"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZE, G.F. (Moskva)

Deficient oxidation in cancer cells and biochemical mutants of certain micro-organisms. Usp.sovr.biol. 47 no.1:100-107 Ja-F '59. (MIRA 12:2)

(MICROORGANISMS, metab.
defective oxidation, relation to defective oxidation in cancer cell, review (Rus))
(NEOPLASMS, metabolism,
defective oxidation, relation to defective oxidation in microorganisms, review (Rus))

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17(2) SOV/20-124-3-52/67

AUTHORS: Gauze, G. F., Kochetkova, G. V., Vladimirova, G. V.

TITLE: On the Effect of Cancer-Inhibiting Substances on Biochemical Mutants of Microorganisms With Disturbed Oxidation (O deystvii protivorakovykh veshchestv na biokhimicheskikh mutantov mikroorganizmov s povrezhdennym okisleniyem)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 3, pp 674-677 (USSR)

ABSTRACT: The authors have attempted to extend the range of their investigations of the biochemical mutants - mentioned in the title - of the yeast cells and bacteria (Refs 1-4) to the protozoa. Said mutants can serve as cancer cell analogues, as they, too, are characterized by a defect of the respiratory apparatus. Tests were carried out with Polytoma uvella, a colorless flagellate (Chlamydomonadae), which can be cultivated on liquid and solid agar-containing culture media as easily as bacteria can. P. uvella was obtained from infusions of peat soils. As neither high temperatures, nor ultraviolet irradiation, nor urethane could produce the desired mutants, the authors employed carcinogenic hydrocarbons (Ref 6): 9,10-dimethyl-1,2-benzanthracene (0.001 - 0.0005%). After 3 months of cultivation with transplanting from liquid to solid media and back carried out at 48 hours' intervals, a strain with the desired properties could at last be obtained.

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On the Effect of Cancer-Inhibiting Substances on Biochemical Mutants of Microorganisms With Disturbed Oxidation

Compared with a normal culture, the mutant one showed a hereditary reduced respiration as its oxygen consumption is only 62% of that of the normal culture. Biochemical mutants of this kind are of importance as test objects in the search for cancer-inhibiting substances. In this connection it is interesting to find whether the well-known and partly well-proved anti-cancer preparations have a selective suppressive effect on said mutants. In the paper under review, the results of such investigations are presented. D e g r a n o l e (1,6-bis-(ß-chloroethane amine)-1,6-desoxy-D-mannitol) (Ref 7). As shown in table 1, normal cultures of staphylococci and Escheria coli are not suppressed by any of the proved concentrations of degranole. The growth of the above-mentioned biochemical mutants of these bacteria is, however, selectively impaired. Thus it can be concluded that this very oxidation defect is the vulnerable point of the bacterial cell with regard to degranole. A c t i n o m y c i n C (Ref 8). From table 2 it can be seen that this preparation has a most marked selective effect in the above sense on the mutants under consideration. A n t i b i o t i c 6270 was isolated, at the Institute mentioned in the Association, from an actinomyces strain allied to Actinomyces flavochromogenes. It belongs

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On the Effect of Cancer-Inhibiting Substances on Biochemical Mutants of Micro-organisms With Disturbed Oxidation

to the echinomycin group although it differs from the substance described in reference 8. As demonstrated by table 3, the above-mentioned substance has the same effect on the two above bacteria strains as well as on bacillus mycoides. The same results were yielded by tests with Polytoma uvella (Fig 1). Substances which are not cancer-inhibiting (quinine and acrichine) also suppress the growth of the P. uvella cultures to the same extent. Tetrazole (2,3,5-triphenyl-tetrazole-chloride), which also does not affect cancer, is more strongly reduced by the normal form. It seems that this is the reason for the fact that the growth of the normal P. uvella culture is more strongly suppressed than that of a mutant one.- There are 1 figure, 3 tables and 9 references, 4 of which are Soviet.

ASSOCIATION: Institut po izyskaniyu novykh antibiotikov Akademii meditsinskikh nauk SSSR (Institute for the Detection of New Antibiotics of the Academy of Medical Sciences,USSR)

PRESENTED: October 17, 1958, by A. L. Kursanov, Academician

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZE, G.F.; KOCHETKOVA, G.V.

Use of staphylococcal mutants with defective oxidation for the investigation of anticancerous antibiotics. Antibiotiki 5 no.1: 62-64 Ja-F '60. (MIRA 13:7)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.
(ANTIBIOTICS) (CANCER) (STAPHYLOCOCCUS)

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GAUZE, G.F.; PREOBRAZHENSKAYA, T.P.; IVANITSKAYA, L.P.; KOVALENKOVA, V.K.

Synthesis of a new antibiotic monomycin by Actinomyces circulatus var. monomycini cultures. Antibiotiki 5 no.4:3-6 Jl-Ag '60. (MIRA 13:9)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.
(ANTIOBIOTICS) (ACTINOMYCES)

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GAUZE, G.F., prof.

Some results of our visit to the United States. Vest.AMN SSSR 15 no.3:71-82 '60. (MIRA 14:5)
(ANTIBIOTICS--CONGRESSES) (UNITED STATES--MEDICINE)

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GAUZE, G.F., prof.

