

LAPKIN, V.N.

Installation of reinforced concrete poles for electric transmission lines. Transp. stroi. 12 no.5:17-18 My '62. (MIRA 15:6)

1. Nachal'nik Planovo-proizvodstvennogo otdela SMP-240 Dneprotransstroya.

(Electric lines--Poles and towers)
(Concrete products)

3331E

S/560/61/000/010/009/016
D298/D302

27.1220

AUTHORS: Glembotskiy, Ya. L., Abelyeva, E. A., Lapkin,
Yu. A., and Parfenov, G. P.

TITLE: The effect of cosmic flight factors on the
occurrence frequency in *Drosophila Melano-*
gaster of recessive lethal mutations in the
X-chromosome

SOURCE: Akademiya nauk SSSR. *Iskusstvennyye sputniki*
Zemli. no. 10. Moscow, 1961, 61-68

TEXT: Reference is made to early studies of mutagenic changes
under the effects of ionizing radiation. Experiments on yeast
and drosophila pointed out the minimal effect of cosmic radia-
tion on the natural mutation process. Further studies on drosoc-
phila confirmed the insignificance of cosmic radiation in spon-
taneous mutation. More recent studies have been undertaken by
the authors on two strains of *Drosophila Melanogaster*--the A-32

Card 1/4

33311

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D298/D302

The effect of cosmic...

(D-32) and D-18 (D-18)--to determine the mutagenic effect after a cosmic flight on the organism. The flight of the 2nd Sputnik, lasting about 24 hr. and conducted at a height of 300 km, was used to study the effects of cosmic radiation on the heredity of the drosophila. Two types of tests were carried out: (1) to determine the occurrence frequency of recessive lethal mutations in the X-chromosome (sex-linked), and (2) to determine the occurrence frequency of dominant lethal mutations causing death in the early developmental stage of heterozygous organisms in these mutations. The mutability of the two spermatogenic stages was compared--that of the spermatid and that of the mature sperms. The frequency of induced mutations was studied, depending on the frequency of spontaneous mutations. Cross-breeding of the flies which underwent cosmic flight was performed in August 1961 to determine the sex-linked recessive lethals. The Muller-5 method was used for this purpose. The F₂ (second generation) culture percentage with no grey-red-eyed females was taken

Card 2/4

The effect of cosmic...

33311
S/560/61/000/010/009/016
D298/D302

as index of the occurrence frequency of recessive lethal mutations in the X-chromosomes of the females which had been in cosmic flight. In both strains (D-32 and D-18), it was found that the mutagenic effect is characterized by a statistically valid increased frequency of sex-linked recessive lethal mutations, whereby the D-18 strain (with a higher spontaneous mutability) appeared to be the more sensitive to mutagenic effect. The dotted nature of the induced mutations (20 tested cytologically) and the elevated frequency of mutation of the spermatid, as compared to the sperms, indicates their possible stipulation by cosmic radiation. It is emphasized that an accurate determination cannot be made of the role played by cosmic radiation in the mutagenic effect noted during relatively short cosmic flights. Further experiments to clarify the mutagenic effect of vibrations, acceleration, and weightlessness should be carried out. There are 1 figure, 1 table and 11 references: 2 Soviet-bloc and 9 non-Soviet-bloc. The references to the English-language publications read as follows: O. G. Fahmy,

X

Card 3/4

The effect of cosmic...

M. I. Fahmy, Genet. Res., 1, 173, 1960; P. T. Ives, Proc. Nat. Acad. Sci. USA, 45, N 2, 1959.

SUBMITTED: May 3, 1961

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D/560/61/000/010/009/016
D298/D302

X

Card 4/4

GLEMBOTSKIY, Ya.L.; ABELEVA, E.A.; LAPIN, Yu.A.

Effect of fractionation of the gamma-ray dose on mutation frequency
in spermatids of *Drosophila melanogaster*. Radiobiologia 1 no.1:
119-122 '61. (MIRA 14:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(GAMMA RAYS--PHYSIOLOGICAL EFFECT)
(ZOOLOGY--VARIATION)

42696

S/747/62/000/000/020/025
D243/D307

27.1220

AUTHORS: Glembotskiy, Ya. L., Abeleva, E. A. and Lapkin, Yu. A.

TITLE: The effect of small doses of ionizing radiation on the frequency of occurrence of sex-linked, recessive, lethal mutations in *Drosophila*

SOURCE: Radiatsionnaya genetika; sbornik rabot. Otd. biol. nauk AN SSSR. Moscow, Izd-vo AN SSSR, 1962, 300-311

TEXT: The preliminary results are given of experiments carried out from 1959 to March 1961, to study the effect of 20 r doses of radiation on the frequency of sex-linked, recessive lethals, in relation to a) type of radiation - γ rays or high speed neutrons; b) radiation intensity - single or repeated doses; c) gamete development - mature sperm or spermatids; d) interstrain differences in spontaneous mutation rate. It is stated that little work has been done on the effects of sub-25 r doses, especially as regards the existence of a threshold and accumulative effects. The experiments were carried out on Δ -18 and Δ -32 (D-18 and D-32) *Drosophila* lines, dif-

Card 1/2

The effect of small ...

S/747/62/000/000/020/025
D243/D307

and induced lethals were detected by the Muller-5 method. Spontaneous γ rays were delivered at 0.93 r/min. Experiments with high-speed neutrons began in May 1960, using a 1000 kv reactor, the dose intensity being 115 r/hr. The results refer only to experiments with D-32 line. The authors found that 5-r doses of γ radiation increased the frequency of recessive lethals in sperm and spermatids and repeated radiation produced a cumulative, mutagenic effect. The relative frequency of recessive lethals per radiation induced by repeated 5 r γ radiation agrees with the data of other authors using higher single doses. The mutagenic effect of high-speed neutrons is 1 1/2 - 2 times greater than that of γ rays. Spermatids had a higher mutation rate than sperm, with both types of radiation. No threshold effect was demonstrated and it is suggested that, should a threshold be detected, it will be specific to the type of radiation, type of mutation, stage of gametogenesis, and the organism. The danger to human germinal cells of low doses of γ rays, and especially, high-speed neutrons is stressed. There are 3 tables.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moskva (Institute of Biological Physics, AS USSR, Moscow)

Card 2/2

GLEMBOTSKIY, Ya.L.; ABELEVA, E.A.; LAPKIN, Yu.A.; PARFENOV, G.P.

