17:8)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

USSR / Human and Animal Morphology - Digestive Tract S

Abs Jour : Ref. Zhur. - Biol., No. 22, 1958, No. 101432

Author : Rotenberg, Ya. A.; Rabovskaya, A. Ye.
Inst : -
Title : Surgical Anatomy in Injuries of the Organs of the Peritoneal Cavity.

Orig Pub : In the collection: Neotlozhnaya khirurgiya organov bryushnoy polosti. Kiev, Gosmedizdat, UkrainianSSR, 1955, 225-232.

Abstract : No abstract.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOVSKAYA, A. Ye. Cand Med Sci -- (diss) "Consequences of gunshot trauma of the stomach in connection with medical and labor expertise." Khar'kov, 1957. 13 pp 22 cm. (Min of Health UkSSR. Khar'kov State Med Inst), 100 copies (KL, 13-57, 101)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

SOV/81-59-8-28434

Translation from: Referativnyy zhurnal, Khimiya, 1959, Nr 8, p 407 (USSR)

AUTHORS: Rabovskaya, N.S., Kucherovskaya, V.N.

TITLE: An Investigation of the Process of Esterification of Ethylene Glycol by Acetic Acid in the Presence of Cationites as Catalysts

PERIODICAL: Tr. po khimii i khim. tekhnol., 1958, Nr 1, pp 190 - 191

ABSTRACT: The kinetics of the esterification process of ethylene glycol (I) by acetic acid (II) in the presence of KU-2 cation-exchange resin has been studied. It has been established that the quantity of cationite starting with 0.5% of the weight of the reaction mass practically does not affect the process, and a 9-fold application of one and the same sample of KU-2 resin does not decrease the activity of the catalyst (the activity which is spent nearly completely after the 11th cycle is restored after 6 days). In the absence of the catalyst the monoester of I (chiefly) is formed, in the presence of KU-2 (or H_2SO_4) the diester. The reaction rate in the presence of H_2SO_4 is somewhat higher than in the presence of KU-2, but in

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An Investigation of the Process of Esterification of Ethylene Glycol by Acetic Acid in the Presence of Cationites as Catalysts

the case of conducting the reaction with the distillation of the reaction water (in the form of an azeotropic mixture with C_6H_6) these rates practically coincide, exceeding by 3 - 4 times the reaction rate in the absence of a catalyst.

O.Ch.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOVSKAYA, M.S.; KUCHEROVSKAYA, V.N.

Production of ethylene glycol diacetate in the presence of cation-exchanging resins. Zhur.prikl.khim. 31 no.11:1757-1759 N '58. (MIRA 12:2)

(Ethanediol) (Base-Exchanging compounds)

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SOV/76-33-11-14/47

5(4)

AUTHOR: Rabovskaya, N. S.

TITLE: Use of Ion-exchange Resins as Catalysts in the Organic Synthesis

PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 11, pp 2467-2470 (USSR)

ABSTRACT: The author checked the applicability of ion exchangers as catalysts in the esterification of ethylene glycol with acetic acid (Ref 9). At first, three cation exchangers, KU-1 and KU-2 (sulfo cation exchangers) and SG-1 (carboxyl cation exchanger) were investigated. As the catalytic activity decreased in the order KU-2 > KU-1 > SG-1 (Fig 1), the further experiments were carried out with KU-2. In the presence of KU-2 and sulfuric acid ethylene glycol diacetate forms, while without catalyst the reaction only proceeds up to the monoester (Table, Fig 2). The esterification could be accelerated 3-4-times only with KU-2 and thus proceeded as rapidly as in the presence of sulfuric acid alone (as a catalyst). KU-2 loses its catalytic activity already after 11 working periods but regains it after a 6-day storage. Reed and Wenzel (Ref 10), Hamilton and Metzner

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

Use of Ion-exchange Resins as Catalysts in the Organic Synthesis

(Ref 11) carried out a gaseous-state hydration of ethylene oxide with cation exchangers as catalysts. In the present case the reaction took place under less rigorous conditions, and it was found that, already at 0°, ethylene oxide in the presence of ion exchangers is capable of adding water and low alcohols, in which case only the cation exchangers KU-1 and KU-2 (Figs 3,4) proved effective, while the anion exchangers EDE-10 and AV-16 were ineffective. A special advantage of the catalysts investigated in the two above reactions was their selectivity, i.e. they accelerate the main reaction considerably more than the side reactions, while sulfuric acid equally accelerates both the main and the side reactions. Finally the author expresses his gratitude to G. A. Razuvayev for helpful advice. There are 5 figures, 1 table, and 11 references, 1 of which is Soviet.