Strategy and tactics in the use of antibiotics and prospects for a further study. Vest.AMN SSSR 15 no.4:44-49 '60. (MIRA 14:5)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.
(ANTIBIOTICS)

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GAUZE, G.F., KOCHETKOVA, G.V. VLADIMIROVA, G.B. (USSR)

"Biochemical changes Associated with Loss of Oxidation in Staphylococci."

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

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GAUZE, G.F.; KHORIN, V.A.; BRAZHNIKOVA, M.G.; PREOBRAZHENSKAYA, G.P. IVANITSKAYA, L.P.; LAVROVA, M.F.; USPENSKAYA, G.A.; GOL'DBERG, L.Ye.; STANISLAVSKAYA, M.S.; IVANOV, K.K.; KOVALENKOVA, V.K.

Monomycin , a new antibacterial antibiotic. Nauch. inform. Otd. nauch. med. inform. AMN SSSR no.1:39-40 '61 (MIRA 16:11)

1. Institut po izyskaniyu novykh antibiotikov (direktor - prof. G.F.Gauze) AMN SSSR, Moskva.

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GAUZE, Georgiy F.

-"Anti-biotic monomycin and its clinical use" (I)
Report to be submitted for the 2nd Intl. Symposium of Chemotherapy, Naples Italy 14-17 Sep. 1961.

GAUZE, G.F., Deputy Scientific Director, Institute for New Antibiotics, Academy of Medical Sciences USSR, Moscow

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GAUZE, G.F.; KOCHETKOVA, G.V.

Selective inhibition [of the synthesis] of nucleic acids in staphylococcal mutants, used in the screening of antitumor antibiotics. Antibiotiki 6 no.7:643-649 Jl '61. (MIRA 15:6)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.
(ANTIBIOTICS) (STAPHYLOCOCCUS) (NUCLEIC ACIDS)

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GAUZE, G.F.

Second International Symposium on Antibiotics and Chemotherapy.
Antibiotiki 6 no.12:1131-1134 D '61. (MIRA 15:2)
(CHEMOTHERAPY--CONGRESSES) (ANTIBIOTICS)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

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GAUZE, G.F.; KOCHETKOVA, G.V.; VLADIMIROVA, G.B.

Biochemical changes associated with oxidation deficiency in staphylococci. Dokl. AN SSSR 139 no.1:223-226 Jl '61. (MIRA 14:7)

1. Institut po izyskaniyu novykh antibiotikov Akademii meditsinskikh nauk SSSR. Predstavleno akademikom V.A. Engel'gardtom.
(STAPHYLOCOCCUS) (OXIDATION, PHYSIOLOGICAL)
(VARIATION (BIOLGOY)

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GAUZE, G. F.

"Mutants with small colonies, impaired respiration and disturted nucleic acids in Micrococcus aformentans."

report to be submitted for the 34th General Meeting of the Society for General Microbiology, London, 9-11 April 1962.

Inst. of Antibiotics, Acad. Med. Sci. USSR

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GAUZE, G.F., prof., red.; SHORIN, V.A., red.; PETROVA, N.K., tekhn. red.

[Monomycin and its use in a clinic] Monomitsin i ego primenenie v klinike. Moskva, Medgiz, 1962. 186 p. (MIRA 16:5)

1. Akademiya meditsinskikh nauk SSSR, Moscow. 2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Gauze).
(MONOMYCIN)

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GAUZE, G.F.

Biological methods of obtaining antimetabolites from a malignant growth.
Vest. AMN SSSR 17 no.3:8-12 '62. (MIRA 15:4)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.
(ANTIMETABOLITES) (CYTOTOXIC DRUGS)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZE, G.F.

"Molecular biology of cancer cells."

Report to be submitted to the Third Intl. Congress of Chemotherapy.

Stuttgart, West Germany 22-27 July 1963

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GAUZE, G.F.; KUDRINA, Ye.S.; UKHOLINA, R.S.; GAVRILINA, G.V.

New antibiotic ristomycin produced by proactinomyces fructiferi var. ristomycini. Antibiotiki 8 no.5:387-392 My '63
(MIRA 17:3)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.

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GAUZE, G.F.

Mechanism of the selective action of some antibiotics which suppress the influenza virus, on the synthesis of nucleic acids in the cell. Vest. AMN SSSR 18 no.5:68-70'63. (MIRA 16:8)
(ANTIBIOTICS) (INFLUENZA—VIRUSES)
(NUCLEIC ACIDS)

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GAUZE, G.F.; KOCHETKOVA, G.V.; VLADIMIROVA, G.B.; LANG[illegible]

Some characteristics of the mutants of Staphylo[illegible] afermentans with a respiratory defect. Mikrobiologiia [illegible] no.2:260-265 Mr-Ap '63. (MIRA 17:9)

1. Institut po izyskaniyu novykh antibiotikov [illegible].

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GAUZE, G.F. (Moskva)

Microorganisms and problems in the molecular biology of cancer.
Usp. sovr. biol. 55 no.3:411-427 My-Je'63 (MIRA 17:3)

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GAUZE, G.F.; VLADIMIROVA, G.B.; ZIMENKOVA, L.P.; LANDAU, N.S.

Study of the antibiotic properties of mutants of micro-organisms with oxidation defects. Antibiotiki 8 no.12:1082-1085 D '63.
(MIRA 17:10)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.

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[redacted]

[redacted] (MIRA 17:10)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

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GAUZE, G.F.; LAYKO, A.V.