Effect of space flight factors on the frequency of the appearance
of recessive lethal mutations in the x-chromosome of *Drosophila*
melanogaster. *Probl.kosm.biol.* 1:219-231 '62. (MIRA 15:12)
(SPACE FLIGHT—PHYSIOLOGICAL EFFECT)
(VARIATION (BIOLOGY))

ABELEVA, E.A.; PARFENOV, G.P.; LAPKIN, Yu.A.

Crossing-over of *Drosophila Melanogaster* males caused by the
space flight factors. *Isk.sput.Zem.* no.13:119-122 '62.

(MIRA 15:7)

(Space biology)

ABELEVA, E.A.; LAPKIN, Yu.A.

Interdependence of the frequency of dominant lethal mutation and the dosage of radiation by fast neutrons in the spermatids of *Drosophila*.
Radiobiologia 2 no.2:293-297 '62. (MIRA 15:4)'

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(RADIATION—DOSAGE) (FRUIT FLIES)

GLEMBOTSKIY, Ya.L.; LAPKIN, Yu.A.; PARFENOV, G.P.; KAMSHILOVA, Ye.M.

Effect of cosmic flight factors on the frequency of occurrence
of sex-interlinked recessive lethal mutations in *Drosophila*
melanogaster. Kosm. issl. 1 no.2:327-334 S-0 '63.

(MIRA 17:4)

GLEMBOTSKIY, Ya.L.; PARFENOV, G.P.; LAPKIN, Yu.A.

Influence of space flight factors on the frequency of occurrence
of sexlinked recessive lethal mutations in *Drosophila melanogaster*.
Isk.sput.Zem. no.15:113-119 '63. (MIRA 16:4)
(Space biology)

L 11243-63

ACCESSION NR: AP3001067

EWT(1)/EWT(m)/BDS--AFFTC/AMD/ASD--AR/K

S/0205/63/003/003/0420/0421

56
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AUTHOR: Abeleva, E. A.; Lapkin, Yu. A.

TITLE: Frequency dependence of emergence of recessive sex-linked lethal mutations in spermatogenesis of *Drosophila* on fast neutron dose 19

SOURCE: Radiobiologiya, v. 3, no. 3, 1963, 420-421

TOPIC TAGS: mutations, fast neutron dose

ABSTRACT: Earlier investigations conducted to determine the frequency dependence of the emergence of dominant lethal mutations on fast neutron dose as compared with gamma rays did not offer conclusive results. Therefore, recessive sex-linked mutations were used in this study. Male *Drosophila* were irradiated with an IRT-1000 reactor in doses of 1000 and 2000 rad. Absorbed fast neutron doses were measured by an ionization method with a dose power of 725 rad/min. Comparison of data with earlier studies indicates that the relationship of mutation frequencies in spermatids and sperms with neutron irradiation of 1000 rad dose is approximately the same as for gamma radiation of 1000 r. Fast neutron radiation for sex-linked lethal mutations is approximately one and a half times more effective than gamma radiation but the general nature of regularity is entirely analogous. Orig. art. has: 1

Card 1/2

L 11243-63

ACCESSION NR: AP3001067

table.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moscow. (Institute of Biological Physics, AN SSSR)

SUBMITTED: 06Feb63

DATE ACQD: 01Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 002

OTHER: 002

ch/
Card 2/2

KUZIN, A.M.; GLEMBOTSKIY, Ya.L.; LAPKIN, Yu.A.; KALENDO, G.S.; BREGADZE, Yu.I.;
MAMUL', Ya.V. [deceased]; MYASNYANKINA, Ye.N.

Mutagenic effectiveness of incorporated C^{14} . Radiobiologiya 4 no.6:
804-809 '64. (MIRA 18:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

L 06540-67 EWT(1)/EWT(m)/EWP(j) IJP(c) RM/GW

ACC NR: AT6026959

SOURCE CODE: UR/3175/66/000/028/0144/0154

AUTHOR: Kott, Yu. P.; Lapkin, Yu. P.; Nikiforov, A. G.

E1
80
BT1

ORG: Institute of Acoustics (Akusticheskiy institut)

TITLE: Digital deep-sea thermometer 10

SOURCE: USSR. Gosudarstvennyy geologicheskiiy komitet. Osoboye konstruktorskoye byuro. Geofizicheskaya apparatura, no. 28, 1966, 144-154

TOPIC TAGS: oceanographic equipment, oceanographic instrument, data recording, recording equipment, parametric converter, digital analog converter, binary code, pulse coding, computer coding, telemetry, telemetry equipment, telemetry system, telemetry technique

ABSTRACT: The authors enumerate some of the shortcomings of various underwater data encoding and transmission systems and describe a fully transistorized experimental deep-sea instrument package (see Fig. 1) for recording temperature and pressure (depth) to 2000 m. The following are the unit's characteristics: 1) depth-measurement range, 0-2023 m; 2) depth transducer measurement error 0.8%; 3) temperature-measurement range, -0.594 to +28.97C; 4) temperature-transducer time constant, 3 sec; 5) container weight, ~100 kg; 6) length of cable on winch drum, 3.5 km; 7) measurement time for one parameter, 3 sec; 8) scale resolution, temperature, 0.0289C; 9) scale resolution, depth, 1.99 m. Measurement results are put into a ten-bit