ASSOCIATION: Tsentral'naya laboratoriya zavoda "Zavodstroy", g. Dzerzhinsk (Central Laboratory of the Plant "Zavodstroy", Town of Dzerzhinsk)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

KOGAN, L.M.; RABOVSKAYA, N.S.; VOL'FKOVICH, S.I., akademik

Radiolysis of tetrachloroethylene and hexachlorobutadiene.
Dokl. AN SSSR 157 no.1:127-130 Jl '64 (MIRA 17:8)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova i Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh sredstv zashchity rasteniy.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOVSKAYA, N.S.; KOGAN, L.M.; NIKOLAYEVA, A .A.

Radiolysis of some unsaturated carbon chlorides. Vest. Mosk. un. Ser. 2:Khim. 20 no.4:42-43 Jl-Ag '65. (MIRA 18:10)

1. Kafedra khimicheskoy tekhnologii Moskovskogo gosudarstvennogo universiteta.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RAZUVAYEV, G.A.; SANGALOV, Yu.A.; MUNSKER, K.S.; KOGAN, L.M.; RABOVSKAYA, N.S.

Initiation of vinyl chloride polymerization by reactions between lower unsaturated chlorocarbons and triethylaluminum. Dokl. AN SSSR 160 no.1:143-144 Ja '65. (MIRA 18:2)

1. Moskovskiy gosudarstvennyy universitet. 2. Chlen-korrespondent AN SSSR (for Razuvayev).

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

KOGAN, L.M.; ROZHKOVA, N.G.; RABOVSKAYA, N.S.

Extensive chlorination of piperylene. Zhur.prikl.khim. 38 no.6:1315-1320 Je '65. (MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh sredstv zashchity rasteniy.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

ACC NR: AP5028281 (A) SOURCE CODE: UR/0020/65/165/002/0337/0340

AUTHOR: Rabovskaya, N. S.; Kogan, L. M.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet); All-Union Scientific Research Institute on Plant Protection by Chemistry (Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh sredstv zashchity rasteniy)

TITLE: Radiolysis of hexachlorocyclopentadiene

SOURCE: AN SSSR. Doklady, v. 165, no.2, 1965, 337-340

TOPIC TAGS: x ray irradiation, ethylene, butadiene

ABSTRACT: Radiolysis of hexachlorocyclopentadiene proceeded analogously to that of tetrachloroethylene or hexachlorobutadiene. Twenty ml. of hexachlorocyclopentadiene was placed in a Mo-glass ampule and the ampule was sealed without the removal of air. The radiolysis of hexachlorocyclopentadiene was performed at 20C, using 0.66×10^{22} - 15.7×10^{22} ev/ml. doses at the 1.95×10^{16} - 3.82×10^{16} ev/ml.· sec. rate. With an increase of irradiation dose, the conversion proceeded fast at first and then became slower. After distilling the residue of hexachloropentadiene, the reaction products were separated by rectification in a vacuum with a subsequent freezing-out of crystals which formed in different fractions while standing for 10-15 days. The

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ACC NR: AP5028281

products of radiolysis were: 20-30% yield of octachlorocyclopentene, m. 41.3-41.5C; ~50% yield of a viscous red oil of $C_{10}Cl_{10}$ composition, mol. weight 483, b. 180 - 8.3C, n_D^{50} 1.6049, d_4^{50} 1.8085; 1 - 2% yield of yellowish crystals, having a mol. weight of 458 (cryoscopic determination) or 485 (isothermal distillation) and an absorption maximum at 273 and 320 mμ with the absorbance equal to 5000 and 32000, respectively; and traces of a crystalline compound of the composition of $C_{15}Cl_{12}$, m. 340 - 2C, having an absorption maximum at 268 and 278 mμ. Molecular Cl_2 did not form. Autocondensation of the hexachlorocyclopentadiene was not observed. The paper was presented by Academician S. I. Vol'kovich, 6 Apr. 65. Orig. art. has: 3 figs. and 3 formulas.