Autonomous protein synthesis in staphilococcal mutants with deficient oxidation. Dokl.AN SSSR 149 no.3:711-713 Mr '63. (MIRA 16:4)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR. Predstavleno akademikom A.A.Imshenetskim.

(Staphylococcus) (Protein metabolism)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

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GAUZE, G.F.; LAYKO, A.V.

Protein synthesis as a function of nucleic acid synthesis in staphylococci and their oxidation-deficient mutants.
Mikrobiologiia 33 no.2:193-197 Mr-Ap '64.
(MIRA 17:12)

1. Institut po issyskaniyu novykh antibiotikov AMN SSSR.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

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GAUZE, G. F.; LAYKO, A. V.

"The selective action of some antineoplastic antibiotics on the nuclear acids in staphylococci and their mutants."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

Inst for Search for New Antibiotics, AMS USSR, Moscow.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

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GAUZE, G. F.; LAYKO, A. V.

"On the Selective Action of Some Antitumor Antibiotics upon the Nucleic Acids of Staphylococci and of their Mutants."

report [redacted] submitted for 6th Intl Biochemistry Cong, New York City, 26 Jul-1 Aug 1964.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

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GAUZE, G.F.

Chemical synthesis and biosynthesis in searching for new antibiotics. Vest.AMN SSSR. no.4:73-79 '64. (MIRA 18:8)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR, Moskva.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZE, G.F.

Problems concerning antibiotics at the 6th International Biochemical Congress (New York, July 26-August 1, 1964). Antibiotiki 9 no.11:1036-1039 N '64. (MIRA 18:3)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

L 3158-66 EWT(1)/EWA(j)/EWA(b)-2 JK

ACCESSION NR: AP5019329 UR/0020/64/155/005/1184/1187

AUTHOR: Gauze, G. F.; Kochetkova, G. V.; Bibikova, M. V.

TITLE: Investigation of mutants with an oxidation defect in bacillus subtilis

SOURCE: AN SSSR. Doklady, v. 155, no. 5, 1964, 1184-1187

TOPIC TAGS: bacteria, genetics, antibiotic

ABSTRACT: A new method was developed for producing mutants of Bacillus subtilis 168 with small colonies and a respiration defect, based on the mutagenic action of 5-fluorouracil. Most of the small mutants obtained were unstable, splitting out cells of the original form, with large colonies; however, stable mutants that did not revert to the original form after repeated reinoculations were obtained. Optimum 5-fluorouracil content for the induction of stable mutants: 250 micrograms per milliliter. Determinations of the respiratory quotient, studies of the effects of substances that selectively interfere with nucleic acid synthesis (mitomycin C, actinomycin C, trypaflavin, degranol), protein synthesis (puromucin, tetracycline, chloramphenicol), and

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ACCESSION NR: AP5019329

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the synthesis of the cellular membrane (penicillin), and investigations of the synthesis of the enzyme beta-galactosidase in the cells of these microorganisms, indicated that B. subtilis mutants with an oxidation defect are characterized by refractoriness of the respiration to the effects of exogenous glucose, a selective sensitivity to the action of puromycin -- a specific inhibitor of the concluding stages of protein synthesis -- and a loss of the ability for the induction of beta-galactosidase. In view of these properties, the authors recommend such mutants as test objects for the search for new antibiotics that selectively suppress protein synthesis in the bacterial cell.

Orig. art. has: 3 tables.

ASSOCIATION: Institut po izyskaniyu novykh antibiotikov Akademii meditsinskikh nauk SSSR (Institute for the Search for New Antibiotics, Academy of Medical Sciences SSSR)

SUBMITTED: 17Oct63	ENCL: 00	SUB CODE: LS
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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZE, G.G.; LOSHKAREVA, N.P.; ZBARSKIY, I.B.; GAUZE, G.F.

Composition of DNA in some bacteria and their mutants carrying oxidation deficiency. Dokl. AN SSSR 157 no. 2:457-459 Jl '64. (MIRA 17:7)

1. Institut morfologii zhivotnykh imeni A.N.Severtsova AN SSSR i Institut po izyskaniyu novykh antibiotikov AMN SSSR. Predstavleno akademikom A.A.Imshenetskim.

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GAUZE, G.F.

Biochemical mechanisms of the action of antineoplastic antibiotics in connection with the problem of the search for new active preparations. Vest. AMN SSSR no.4:46-52 '65. (MIRA 18:10)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR, Moskva.

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GAUZE, G.F.; UKHOLINA, R.S.; PREOBRAZHENSKAYA, T.P.; KOVALENKOVA, V.K.; GAVRILINA, G.V.; PAVLENKO, I.A.

Antibiotic 14725, a synnergistic preparation from the ostreogrycin group. Antibiotiki 9 no.9: 809-814 S '64. (MIRA 19:1)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR, Moskva.

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MAKSIMOVA, T.S.; TOROPOVA, Ye.G.; KOVALENKOVA, V.K.; GAUZE, G.F.

Antitumor antibiotics of the enkaline group produced by actinomycetes. Antibiotiki 10 no.3:201-207 Mr '65.
(MIRA 18:10)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR, Moskva.

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GAUZE, G.F.