Card 1/3

L 06540-67

ACC NR: AT6026959

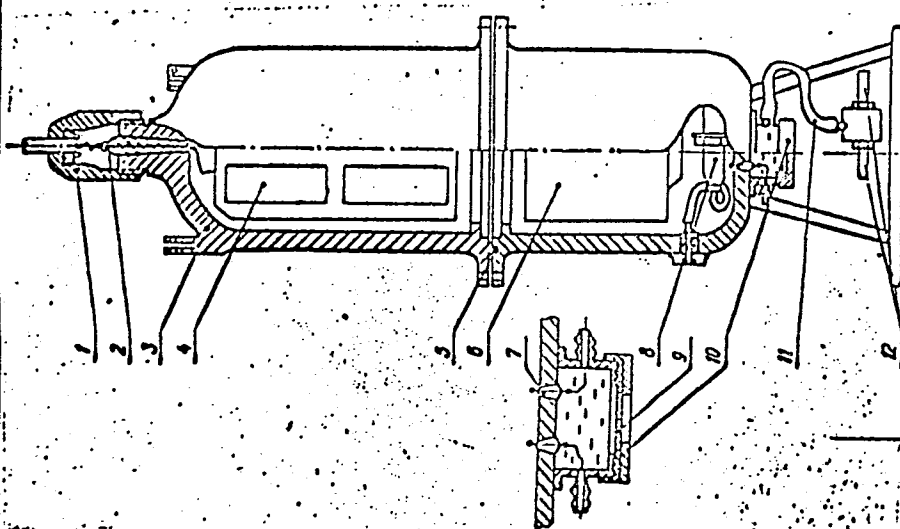


Fig. 1. Deep-sea instrument package

- 1 - Cable coupling;
- 2 & 7 - electrical leads;
- 3 - casing;
- 4 - storage battery;
- 5 - rubber sealing gasket;
- 6 - digital measuring system;
- 8 - pressure transducer;
- 9 - rubber diaphragm;
- 10 - oil cavity;
- 11 - oil-filled polyethylene tubes;
- 12 - resistance thermometer.

Card 2/3

L 06540-67

ACC NR: AT6026959

binary code and transmitted by a single-core cable to the deck. These results are then converted into an octal code and recorded on control and punched tapes using an STA-2M program punch for a Minsk-1 computer, and on graph paper by an EPP-09 3-point recording potentiometer. Block diagrams of the measuring system and shipboard recording unit are presented, and detailed descriptions of their operation are given. The container measuring system is said to occupy a space 150-mm in diameter and 210 mm in height. Calibration of the instrument package is performed in calm weather using two types of reversing thermometers at appropriate depths. One stated shortcoming of the package is the disparity in precision between the telemetering system and the potentiometric depth transducer. This disadvantage is to be overcome by using a tensometric pressure transducer. Orig. art. has: 3 figures, 1 table, and 3 graphs. [LB]

SUB CODE: 08, 09/ SUBM DATE: none/ ORIG REF: 020/ OTH REF: 007

Card 3/3 *o.h.*

KULESH, K.F.; KONEV, F.A. [Koniev, F.A.]; BUGRIM, N.A. [Buhrim, N.A.];
Prinimali uchastiye: LAPKINA, A.M.; GENDENSHTEYN, Ye.I.

Increasing the production of prepared drugs by lowering the
number of extemporaneous prescriptions of pharmacies.
Farmatsev. zhur. 18 no.5:3-7 '63. (MIRA 17:8)

1. Kar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevti-
cheskiy institut.

SEMENDYAYEVA, M.Ye.; GUSEVA, T.M.; PONOMAREVA, O.A.; LAPKINA, G.V.;
MIKIRTUMOV, S.M.

Activity of arginase in the blood serum and points of the liver
during Botkin's epidemic hepatitis. Vop.med.virus. no.9:275-281
'64. (MIRA 18:4)

1. Iz laboratorii deystvitel'nogo chlena AMN SSSR prof. Ye.M.
Tareyeva.

PASHKANG, K.V.; VASIL'YEVA, I.V.; LYUBUSHKINA, S.G.; LAPKINA, N.A.

Landform study of a state farm territory for agricultural purposes. Vest. Mosk. un. Ser. 5: Geog. 17 no.4:6-14 J1-Ag '62. (MIRA 16:1)

1. Geografo-biologicheskii fakul'tet Moskovskogo gosudarstvennogo pedagogicheskogo instituta imeni V.I.Lenina. (Kaluga Province--Landforms)

LAPKINA, N.A.

"World atlas." Reviewed by N.A.Lapkina. Geog.v shkole 18
no.4:74-76 J1-Ag '55. (MIRA 8:10)
(Atlases)

LAPKINA, N.A.

6-10-12/12

AUTHOR: None given
TITLE: Bibliography (Bibliografiya)
PERIODICAL: Geodeziya i Kartografiya, 1957, Nr 10, pp 79-80 (USSR)

ABSTRACT:

- 1.) Gauss, K. F. "Selected Geodetical Works", Vol. I, 1957, 152 pages.
- 2.) Gaustov, I. "A Daring Research Mountaineer", 1957, 55 pages. Biography of Andrey Vasil'yevich Pastukhov (1858-1899), who climbed the Kazbek in 1889, the Elbrus in 1890 and 1896, and the Ararat in 1893.
- 3.) Gedymin, A. V. "Methodical Indications for the Cartographical Course for the 1. Semester of the Geographical Department of Universities."
- 4.) Yevseyev, S.V. "On Some Regularities of the Field of Gravitation of the Earth and its Importance for Geodesy and Geophysics", 1957, 72 pages, Kiyev, price Roubles 3,80, edition 1500.
- 5.) Committee for Geodesy and Geophysics: Basic theses of the reports presented at the XI General Assembly of the International Union for Geodesy and Geophysics. International Association for Scientific Hydrology of the AN USSR, 1957, 103 pages.
- 6.) Works of the Institute for Geodesic-, Air Survey-, and Cartographical Engineers of Novosibirsk, Vol. VIII, 1957, 121 pages.

Card 1/2

Bibliography

6-10-12/12

- 7.) Works of the Central Scientific Research Institute for Geodesy, Air Survey, and Cartography, fasc. 109. Album of cartographical types of letters, 1957, 192 pages, Roubles 16.-, edition 1000.
- 8.) Zaitov, I. R., Indichenko, I. G. "Stereoscopic Cameras for Purposes of Measuring". Periodical for scientific and applied photography and cinematography, Vol. 2, fasc. 3, 1957, pp 212-218.
- 9.) Lapkina, N. A. "The First Russian Hypsometrical Geographical Maps". Scientific remarks of the Moscow Municipal Institute for Pedagogics imeni V. P. Potemkin, Vol. 66. Works of the Geographical Department fasc. 5, pp 149-158.

AVAILABLE: Library of Congress
Card 2/2

LAPKINA, Natal'ya Aleksandrovna, prepodavatel'; PORUBINOVSKIY, Aleksandr
Mikheylovich, prepodavatel' [deceased]; TSVETKOVA, Galina Aleksandrovna,
prepodavatel'; NEKLYUKOVA, Nina Petrovna, prepodavatel'; SOKOLOVA,
Varvara Vladimirovna, prepodavatel'; VODOVOZOVA, Mariya Vladimirovna,
prepodavatel'; FISHCHEVA, T.V., red.; SMIRNOVA, M.I., tekhn.red.