SUB CODE: 20/ SUBM DATE: 18Mar65/ ORIG REF: 003/ OTH REF: 005

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

OGORODNIKOV, S.K.; KOROL', N.G.; RABOVSKAYA, R.V.

Liquid - vapor and liquid - liquid equilibrium in the binary systems formed by some perfluoroorganic compounds and C_5 and C_6 hydrocarbons. Zhur. prikl. khim. 37 no.8:1786-1790 Ag '64. (MIRA 17:11)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

OROGORNIKOV, S.K.; RABOVSKAYA, R.V.; KOROL', N.G.; PRESMAN, B.I.

Azeotropy in binary systems formed by perfluorotriethylamine and C_5 and C_6 hydrocarbons. Zhur.prikl.khim. 37 no.7:1597-1601 Jl '64. (MIRA 18:4)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013438

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

GUTMAN, Iosif Moiseyevich; PICHAK, Fedor Ivanovich; RABOVSKIY, A.V., inzh., retsenzent; SOBOLEV, L.A., inzh., retsenzent; BUSHUYEV, N.M., kand.tekhn.nauk, red.; DUGINA, M.A., tekhn.red.

[Tractors and motor vehicles; manual for workers of collective farms] Traktory i avtomobili; spravochnik kolkhoznogo rabotnika. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 163 p. (MIRA 13:9)

(Motor vehicles)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

SOV/51-6-3-22/28

AUTHORS: Finkel'shteyn, A.I., Malachevskaya, F.L., Fisher, A.M. and Rabovskiy, B.G.

TITLE: A Simple Method of Preparation of Potassium Bromide Plates for Infrared Spectroscopy of Solids (Prostoy sposob prigotovleniya plastinok iz bromistogo kaliya dlya infrakrasnoy spektroskopii tverdykh tel)

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 3, pp 415-417, (USSR)

ABSTRACT: The paper describes preparation of rectangular KBr or NaCl plates containing the substance to be investigated by infrared spectroscopy. The plates are prepared from dried (12-18 hours at 200°C) powders. A small amount (0.1-3%) of the investigated substance, also in powder form, was added to KBr or NaCl and ground in a porcelain mortar. The amount of the substance studied which is used depends on the spectral region to be investigated and the sensitivity and accuracy required. The plate is prepared using simple apparatus (figure). It consists of two stainless-steel plungers (1 and 2) and a stainless-steel

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

A Simple Method of Preparation of Potassium Bromide Plates for Infrared Spectroscopy of Solids

ring (3). A plastic form (4) is placed on the lower plunger and filled with powder, which is then lightly compressed by means of a plastic piece 5. The form 4 and piece 5 are removed and the resultant thin rectangular plate is further compressed using the ring 3 and the upper plunger 2. It is necessary to apply 10-15 tons for several seconds or 5-7 tons for up to 30 minutes. The area of the plates produced is about 1 cm^2 (20 x 5 mm). There is 1 figure and 3 references, of which 1 is German and 2 English.

SUBMITTED: June 24, 1958

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RABOVSKIY, B.G.

Temperature dependence of the rates of the reactions taking place during the chlorination of kaolin. Zhur.prikl.khim. 33 no.3:540-546 Mr '60. (MIRA 13:6)
(Kaolin) (Chlorination)

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RABOVSKIY, B.G.; KOGAN, V.M.; FURMAN, A.A. (Moscow)

Possibility of applying a differential thermal method for studying the kinetics of chemical reactions. Zhur. fiz. khim. 38 no.12:2895-2898 D '64. (MIRA 18:2)