Molecular biology and problems of antibiotics. Antibiotiki 10 no.11:1037-1050 N '65. (MIRA 19:1)

1. Institut po izyskaniyu novykh antibiotikov, Moskva.
Submitted June 5, 1965.

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GOLUB, Ye.I.; GAUZE, G.G.; DVORKIN, G.A.; SPIRIN, A.S.

Electrooptical methods for studying the ribosomes from Escherichia coli. Dokl. AN SSSR 149 no.2:446-449 Mr '63. (MIRA 16:3)

1. Institut biofiziki AN SSSR i Institut biokhimii im. A.N.Bakha AN SSSR. Predstavleno akademikom A.I.Oparinym.
(ESCHERICHIA COLI) (ELECTRON OPTICS) (PROTEIN METABOLISM)

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ZBARSKIY, I.B.; GAUZE, G.F.

Effect of actinomycin D on the incorporation of labeled amino acids into the nuclei proteins of Ehrlich ascites carcinoma. Vop. med. khim. 10 no.4:444-447 Jl-Ag '64. (MIRA 18:1)

1. Laboratoriya biokhimii plastinchatykh struktur Instituta morfologii zhivotnykh imeni A.N.Severtsova AN SSSR, Moskva.

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GAUZE, G.G., LOSHKAREVA, N.P.

Effect of olivomycin on the cells of Ehrlich's ascites carcinoma.
Vop. med. khim. 11 no.4:64-66 Jl-Ag '65. (MIRA 18:8)

1. Laboratoriya biokhimii kletochnykh struktur Instituta morfologii zhivotnykh AN SSSR, Moskva.

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GAUZE, G.G.; LOSHKAREVA, N.P.; ZBARSKIY, I.B.; GAUZE, G.F.

Composition of DNA in some bacteria and their mutants carrying oxidation deficiency. Dokl. AN SSSR 157 no. 2:457-459 Jl '64.
(MIRA 17:7)

1. Institut morfologii zhivotnykh imeni A.N.Severtsova AN SSSR i Institut po izyskaniyu novykh antibiotikov AMN SSSR. Predstavleno akademikom A.A.Imshenetskim.

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BUDNIK, Yu.V.; GAUZE, G.G.

Study of the mechanism of the action of bruneomycin.
Antibiotiki 10 no. 10:880-885 O '65. (MIRA 18:12)

1. Institut po iskaniyu novykh antibiotikov i Institut morfologii zhivotnykh imeni A.N. Severtsova, Moskva. Submitted Febr. 9, 1965.

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Journal of the Iron and Steel Institute
Vol. 176 Part 3
Mar. 1954
Fuel-Preparation, Properties, and Uses

Coal Crushing in Coke-Oven Plants. H. Gauze. (*Hutnik* (Poland), 1953, 20, (9), 285–288). [In Polish]. The coal used in Polish coke-oven plants is harder than in other countries, and foreign grinding equipment often failed to produce the necessary screen analysis. Bearing this in mind, crushing equipment in Polish coke-oven plants is critically surveyed and the re-equipment necessary for the production of high quality coke is discussed.—v. d.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZER, S.I.

Automatic weighing batchers for charging concrete components. Izm. tekh.no.6:85-87 N-D '56. (MLRA 10:1)
(Weighing-machines) (Mixing machinery)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

AUTHOR: Gauzner, S.I. SOV-115-58-4-2/45

TITLE: Organizing the Repair of Weighing Devices in Technical Repair Shops (Organizovat' remont vesoizmeritel'nykh priborov na remontno-tekhnicheskikh stantsiyakh)

PERIODICAL: Izmeritel'naya tekhnika, 1958, Nr 4, pp.8-9 (USSR)

ABSTRACT: Weighing machines and balances used in kolkhozes and sovkhozes are at present subjected to bad and inefficient repair every 2 years at local weighing-equipment repair plants. The author suggests that the repair would be better and much cheaper if carried out at technical repair shops. In this case these shops would have to be equipped with the necessary measuring equipment and supplied with a suitable number of qualified personnel, specializing in this type of work. There is 1 table.

1. Balances--Maintenance

Card 1/1

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

25(5) SOV/115-59-4-22/27

AUTHOR: Gauzner, S.I.

TITLE: The First All-Union Scientific-Technical Conference of Scale Industry Workers (Pervaya Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya rabotnikov vesovoy promyshlennosti)

PERIODICAL: Izmeritel'naya tekhnika, 1959, Nr 4, p 41 (USSR)

ABSTRACT: From January 14 to 16, 1959, the First All-Union Scientific-Technical Conference of Scale Industry Workers took place in Moscow. The Conference was attended by 200 representatives of scale factories, scale repair plants, NIIVESPROM, GKSM Komitet standartov, mer i izmeritel'nykh priborov (Committee of Standards, Measures and Measuring Instruments), laboratories and institutes of the Committee, and representatives of organizations producing or designing measuring instruments. S.I. Lukichev, Gosplan SSSR, delivered a report on the future of scale building in the USSR during the period from 1959 to 1965. Director of NIIVESPROM, V.A. Stolya-