[Extracurricular field work on geography; teachers' manual] Vneklas-
naya rabota po geografii v prirode; posobie dlia uchitelei. Moskva,
Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1959. 189 p.

(MIRA 12:11)

1. Kafedra obshchey fizicheskoy geografii geograficheskogo fakul'-
teta Moskovskogo gorodskogo pedagogicheskogo instituta im.V.P.
Potemkina (for all except Fishcheva, Smirnova).
(Geography--Study and teaching)

LAPKINA, Nataliya Aleksandrovna; FISHCHEVA, T.V., red.; ZAYTSEVA, K.F.,
red. kart; TYUTYUNNIK, S.G., red. kart; KARPOVA, T.V., tekhn.
red.

[Practical work in topography and cartography; a manual for
atudents] Prakticheskie raboty po topografii i kartografii; po-
sobie dlia studentov. Moskva, Gos. uchebno-pedagog. izd-vo
M-va prosv. RSFSR, 1961. 119 p. ___ Maps. (MIRA 15:3)
(Topographical surveying--Problems, exercises, etc.)
(Cartography--Problems, exercises, etc.)

VASIL'YEVA, I.V.; LAPKINA, N.A.; LYUBUSHKINA, S.G.; PASHKANG, K.V.;
RYCHAGOV, G.I.

Leading role of the lithogenic basis in landform formation.
Vest. Mosk. un. Ser. 5: Geog. 18 no.4:44-47 J1-Ag'63.

(MIRA 17:2)

1. Geografo-biologicheskii fakul'tet Moskovskogo gosudarstvennogo
pedagogicheskogo instituta imeni Lenina.

CA
LAPKINA N. B. 7

Detection of ethylene glycol in forensic analysis. N. B. Lapkina and V. A. Nazarenko (Odessa Regional Forensic Med. Lab.). *Zhur. Anal. Khim.* 6, 282-4 (1931).—Grind 10 g. of liver (or stomach fluid if death occurred soon after intake of ethylene glycol) with 5 g. of cryst. oxalic acid. Transfer into 100-ml. flask, add 50 ml. benzene, connect upright condenser provided with a calibrated H₂O trap, and heat on water bath. Heat for 12-15 hrs. until H₂O in trap does not increase. Transfer 5 ml. of distillate to a test tube, add 5 ml. of 1:8 H₂SO₄, add 5 drops of 5% NaIO₃ or KIO₃ in 5% H₂SO₄; after 5 min. add dropwise a satd. soln. of H₂SO₄ to decolorize I, add 4 drops of fuchsin sulfonic acid, and stopper test tube. After 3-30 min. intense red-violet or pink color indicates the presence of ethylene glycol.
M. Hesch

C-2

BA

LAPKINA N. B.

2371. Identification reactions for dichloroethane. V. A. Nazarenko and N. B. Lapkina (*J. anal. Chem., USSR*, 1952, 7, 92-93).—1:2-Dichloroethane can be detected by means of reactions giving ethylene glycol, acetylene, or ethylenediamine. The first two can be used for its detection in aq. solutions. 0.5 ml. of the solution is placed with 0.5 ml. of 10% NaOH in a 1 ml. ampoule and the sealed ampoule is heated at 100° for 1 hr. The contents are then transferred to a tube, 6-7 drops of 1:8 aq. H₂SO₄ are added and 2 drops of 5% KIO₄ in n-H₂SO₄. After 5 min. the liberated I₂ is removed by dropwise addition of SO₂ solution and 2 drops of Schiff's reagent are added. A red colour indicates 1:2-dichloroethane. 0.4 mg. can be detected at a dilution of 1:1200. 1:2-Dibromoethane and allyl bromide interfere. For the formation of acetylene, 0.5 ml. of the 1:2-dichloroethane solution and 0.5 ml. of 30% NaOH are introduced into an ampoule with as little mixing as possible. The ampoule is sealed, the contents mixed, and the vessel heated at 100° for 30 min. The liquid is then transferred to a test-tube by means of a capillary pipette, 30% acetic acid is added dropwise to give an acid reaction in litmus, and the solution is treated with 2 drops of ammoniacal Cu solution. A red or cherry-red colour with gradual formation of a ppt. indicates 1:2-dichloroethane. The Cu solution is prepared by dissolving 1 g. of Cu(NO₃)₂ and 4 g. of hydroxylamine hydrochloride in a small amount of water, addition of 5 ml. of 20% aq. NH₃, and dilution to 50 ml. after decolorisation. 0.25 mg. can be detected at a dilution of 1:2000. 1:1-Dichloroethane, 1:2-dibromoethane, and 1:1:2-trichloroethane give similar colours, and 1:1:2:2-tetrachloro- and 1:1:2:2-tetrabromoethane, tribromoethylene, and acetylene dichloride interfere by giving a yellow cloudiness. For the formation of ethylenediamine 1 drop of 1:2-dichloroethane (0.001-0.005 ml.) is

heated with 0.5 ml. of 25% aq. NH₃ in a closed ampoule for several hr. The liquid is evaporated to dryness and the residue is dissolved in 1-3 drops of water. One drop is treated with 1 drop of KI in solution. The characteristic crystals are observed. 1:2-Dibromoethane interferes. No interference occurs in any of the reactions in presence of CHCl₃, CCl₄, monochloroethane, 1:1:1-trichloroethane, 1:1:1:2-tetrachloroethane, pentabromoethane, or chloral.

G. S. SMITH.

18

CA

Steric hindrance in organomagnesium reactions. X. Peculiar course of reaction between *o*-monochloro-substituted ethers and arylmagnesium halides. New method of preparation of sterically hindered symmetric diarylethanes hydrocarbons. I. I. Lapkin and O. M. Lapkina (A. M. Gor'kii State Univ., Molotov). *Zhurn. Obshchei Khim.* (J. Gen. Chem.) 21, 108-17(1951); cf. *C.A.* 41, 1219a; 44, 1055a. — While mono-*o*-substituted ArMgX react with ClCH₂OMe or ClCH₂OEt normally, the action of di-*o*-substituted ArMgX also yields *o*-substituted benzyl chlorides or diarylethanes. From 2,4,6-Me₃C₆H₂MgBr (from 30 g.