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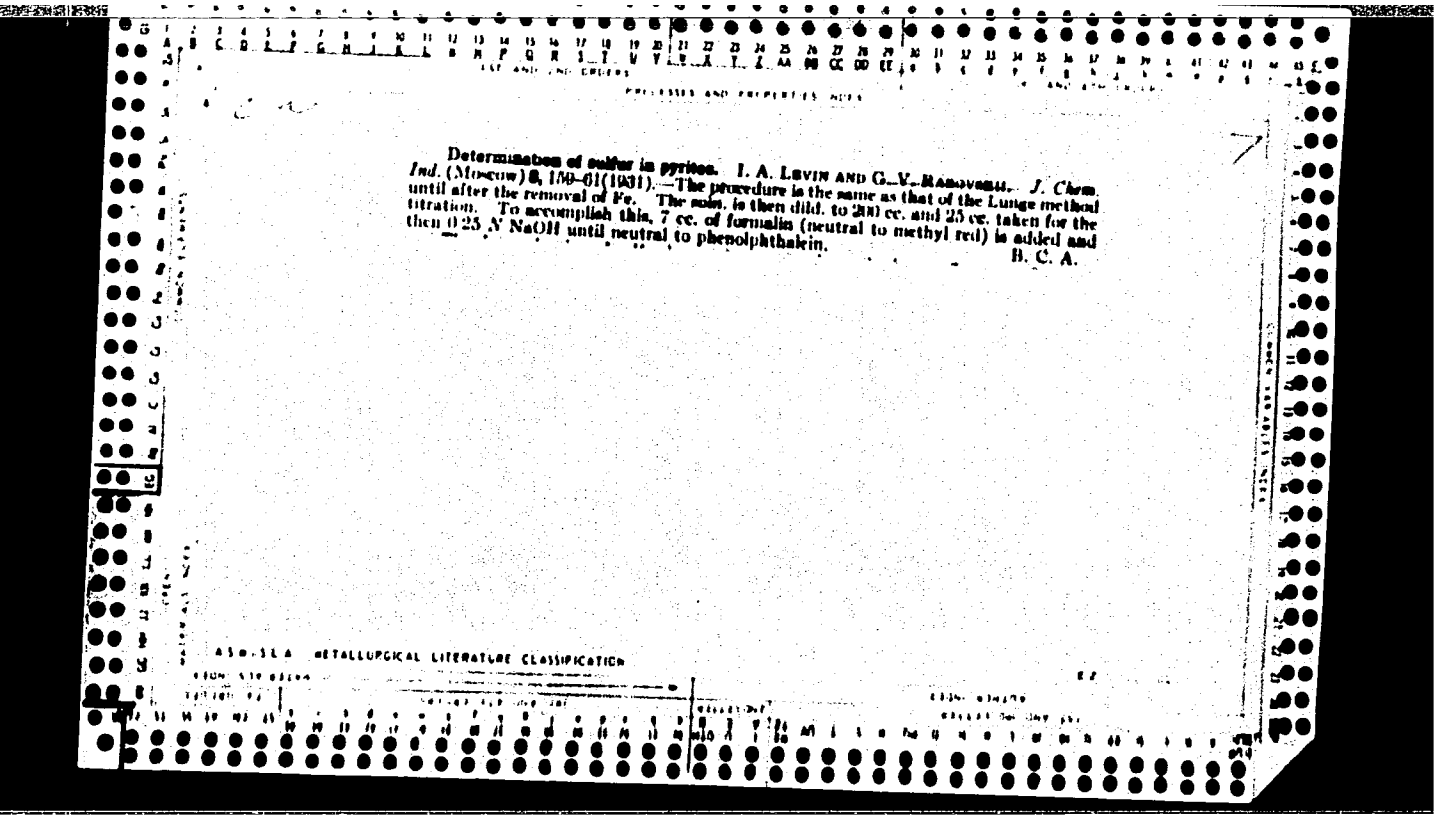