Card 1/4

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The First All-Union Scientific-Technical Conference of Scale Industry Workers

rov, reviewed new trends in the manufacture of scales. S.I. Gaukher from the Committee of Standards, Measures and Measuring Instruments, delivered a report on the technical control of scales. Besides these basic reports, the conference participants heard 18 statements on the automation of weighing loose goods and liquids, metrological laboratory balances, general purpose scales, instruments for recording weights and problems of manufacturing scales. Besides report on developments conducted at SKBIM and NIIVESPROM, there were reports on products of the Kiyevskiy vesovoy zavod imeni Dzerzhinskiy (Kiyev Scale Plant imeni Dzerzhinskiy) of the Nauchno-issledovatel'skiy institut tsvetnykh metallov (Scientific Research Institute of Non-Ferrous Metals, of the Vsesoyuznyy Nauchno-issledovatel'skiy institut stroitel'nogo i dorozhnogo mashinostroyeniya (All-Union Scientific Research Institute of Construction and Road

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Machine Building), of the institutes of the Committee, of the plant "Tekstil'pribor" and on projects of a number of other organizations. The conference was connected with an exhibition of products and experimental models produced by the Soviet scale industry and scientific research institutes, among them NIIVESPROM and SKBIM. There were electronic microbalances, laboratory balances with remote controls, a model of electrotensometric RR car scales, automatic dosing equipment for cement plants and other items. More then 20 conference participants took part in the discussions of the reports. The scale industry was criticized for deficiencies in the field of dial scales, general purpose scales, inadequate standardization and for producing out-dated models. The Khar'kov, Tulin, Tomsk, Bobruysk and Kokchetav plants were especially criticized for their poor products. The scale repair plants were criticized for their poor performance and their

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low technical level. The supply of spare parts for scales is also inadequate. The conference participants adopted a resolution calling for the elimination of the deficiencies in the Soviet scale industry.

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GAUZNER, S.I.

Conference on the automation of weight control. Izm.tekh. no.11:62 N '61. (MIRA 14:11)
(Weighing machines)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

ORLOV, Sergey Panteleymonovich; AVDEYEV, Boris Aleksandrovich; GAUZNER, S.I., inzh., retsenzent; YEGORKINA, L.I., red.; EL'KIND, V.D., tekhn. red.

[Weighing equipment in enterprises; manual] Vesovoe oborudovanie predpriiatii; spravochnoe posobie. Moskva, Mashgiz, 1962. 406 p. (MIRA 15:7)
(Weighing machines)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I.

New standards for mass measurement. Izm.tekh. no.3:13-16 Mr '62.
(MIRA 15:2)
(Weights and measures—Standards)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZER, Ye.G.

Fauna and phenology of horseflies (Diptera, Tabanidae) in the Nakhichevan A.S.S.R. Ent. oboz. 39 no.3:643-660 '60. (MIRA 13:9)
(Nakhichevan A.S.S.R.--Horseflies)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZER, Ye. G.

Horseflies of the Sulak Lowland region in Daghestan. Ent. oboz. 32:226-229 '52. (MLRA 7:1)
(Sulak Lowland--Horseflies) (Horseflies--Sulak Lowland)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZER, Ye.G.

Fauna and plenology of horseflies (Diptera, Tabanidae) of north-western Azerbaijan. Ent.obos. 33:238-254 '53. (MLRA 7:5)
(Azerbaijan--Horseflies) (Horseflies--Azerbaijan)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZER, Ye. G.

Preparation and standardization of specimens of heparin from cattle lungs. A. I. Kurnev, R. K. Aliev, E. B. Osina, and E. G. Gauzer. *Doklady Akad. Nauk Azerbaidzhan. S.S.R.* 12, No. 6, 405–12(in Russian, Azerbaidzhan summary, 413)(1956).—A detailed description of a method suitable for extn. of heparin from cattle lungs is given. A product is obtained comparable in activity to prepns. marketed in Sweden and Hungary (1 ml. stabilizes 2000 ml. of blood). Standardization of the product is also described in detail, which is based on clotting of blood samples in contact with solns. of the prepn. in various dilns. in physiol. soln.

G. M. Kissolapoff

4

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

KARAYEV, A.I.; ALIYEV, R.K.; OSINA, Ye.Ye.; GAUZER, Ye.G.; IGONETS, G.Ya.

Industrial method of manufacturing triprotamine sulfate from sturgeon milt. Izv.AN Azerb.SSR no.1:101-110 Ja '57. (MLRA 10:5)
(Krasnodar Territory)--Snails)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZER, YE. G.

ALIYEV, R.K.; OSINA, Ye.Ye.; GAUZER, Ye.G.

Method for commercial production of cholenzyme. Dokl. AN Azerb. SSR 13 no.4:419-424 '57. (MLRA 10:7)

1. Azerbaydzgabskoy meditsinskiy institut. Predstavleno akademikom Akademii nauk Azerbaydzhanskoy SSR M.A. Topchibashevym.
(ENDOCRINOLOGY) (PHARMACY) (MATERIA MEDICA, ANIMAL)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

ALIYEV, R.K.; OSINA, Ye.Ye.; GAUZER, Ye.G.

Industrial method for preparing artificial gastric juice.
Dokl. AN Azerb. SSR 14 no.12:1053-1058 '58. (MIRA 12:1)

1.Azerbaydzhanskiy meditsinskiy institut im. N. Narimanova.
Predstavleno akademikom AN AzerSSR A.I. Karayevym.
(GASTRIC JUICE)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZER, Ye.G.