Me₃C₆H₂Br and 7 g. Mg) in Et₂O treated with cooling with 14.5 g. (ClCH₂)₂O in Et₂O, refluxed 7 hrs., and worked up in the usual way was isolated 45% (2,4,6-Me₃C₆H₂CH₂Cl, m. 148-7° (sublimed for purification). Similarly, a 3-hr. reaction of *o*-MeC₆H₄MgBr and ClCH₂OMe gave 51% *o*-MeOCH₂C₆H₄Me, bp 97°, d₄²⁰ 0.9777, n_D²⁰ 1.5040; 1-C₆H₄MgBr gave 55% 1-C₆H₄CH₂OMe, bp 106-7°, d₄²⁰ 1.0830, n_D²⁰ 1.6037, and some unknown higher-boiling products. ClCH₂OEt gave 54% 1-C₆H₄CH₂OEt, bp 116-16°, d₄²⁰ 1.1001, n_D²⁰ 1.6076. Addn. of 40 g. Me₃C₆H₂Br with ice cooling Me₃C₆H₂MgBr (from 100 g. Me₃C₆H₂Br) with ice cooling and refluxing 7 hrs. gave 40 g. 2,4,6-Me₃C₆H₂CH₂OMe, bp 93-4°, d₄²⁰ 0.9484, n_D²⁰ 1.5100, and 9% 1,2-dimethylethane (I), m. 117-18° (crude bp. 130-90°) (from petr. ether); reversing the order of addn. gives 42% of the above ether and 58% 2,4,6-Me₃C₆H₂CH₂Cl, which was not isolated as such but detected by treatment of the crude distillate (bp 90-107°) with iso-AmONa in iso-AmOH, which gave 2,4,6-Me₃C₆H₂CH₂OAm-iso, bp 127-8°, d₄²⁰ 0.9116, n_D²⁰ 1.4950. The Et₂O soln. of RMgBr from 40 g. bromomesitylene decanted from the excess Mg and added to 16 g. ClCH₂OMe, followed by addn. of 2 mole-% CuCl₂ and 2 g. activated Mg (by EtBr), and refluxed 5 hrs., gave 24% I. Addn. of 10 g. ClCH₂OEt to RMgBr (from 40 g. bromomesitylene) gave 10 g. 2,4,6-Me₃C₆H₂CH₂OEt, bp. 80-90°, and about 3 g. I. Addn. of the decanted Et₂O soln. (from the excess Mg) in the prepn. of durylmagnesium bromide (from 30.4 g. bromodurene, 16 g. EtBr, and 9 g. Mg) to 23 g. ClCH₂OMe in Et₂O and refluxing 6 hrs. gave no normal ether and chiefly (8 g.) product, bp 120-30°, free of OH or OMe groups, apparently RCH₂Cl (2,3,5,6-tetramethylbenzyl chloride) being formed

CA

10

exclusively; if the excess Mg is not removed and the Cl ether is added to the RMgX , there forms 2.1 g (10%) 1,2-didurylthane, m. 234-5° (from MePh). Addn. of 2,4,6-Me₃C₆H₂CH₂OMe (20.5 g.) in xylene to 2,4,6-Me₃C₆H₂MgBr (from 7 g. Mg and 50 g. RBr) in Et₂O, removal of the Et₂O, and refluxing 10 hrs. gave 20% dimesitylmethane, m. 132-3°, b₁ 154-6°; no ethane analog was detected. XI. Reaction of esters of formic acid with organomagnesium compounds. I. I. Lapkin and A. I. Golovkova. *Ibid.* 117-23.—The direction of reaction of ArMgX with EtO₂CH depends on the metallic impurities in Mg which affect only the slow reactions; CoCl_2 has a similar effect. The reaction of EtO₂CH with 2,4,6-Me₃C₆H₂MgBr made from relatively impure Mg (impurities unstated) has been described before (*C.A.* 35, 2479°); a similar reaction of 0.125 mole ester with 0.25 mole RMgX from a better grade of Mg gave 10.5 g. mixed dimesitylcarbinol and dimesitylmethane, b₁ 160-260° scpd. with petr. ether into the less sol. carbinol, m. 148-9° (4 g.), and 1 g. of the methane, m. 133-4°; repetition of the expt. with omission of strong heating or distn. gave 5 and 2.5 g., resp. When 2 mole-% CoCl_2 was added to the RMgX above, the usual procedure gave only the methane deriv., no carbinol being detected. Reaction of RMgX from 42 g. 3-bromocyclohexene with 7.5 g. EtO₂CH gave about 4 g. di-3-cymylmethane, b₁ 230-50°, m. 222°, and an unknown product, b₁ 200-30°. *o*-MeC₆H₄MgBr (0.25 mole) gave 7 g. di-*o*-tolylcarbinol, m. 119-20° (from petr. ether), and about 5 g. 1,1,2,2-tetra(*o*-tolyl)ethane, m. 253-4°; if the heating was extended 10 hrs. the yield of the latter was 14 g. If purer Mg is used, 42.8 g. *p*-MeC₆H₄Br, 6.5 g. Mg, and 9.3 g. EtO₂CH give 10.5 g. di-*p*-tolylcarbinol, m. 69-70°, 1.5 g. *p,p*-ditolyl, m. 119-20°, and 3.4 g. 1,1,2,2-tetra-*p*-tolyl-ethane, m. 276-7°; if CoCl_2 is added to the reaction mix., the main product is the carbinol and (MeC₆H₄)₂CH₂ does not form. *l*-C₆H₅MgBr gave di-*l*-naphthylcarbinol and a smaller amt. of bis(1-naphthylmethyl) ether, and CoCl_2 failed to affect the results. G. M. Kosolapoff

1957

LAPKIN, I.I.; LAPKINA, O.M.

Steric hindrance in organomagnesium reactions. XIV. Peculiar course of reaction between α -monochloro-substituted ethers and arylmagnesium halides. (MIRA 5:9)
Zhur. Obshchey Khim. 22, 1602-12 '52.
(CA 47 no.18:9293 '53)

1. A.M.Gor'kiy State Univ., Molotov.

✓ Reactions of halometal alcoholates. I. Reactions of
halomagnesium alcoholates of diacetylalcohols with esters
I. I. Lepkin et al. *Chem. Abstr.* 1957, 51, 12100
Zbr. Dikha. 1957, 1, 12100
Sp. 1 24, 2001
parts (by wt) of
ca. 40 Mg. The mixture was
heated with the ester for 2 hrs.
treated with H₂O. The product
was dried in a vacuum oven
2 g. Mg. was used
10 g. of ester
10 g. of product
10 g. of H₂O

EtMgBr there was similarly obtained pure to 100%
of the L. 142-47. It is isolated as a solid
with an isolated yield of 100% product.
The product is a solid
with a melting point of 142-47.
The product is a solid
with a melting point of 142-47.
The product is a solid
with a melting point of 142-47.