Determination of sulfur in pyrites. I. A. Levin and G. V. Ramovenai. *J. Chem. Ind.* (Moscow) **8**, 169–61(1931).—The procedure is the same as that of the Lunge method until after the removal of Fe. The soln. is then dild. to 200 cc. and 25 cc. taken for the titration. To accomplish this, 7 cc. of formalin (neutral to methyl red) is added and then 0.25 *N* NaOH until neutral to phenolphthalein.
B. C. A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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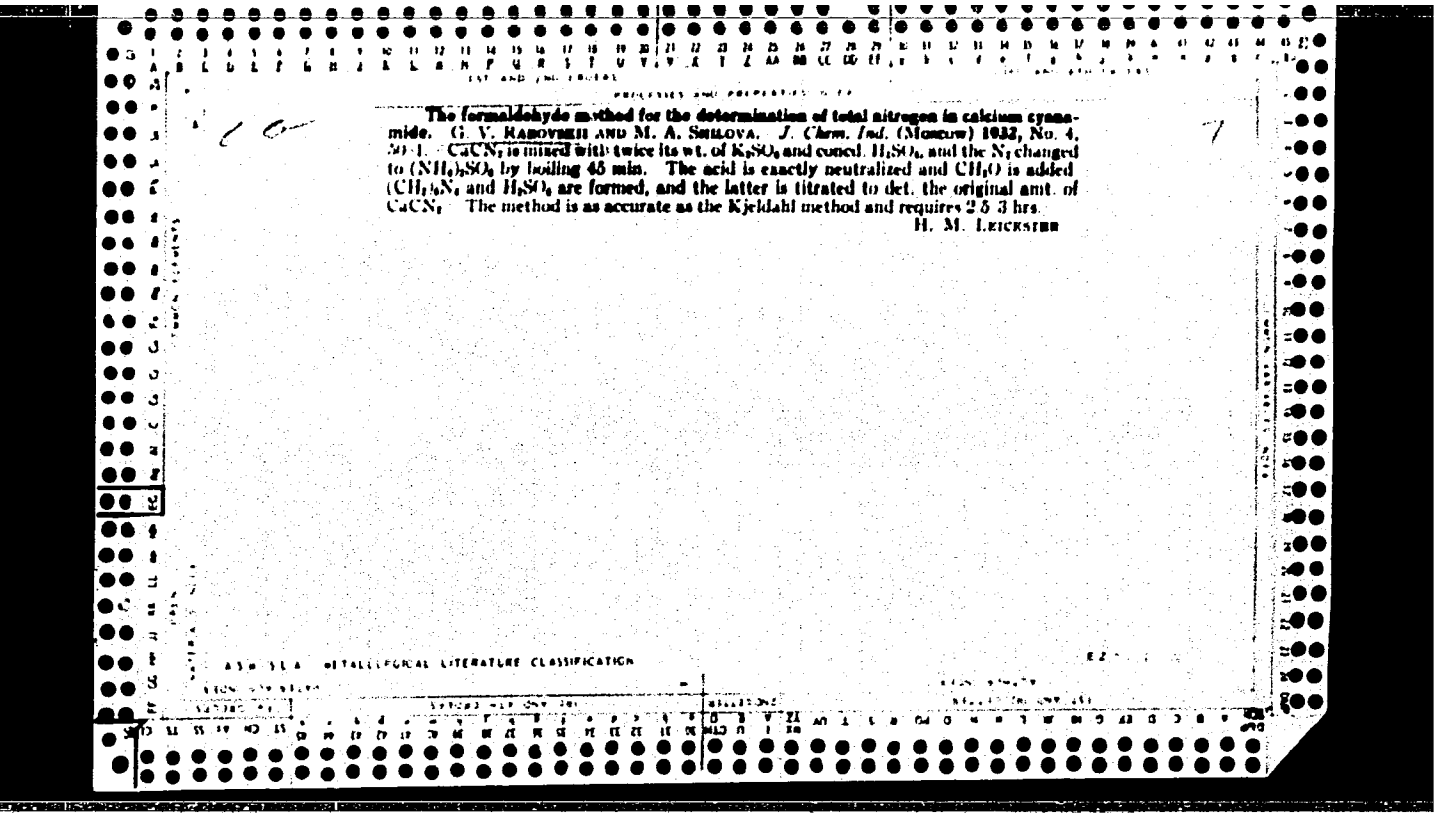

The formaldehyde method for the determination of total nitrogen in calcium cyanamide. G. V. Rabovskii and M. A. Shilova. *J. Chem. Ind.* (Moscow) 1932, No. 4, 30-1. $CaCN_2$ is mixed with twice its wt. of K_2SO_4 and concd. H_2SO_4, and the N_2 changed to $(NH_4)_2SO_4$ by boiling 45 min. The acid is exactly neutralized and CH_2O is added ($(CH_2)_6N_4$ and H_2SO_4 are formed, and the latter is titrated to det. the original amt. of $CaCN_2$. The method is as accurate as the Kjeldahl method and requires 2.5-3 hrs.