Thyroid gland in cattle and its ontogenic development. Trudy Sekt. fiziol. AN Azerb. SSR 3:97-103 '60. (MIRA 13:10)
(THYROID GLAND) (CATTLE--PHYSIOLOGY)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

ALIYEV, R.K.; GAUZER, Ye.G.; IGONETS, G.Ya.; AKHVERDIYEV, S.M.

"Hepavit," a new vitamin-rich liver preparation, its raw materials and production. Izv.AN Azerb.SSR.Ser.biol.i med.nauk 3:95-100 '61. (MIRA 14:7)

(Liver extract)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

[redacted], Ye.G.

Thyroid gland in cattle in ontogenesis. Report No.2. Vop. fiziol. 6:119-126 '63. (MIRA 17:11)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZER, Ye.G.; ALIYEV, M.G.; ISMAIL'ADE, A.I.; [illegible]

Biological activity of iodide naphthene. Izv. AN Azerb. SSR. Ser. biol. nauk no.2:97-101 '64.

(MIRA 17:10)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

MEKHTIYEV, M.A.; GAUZER, Ye.G.; ASKEROV, F.B.

Functional state of the thyroid gland in sheep tested by the accumulation of radioiodine (I^{131}). Dokl. AN Azerb. SSR 21 no.2:55-58 '65. (MIRA 18:5)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

KULIYEVA, G.; MIRZAZADE, A.; GAUZER, Ye.; ZHEREBCHEVSKAYA, T.

Therapeutic importance of methionine in thyrotoxicosis.
Azerb. med. zhur. 41 no.8:46-50 Ag '64. (MIRA 18:11)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, M. Ya.

Copyless fine boring of hyperboloid holes. Stan. i instr. 36 no. 12:19-21 D '65 (MIRA 19:1)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER,S.I.

New method of loading double railroad cars for weighing and balancing. Izm. tekh. no.1:52-55 Ja-F '55. (MLRA 8:9)
(Railroads--Freight cars) (Weighing--Machines)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I.

Weighing equipment in railroad transport. Izm.tekh. no.4:95-97 Jl-Ag '56. (MLRA 9:11)
(Railroads--Equipment and supplies)
(Weighing machines)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I., red.

[Instructions 54-56 for checking automatic batching scales for a limit weight over 5 kg.] Instruktsiia 54-56 po poverke avtomaticheskikh portsionnykh vesov dlia predel'noi nagruzki svyshe 5 kg. Izd. ofitsial'noe. Moskva, 1956. 18 p.
(MIRA 14:5)

1. Russia(1923- U.S.S.R.) Komitet standartov, mer i izmeritel'nykh priborov.
(Scales(Weighing instruments) --Testing)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I., red.; KUZNETSOVA, M.A., red. izd-va; KONDRAT'YEVA, M.A., tekhn. red.

(Instruction 50-57 for checking equal-arm steelyards] Instruktsiia 50-57 po poverke rychazhnykh bezmenov. Izd. ofitsial'noe. Moskva, 1957. 6 p. (MIRA 14:5)

1. Russia (1923- U.S.S.R.) Komitet standartov, mer i izmeritel'nykh priborov.
(Steelyards--Testing)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I., red.

[Instructions 64-56 for checking quadrants] Instruktsiia 64-56 po poverke kvadrantov. Izd. ofitsial'noe. Moskva, 1957. 7 p. (MIRA 14:5)

1. Russia (1923- U.S.S.R.) Komitet standartov, mer i izmeritel'nykh priborov.
(Quadrants--Testing)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I., red.

[Instructions 63-55 for checking table dial balances] Instruktsiia 63-55 po poverke nastol'nykh tsiferblatnykh vesov. Izd. ofitsial'noe. Moskva, 1957. 10 p. (MIRA 14:5)

1. Russia(1923- U.S.S.R.) Komitet standartov, mer i izmeritel'nykh priborov.

(Balance--Testing)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I., red.; KUZNETSOVA, M.I., red. izd-va; MATVEYEVA,A.Ye., tekhn. red.

[Instructions 49-57 for checking movable unequal-arm scales] Instruktsiia 49-57 po poverke neravnoplechikh peredvizhnykh vesov. Izd. ofitsial'noe. Moskva, 1957. 15 p. (MIRA 14:5)

1. Russia (1923- U.S.S.R.) Komitet standartov, mer i izmeritel'nykh priborov.
(Scales (Weighing instruments)—Testing)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I., red.

[Instructions 40-56 for checking standard balances] Instruktsiia 40-56 po poverke obraztsovykh vesov. Izd. ofitsial'noe. Moskva, 1957. 27 p. (MIRA 14:5)

1. Russia(1923- U.S.S.R.) Komitet standartov, mer i izmeritel'nykh priborov.
(Balance--Testing)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I., red.

[Instructions 53-56 for checking automatic batching scales for loads up to 5 kg.] Instruktsiia 53-56 po poverke avtomaticheskikh portsionnykh vesov dlia nagruzok 5 kg i menee. Izd. ofitsial'noe. Moskva, 1956. 11 p. (MIRA 14:5)

1. Russia(1923- U.S.S.R.) Komitet standartov, mer i izmeritel'nykh priborov.
(Scales(Weighing instruments)--Testing)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I., red.; KUZNETSOVA, M.I., red. izd-va; MATVEYEVA, A.Ye., tekhn. red.