LAPKINA, O.M.
LAPKIN, I.I.; LAPKINA, O.M.

Reactions of metal-halide alcoholates. Part 1. Reactions of halide magnesium alcoholates of diarylcarbinols with esters. Zhur. ob.khim. 25 no.2:298-304 F '55. (MLRA 8:6)

1. Molotovskiy Gosudarstvennyy universitet.
(Alcoholates) (Esters)

LAPKINA, O.M.

LAPKIN, I.I.; LAPKINA, O.M.

Reaction of metal halide alcoholates. Part 3. Control of magnesium organic reactions. Zhur.ob.khim.25 no.5:947-950 My'55.
(MIRA 8:10)

1. Moskovskiy Gosudarstvennyy universitet
(Magnesium organic compounds)

LAPKINA O. M

79-2-25/64

AUTHORS: Lapkin, I. I. , Lapkina, O. M. , Rybakova, M. N.

TITLE: Reactions of Metal Halide Alcoholates (Reaktsii galoidmetallalkogolyatov) V. Mechanism of the Interaction of Magnesium Halide Carbinolates With Esters (V. Mekhanizm vzaimodeystviya galoidmagniykarbinolyatov so slozhnymi efirami)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 2, pp. 391 - 398 (USSR)

ABSTRACT: The authors began the present work with the aim of determining the number of orthosubstituents in which hydrocarbons of the type of diarylmethane form instead of haloidides. The investigations carried out with magnesium halide diarylcarbinolates with a gradual increase in the number of orthosubstituents showed that in case of a number of substituents smaller than four this reaction leads to the formation of diarylmethylhaloidides. It is assumed that the formation of diarylmethanes will take place in three secondary and tertiary radicals which are, however, more complicated than methyl. The problem was, however, not yet solved by the authors. Oxalic acid esters react with magnesium halide diarylcarbinolates analogous to formic acid esters. A deviation is only observed in the case of magnesium halide diarylcarbinolate with 4 occupied ortho-positions, as the carbinol is regenerated in the separation of the products of their interaction with diethyloxalate, water and

Card 1/3

79-2-25/64

Reactions of Metal Halide Alcoholates. V. Mechanism of the Interaction of Magnesium Halide Carbinolates With Esters

acid. In connection with the results of the present and earlier works the problem concerning the mechanism of the reaction of magnesium halide carbinolates with esters (references 1-3) rises. Its solution might contribute toward anticipating new forms of transformation of magnesium halide carbinolates as well as toward explanation of the nature of numerous anomalies which are observed in organic magnesium reactions. The occurrence of anomalies is the consequence of a side reaction between the initially formed magnesium halide alcoholates and esters. The authors found the conditions for the elimination of haloidides by means of interaction of magnesium halide diarylcarbinolates with esters. In this connection the yield of the haloidides is as well dependent on the nature of diarylcarbinolates as on the nature of the esters. Numerous tests for the investigation of the reaction of the magnesium halide phenolates and magnesium halide naphthalates with esters showed that the phenolates and naphthalates, in contrast to the alcoholates, have no interaction with esters. Summary: 1) The authors suggested the investigation of the reaction of magnesium halide diarylcarbinolates with esters. It was found that only the magnesium halide diarylcarbinolates with formic acid esters form diarylmethanes in

Card 2/3

79-2-25/64

Reactions of Metal Halide Alcoholates. V. Mechanism of the Interaction of Magnesium Halide Carbinolates With Esters

which all four ortho-positions are occupied. In the case of a smaller substitution these reactions lead to the formation of diarylmethylhaloidides. 2) It was shown in new examples that in the interaction with esters of malonic acid magnesium halide diarylcarbinolates are converted to diarylmethylethers. 3) It was found that magnesium bromide phenolates and magnesium bromide naphthalates do not react with esters of formic, oxalic, sulfuric and succinic acid in the case of equal molecular quantities under assumed reaction conditions. 4) The mechanism of the interaction of magnesium halide alcoholates and esters was investigated. There are 1 table, and 11 references, 7 of which are Slavic.

ASSOCIATION: State University, Perm' (Permskiy gosudarstvennyy universitet)

SUBMITTED: January 8, 1957

AVAILABLE: Library of Congress

Card 3/3

AUTHORS:

Lapkin, I. I., Lapkina, O. M.

79-28-4-25/60

TITLE:

Steric Hindrances in Organomagnesium Reactions
(Prostranstvennyye prepyatstviya pri magniyorganiches-
kikh reaktsiyakh).
XIX. The Synthesis of Esters of α -(4-Alkoxy-naphthyl-1)
Lactic Acids (Sintez slozhnykh efirov α -(4-alkoksinaf-
til-1)-molochnykh kislot)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 4,
pp. 957-960 (USSR)

ABSTRACT:

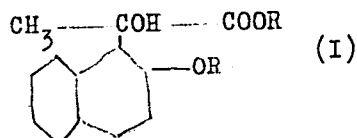
In the previous papers (References 1 and 2) it was shown that only the ketone group reacts with di-ortho-substituted arylmagnesium halides in the interaction of the esters of α -ketonic acids (being comparatively weak in comparison to oxalic acid (Reference 3)). The ester group does not even react at a considerable excess of organomagnesium compounds. It was also shown that the mixed organomagnesium compounds which are obtained from α -bromo- β -alkoxy-naphthalenes, and which as compounds are

Card 1/3

Steric Hindrances in Organomagnesium Reactions.
XIX. The Synthesis of Esters of α -(4-Alkoxy-naphthyl-1)
Lactic Acids

79-28-4-25/60

stereochemically almost equivalent to di-ortho-substituted arylmagnesium halides, only react with the ketone group. The organomagnesium compounds which are obtained from 1-bromo-4-alkoxy-naphthalenes are stereochemically analogous to mono-ortho-substituted arylmagnesium halides. For this reason they react identical to the latter in reactions with esters of α -ketonic acids (pyroacetic acid) (Reference 1), that is to say, they react with the more active ketone group. This circumstance can be utilized for a convenient production of the esters of α -(4-alkoxy-naphthyl-1) lactic acids, with the general formula (I).