H. M. Leicester

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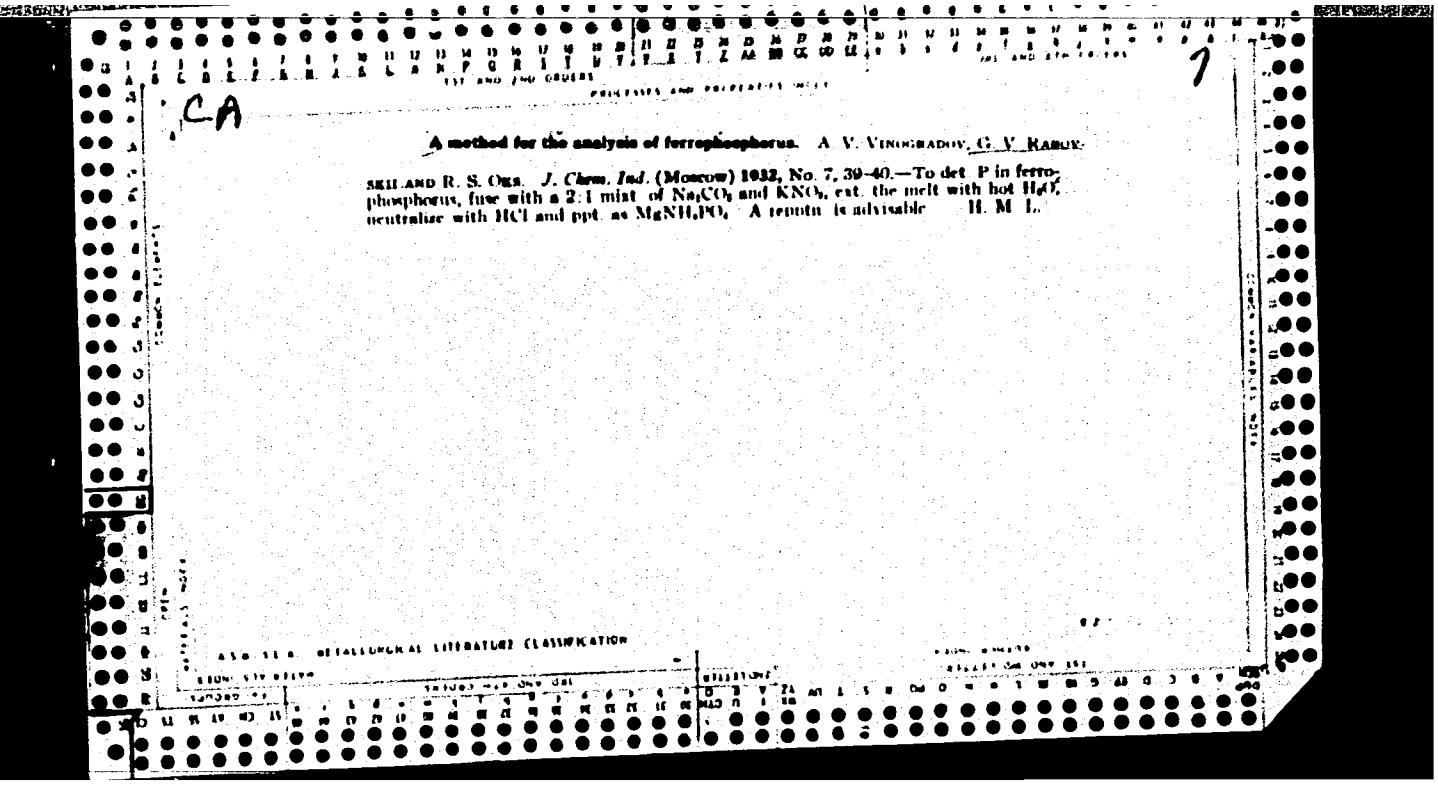

CA

A method for the analysis of ferrophosphorus. A. V. Vinogradov, G. V. Rabuv-skii and R. S. Oks. *J. Chem. Ind.* (Moscow) **1932**, No. 7, 39–40.—To det. P in ferrophosphorus, fuse with a 2:1 mixt. of Na_2CO_3 and KNO_3, ext. the melt with hot H_2O, neutralize with HCl and ppt. as $MgNH_4PO_4$. A reprint is advisable. H. M. L.

U.S.S.R. METALLURGICAL LITERATURE CLASSIFICATION

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