[Instructions 59-57 for checking liter-size grain testers] Instruktsiia 59-57 po poverke rabochikh litrovykh vurok. Izd. ofitsial'noe. Moskva, 1958. 7 p. (MIRA 14:5)

1. Russia (1923- U.S.S.R.) Komitet standartov, mer i izmeritel'nykh priborov.
(Balance--Testing)
(Grain trade--Equipment and supplies)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I.

Conference of specialists on weighing-machines. Izm.tekh.no.1:82-83 Ja-F '57. (MLRA 10:4)
(Weighing-machines)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I., red.; KUZNETSOVA, M.I., red. izd-va; MATVEYEVA, A.Ye., tekhn. red.

[Instructions 47-57 for checking table balances] Instruktsiia 47-57 po poverke nastol'nykh vesov. Izd. ofitsial'noe. Moskva, 1958. 11 p. (MIRA 14:5)

1. Russia (1923- U.S.S.R.) Komitet standartov, mer i izmeritel'nykh priborov.
(Balance--Testing)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I.

The first all-Union scientific-technical conference of workers of the weighing-machine industry. Izm.tekh. no.4:41 Ap '59. (MIRA 12:5)

(Weighing machines)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I.

Checking automobile scales. Izm.tekh. no.3:8-11 Mr '60.
(MIRA 13:6)
(Scales (Weighing instruments)--Testing)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I.

Portable general-use dynamometers. Standartizatsiia 24 no.12:43 D '60. (MIRA 13:11)
(Dynamometer--Standards)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I.

Exhibition of testing machines and vibratory equipment made in East Germany. Izm. tekh. no. 1:62-63 Ja '61. (MIRA 14:1)
(Germany, East--Testing machines) (Germany, East--Vibrators)
(Moscow--Exhibitions)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I.

Conference on production quality. Izm.tekh. no.4:60-61 Ap '62. (MIRA 15:4)
(Quality control)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

GAUZNER, S.I.

Scales. Standartizatsiia 27 no.2:45-47 F '63. (MIRA 16:4)

(Scales(Weighing instruments))

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

[illegible], [illegible]; [illegible], [illegible]; [illegible]OVICH, A.M.; [illegible]; [illegible], [illegible]; [illegible] L.Ye., inzh., red.

[Design of elastic strain-measuring elements] Raschety uprugikh tenzometricheskikh elementov. Moskva, Mashinostroenie, 1964. 190 p. [illegible]

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

OSOKINA, Ada Panteleymonovna; GAUZNER, S.I., retsenzent

[Standardization of testing machines and weighing devices] Tipizatsiia ispytatel'nykh mashin i vesoizmeritel'nykh priborov. Moskva, Mashinostroenie, 1965. 302 p. (MIRA 18:11)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

ANDREYEV, I.F.; GAUZSHTEYN, D.M.

Biological characteristics of wood mice of the genus Apodemus in Moldavia. Uch. zap. Kish. un. 13:95-108 '54. (MLRA 9:10)

(Moldavia--Field mice)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

(GAUZSHTEYN, D. M.)

14-57-6-12656

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6, p 127 (USSR)

AUTHOR: Gauzshteyn, D. M.

TITLE: Winter Ornithology of the Moldavian SSR (Zimniy sostav ornitofauny Moldavskoy SSR)

PERIODICAL: Uch. zap. Kishenevsk. un-ta, 1956, Vol 23, Nr 2, pp 135-140

ABSTRACT: Studies of birds wintering in Moldavia were undertaken in 1954-55. They covered the central, wooded section of the republic but not the steppe region nor the valleys of the Dnestr and Prut Rivers. Local species (50 varieties) predominate among birds which spend winters here, but six migrants were observed to come here from the north. These were: moss-billed owl, falcon, bullfinch, diver, cedar-bird, and cross-bill. The number of wintering birds varies, because some

Card 1/2

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420006-9

Winter Ornithology of the Moldavian SSR (Cont.) 14-57-6-12656

species occasionally migrate south to the Budzha steppes and to the Balkans. The number of wintering birds is small. The forest species which come from the north usually stop in the Carpathian Mountains. The cross-bills, bullfinches, divers, and creepers which are found in Moldavia during the winter are migratory Carpathian species. The article contains a bibliography of 11 titles.

Card 2/2

O. N. Sh.

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KUNITSKIY, V.N.; GAUZSHTEYN, D.M.

Methods of censusing fleas in the entrances of burrows of the greater gerbil (Rhombomys opimus Licht.) Zool. zhur. 42 no.11:1743-1745 '63. (MIRA 17:2)

1. Central Asiatic Research Anti-Plague Institute, Alma-Ata.

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GAUZSHTEYN, D.M.; KUNITSKIY, V.N.

Species of fleas on birds of the southern Balkhash Lake region as related to the possible participation of birds in spreading the plague infection. Zool. zhur. 43 no.10:1473-1479 '64.
(MIRA 17:12)

1. Central Asian Research Anti-Plague Institute (Alma-Ata).

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GAVAGA, V.S.; KUZNETSOVA, G.M.; DYMURA, N.O.

Protective coatings made from perchlorovinyl lacquer. Koks i khim no.4:47-49 '62. (MIRA 16:8)

1. Zhdanovskiy koksokhimicheskiy zavod.
(Protective coatings)

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VEKSEL'MAN, S.N.; ANSTISLAVSKIY, D.M.; GAVAGA, V.V.