This is confirmed by the experimental results given in a table.

Card 2/3

Steric Hindrances in Organomagnesium Reactions.

79-28-4-25/60

XIX. The Synthesis of Esters of α -(4-Alkoxy-naphthyl-1)

Lactic Acids

There are 1 table and 3 references, all of which are Soviet.

ASSOCIATION: Permskiy gosudarstvennyy universitet (Perm' State University)

SUBMITTED: March 2, 1957

Card 3/3

KORSHUNOV, B.G.; LAPKINA, Ye.D.

The system $\text{MoCl}_5 - \text{AlCl}_3 - \text{NaCl}$. Zhur. neorg. khim. 8
no.11:2585-2588 N '63. (MIRA 17:1)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii
imeni Lomonosova.

LAPKO, A.; YURKO, I.

Long runs on methane between repairs. Avt.transp. 32 no.3:38
Nr 154. (MLRA 7:8)

(Automobiles--Engines (Compressed gas))

DELONE, Boris Nikolayevich; LAPKO, A.F., redaktor; AKHIANOV, S.N.,
tekhnicheskii redaktor

[Elementary proof of the noncontradictoriness of Lobachevskii
planimetry] Elementarnoe dokazatel'stvo neprotivorechivosti
planimetrii Lobachevskogo; (k stoletiiu so dnia smerti Lobachev-
skogo). Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 139 p.
(Geometry, Non-Euclidean) (MIRA 9:11)

LAPKO, A.F.
KHOVANSKIY, Aleksey Nikolayevich; LAPKO, A.F., redaktor; TUMARKINA,
N.A., tekhnicheskiy redaktor

[Application of continued fractions and their generalizations
to problems of approximate analysis] Prilozhenie tsopnykh
drobei i ikh obobshchenii k voprosam priblizhennogo analiza.
Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 203 p.

(Fractions, Continued)

(MLRA 10:4)

LYUSTERNIK, Lazar' Aronovich; LAPKO, A.P., redaktor; NEGRIMOVSKAYA, P.A.,
tekhnicheskii redaktor

[Convex figures and polyhedra] Vypuklye figury i mnogogranniki.
Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 212 p.
(Polyhedra)
(MLRA 10:1)

~~LAPKO, A.F.~~
NORDEN, A. P., redaktor; ~~LAPKO, A.F.~~ redaktor; MURATOVA, N.Ya., tekhnicheskii redaktor.

[Foundations of geometry; a collection of classic works on Lobachevskii's geometry and the development of his ideas] Osnovaniakh geometrii; sbornik klassicheskikh rabot po geometrii Lobachevskogo i razvitiu ee idei. Red.i vstup.stat'ia. A.P. Nordena. Moskva, Gos. izd-vo tekhniko-teoret.lit-ry, 1956. 527 p. (MIRA 10:5)
(Geometry, Non-Euclidean)

LAPKO, A.F.
ARGUNOV, Boris Ivanovich; SKORNYAKOV, Lev Anatol'yevich; LAPKO, A.F., red.;
AKHLAMOV, S.N., tekn.red.

[Configuration theorems] Konfiguratsionnye teoremy. Moskva, Gos.
izd-vo tekhniko-teoret. lit-ry, 1957. 37 p. (Populiarnye lektsii po
matematike, no.24). (MIRA 11:2)
(Configurations)

LAPKO, A.F.

KHRENOV, Leonid Sergeyevich; LAPKO, A.F., red.; BRUDNO, K.F., tekhn.red.

[Small calculating machines; a concise manual] *Malye vychislitel'-nye mashiny; kratkoe spravochnoe rukovodstvo.* Moskva, Gos.izd-vo tekhniko-teoret. lit-ry, 1957. 154 p. (MIRA 11:2)
(Calculating machines)

LAPKO, A.F.

SIMONOV, Nikolay Ivanovich; ~~LAPKO, A.F.~~, redaktor; YERMAKOVA, Ye.A.,
tekhnicheskiy redaktor

[Euler's applied methods of analysis] Prikladnye metody analiza u
Eilera. Moskva, Gos.izd-vo tekhniko-teoret. lit-ry, 1957. 167 p.
(Differential equations) (MIRA 10:10)
(Calculus integral)

LAPKO, A. F.

HEMYTSKIY, Viktor Vladimirovich, inzhener; SHUDSKAYA, Mariya Ivanovna;
CHERKASOV, Andrey Nikolayevich; LAPKO, A. F., redaktor; GAVRILOV,
S. S., tekhnicheskii redaktor.

[A course in mathematical analysis] Kurs matematicheskogo analiza.
Pod obshchei red. V. Nemytskogo. Izd. 3-e, perer. Moskva, Gos. izd-vo
tekhniko-teoret. lit-ry. Vol. 1. 1957. 486 p. (MLRA 1016)
(Calculus)

LAPKO, A. F.

AUTHOR: LAPKO, A.F., LYUSTERNIK, L.A.

42-6-3/17

TITLE: Mathematical Congresses and Conferences in the USSR (Matematicheskiye s"yezdy i konferentsii v SSSR)

PERIODICAL: Uspekhi Matematicheskikh Nauk, 1957, Vol.12, Nr.6, pp.47-130 (USSR)

ABSTRACT: The authors give a survey on mathematical congresses which have taken place in the Soviet Union during the last 40 years. The paper consists of ten paragraphs. §1 Introduction and general survey; §2 Russian Mathematical Congress, Moscow April 27-May 4, 1927; §3 First Union Congress of Mathematicians, Kharkov 1930; §4 Second Union Congress, June 24-30, 1934; §5 First international conference on tensorial differential geometry, Moscow, May 17-23, 1934 and first international topological conference, Moscow 1935; §6 The attempt of forming a union partnership of mathematicians and the periodical "Uspekhi matematicheskikh nauk" during the period before the war; §7 The Congresses between 1935-1941; §8 The years of war and after the war 1941-1949; §9 The conferences of the years since 1950; §10 Third Union Congress of Mathematicians June 25-July 4, 1956.
62 Soviet references are quoted.

AVAILABLE: Library of Congress
Card 1/1

USPENSKIY, Vladimir Andreyevich,; LAPKO, A.F., red.; KRYUCHKOVA, V.N., tekhn.red.