Experiment in the heat regulation in the Giprokoks PK-42 system ovens. Koks i khim. no.7:26-28 '65. (MIRA 18:8)

1. Koksokhimstantsiya (for Vekselʹman). 2. Zhdanovskiy koksokhimicheskiy zavod (for Anstislavskiy, Gavaga).

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GAVAKETASHVILI, A.G.

Inheritance and change of some characters in interspecific grape hybrids. Soob. AN Gruz. SSR 35 no.2:395-402 Ag '64.

(MIRA 17:12)

1. Institut sadovodstva, vinogradarstva i vinodeliya, Telavskaya opytnaya stantsiya, Tbilisi. Submitted January 20, 1964.

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TIPSHIDZE, N. N.; CHUMBURIDZE, T. I.; TSISHVELASHVILI, L. N.; [illegible]
TORDIYA, M. V.; DUMBADZE, Z. G.; GALUSTASHVILI, M. S.; [illegible], A. A.;
GAVAKHISHVILI, N. N.

Studies on Cardiovascular System, some Biochemical, Hematologic and Haemostatic Blood Indications in Old Age. Clinical Cardiology

Gerontalogy, 6th International Congress, Copenhagen, Denmark
11-16 August 1963

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GAVALA, S.; ALIMOV, I.

Some new aspects in planning and analyzing certain traffic indexes.
Rev cailor fer 10 no.4:170-175 Ap '62.

1. Directia regionala C.F. Iasi.

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L 19501-65 EPR/EWT(m)/EWP(b)/T/EWP(t) Ps-4/Pad AEDC(a)/SSD/AFWL/ESD(t)/
IJP(c) JD/HW

ACCESSION NR: AP4048316 Z/0065/64/000/005/0425/0432

AUTHOR: Duhaj, P. (Dukhay, P.); Havalda, A. (Gavalda, A.)

TITLE: Study of the morphology of the γ' precipitate in nickel-base alloys with titanium and aluminum

SOURCE: Kovove materialy, no. 5, 1964, 425-432

TOPIC TAGS: precipitation, nickel base alloy, precipitation temperature, nucleation, solid phase, diffusion, particle growth rate, titanium aluminum alloy

ABSTRACT: The morphology (cubical, spherical, and irregular cellular) of the γ' precipitate was studied. In studying the equilibrium states of the pseudoternary system Ni_3Cr - Ni_3Ti - Ni_3Al at 850C in alloys from the two phase γ + γ' area where the γ' phase precipitated from the solid phase, the size and morphology in relation to the chemical composition of the alloy were investigated. The results of the investigation are in partial agreement with those of Beattie and Hagel, who relate the morphology of the γ' precipitate to the difference of the lattice parameter of the precipitate and of the matrix, and to the deformation energy of

Card 1/2

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the crystal lattice of the precipitate in the coherent state. The γ' precipitates were annealed for 1000 hr at 850C, at which point it cannot be assumed that coherence exists. The author concludes, therefore, that the degree of disagreement cannot be the principal factor determining the morphology of the precipitate in Ni-base alloys. Upon the loss of coherence, the Ti + Al content has the main influence in that the surface tension is affected in a different way. The author concludes that the size of the γ' is dependent principally on the Ti + Al content because with increased concentration of these elements the diffusion of the atoms is shortened in the course of the precipitation of the γ' phase. Their growth rate will depend on the diffusion rate of the predominant element in the alloy under the condition that at a given temperature the quantity of forming nuclei is constant in all the alloys, and is dependent principally on the precipitation temperature and the homogenizing temperature. Orig. art. has: 7 figures and 1 table.

ASSOCIATION: CSAV, Laboratorium fyziky kovov SAV, Bratislava (CSAV, Laboratory of the Physics of Metals, Slovak AS)

SUBMITTED: 22Apr64 ENCL: 00 SUB CODE: MM, SS

NO REF SOV: 000 OTHER: 007

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S/185/62/007/010/005/020
D234/D308

AUTHOR: Havaleshko, M. P.

TITLE: Methods of measuring magnetic susceptibility

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 10, 1962, 1068-1077

TEXT: A detailed description is given of the principal elements of a new measuring installation, especially of the weighing system. The installation is an improvement of that described by W. G. Henry and J. L. Rogers (Phil. Mag., v. 1, no. 3, 1957). The electromagnet has pole ends of special form securing two domains with small field gradient along the specimen, but they are not necessary since the position of specimen does not change during the measurement. Susceptibility can be measured between 77 and 1000°K, and the results are recorded by an ЭПП-09 (EPP-09) automatic recording potentiometer. The temperature range can be extended to 1300°K by placing the specimen in a quartz ampoule instead of a glass one. It is necessary to know the length and the mass of the specimen; the cross-section

Card 1/2

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area is required only for the correction factor due to presence of air, etc. Conductivity, thermal e.m.f. and the Hall effect can be measured with the same installation. Values of susceptibility obtained by the author for various substances are compared with those given by other authors. The total error does not exceed 1%, the contribution of the error in determining the field intensity being the largest. The sensitivity is of the order of 10^{-11} cgs susceptibility units per gram. There are 5 figures and 1 table.

ASSOCIATION: Chernivets'kyy derzhuniversytet (Chernivtsi State University)

SUBMITTED: February 21, 1962

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