[Application of mechanics to mathematics] Nekotorye prilozhenia
mekhaniki k matematike. Moskva, Gos. izd-vo fiziko-matematicheskoi
lit-ry, 1958. 47 p. (Populiarnye lektsii po matematike, no. 27).
(MIRA 11:11)

(Mathematics)
(Mechanics)

AUTHOR: LAPKO, A. F., LYUSTERNIK, L. A.

42-1-12/13

TITLE: Letter to the Editor (Pis'mo v redaktsiyu)

PERIODICAL: Uspekhi Matematicheskikh Nauk, 1958, Vol. 13, Nr. 1, p. 239 (USSR)

ABSTRACT: This paper contains corrections to the publication on
Mathematical Congresses in the Soviet Union (Uspekhi
Matematicheskikh Nauk, 1957, Vol. 12, Nr. 6, pp. 47-130).

AVAILABLE: Library of Congress
Card 1/1 1. Mathematics-Errors

AUTHORS: Lapko, A.F., and Lyusternik, L.A. SOV/42-13-5-2/15

TITLE: Mathematical Congresses and Conferences in the USSR (Matematicheskiye s"yezdy i konferentsii v SSSR)

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 5, pp 121-166 (USSR)

ABSTRACT: One year ago, on the occasion of the 40th anniversary of the revolution in 1917, the authors [Ref 1] published a survey on the congresses which have taken place in the Soviet Union. Numerous addresses of readers caused the authors to publish the present supplementary report. The paper doubtless valuable for the history of Soviet mathematics, has also a certain interest for the western reader: From the resolutions passed on several congresses appears clearly the effective leading part of the Academy of Sciences which pursues a systematic plan of research projects and which incessantly cares about the performance of them.
There are 90 Soviet references.

Card 1/1

SOV/42-13-5-10/15

AUTHOR: Lapko, A.F.

TITLE: Conference on Computer Mathematics and on the Application of Computer Techniques (Soveshchaniye po vychislitel'noy matematike i primeneniyu sredstv vychislitel'noy tekhniki)

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 5, pp 211-214 (USSR)

ABSTRACT: The conference organized by the AS AzerSSR, the Computing Center of the AS USSR and the Institute of Automation and Telemechanics AS USSR, took place in Baku on February 5-8, 1958, with the participation of the representatives of 7 Soviet republics. The work of the Conference was divided into two sections, one relating to computer mathematics and the other to computer techniques. The fifty papers submitted in both sections and their authors are listed.

Card 1/1

KHRENOV, Leonid Sergeyevich; LAPKO, A.P., red.; GAVRILOV, S.S.,
tekhn.red.

[Small calculating machines; brief reference manual]
Malye vychislitel'nye mashiny; kratkoe spravochnoe
rukovedstvo. Izd.2., dop. Moskva, Gos.isd-vo fiziko-
matem.lit-ry, 1959. 183 p. (MIRA 12:7)
(Calculating machines)

BALK, Mark Benevich; LAPKO, A.F., red.; KRYUCHKOVA, V.M., tekhn.red.

[Geometrical applications of the concept of the center of gravity] Geometricheskie prilozhenia poniatia o tsentre tiazhesti. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959.
230 p. (Biblioteka matematicheskogo krushka, no.9) (MIRA 12:7)
(Center of mass)

KON-POSSEN, Stefan Emmanuilovich; YEFIMOV, N.V., red.; LAPKO, A.F.,
red.; MURASHOVA, N.Ya., tekhn.red.

[Some general problems in differential geometry] Nekotorye
voprosy differentsial'noi geometrii v tselom. Pod red. N.V.
Efimova. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 303 p.
(MIRA 13:2)

(Geometry, Differential)

SHIROKOV, Petr Alekseyevich, prof. [deceased]; SHIROKOV, Aleksandr Petrovich; NORDEN, A.P., red.; LAPKO, A.F., red.; YERMAKOVA, Ye.A., tekhn.red.

[Affine differential geometry] Affinnaia differentsial'naia geometriia. Pod red. A.P.Nordena. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 319 p. (MIRA 12:8)

1. Kazanskiy universitet (for P.A.Shirokov).
(Geometry, Differential)

SMIRNOV, Nikolay Vasil'yevich; DUNIN-BARKOVSKIY, Igor' Valerianovich;
LAPKO, A.F., red.; KRYUGHKOVA, V.N., tekhn.red.

[Concise course on mathematical statistics for technical
applications] Kratkii kurs matematicheskoi statistiki dlia
tekhnicheskikh prilozhenii. Moskva, Gos.izd-vo fiziko-matem.
lit-ry, 1959. 436 p. (MIRA 13:2)
(Mathematical statistics)

KUROSH, A.G., glavnyy red.; ~~MITYUTSKOV~~, V.I., red.; BOLTYANSKIY, V.G.,
red.; DYNKIN, Ye.B., red.; SHILOV, G.Ye., red.; YUSHKEVICH,
A.P., red.; LAPKO, A.F., red.; AKHLAMOV, S.N., tekhn.red.

[Mathematics in the U.S.S.R. during the forty years from 1917
to 1957] Matematika v SSSR za sorok let, 1917-1957. V dvukh
tomakh. Moskva, Gos.izd-vo fiziko-matem.lit-ry. Vol.1. [Survey
articles] Obzornye stat'i. 1959. 1002 p. (MIRA 12:5)
(Mathematics)

16(1)

AUTHORS: Lapko, A.F., and Lyusternik, L.A.

SOV/42-14-2-19/19

TITLE: Correction

PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr. 2, p 262 (USSR)

ABSTRACT: In the paper "Mathematical Congresses and Conferences in the USSR" in Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 5 the lecture of L.A. Aksent'yev is not mentioned.

Card 1/1

USCOMM-DC-61,422

16(1)

AUTHOR: Lapko, A.F.

SOV/42-14-4-26/27

TITLE: Scientific Technical Conference in the MVTU

PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 4, pp 245-246(USSR)

ABSTRACT: On March 25-26, 1959 a conference of the Chairs of the Moscow High Schools took place in the Moscow Higher Technical School imeni N.E.Bauman. In the mechanical-mathematical section (presidency: V.V.Dobronravov) lectures were given by I.N.Veselovskiy, Yu.Ye.Zakharov, K.A.Zgorzhei'skiy, V.V.Ignatenko, Ya.G.Kovalev, P.V.Orekhov, I.A.Panichkin, S.A.Frolov, and R.Ya.Shostak.

Card 1/1

MARGULIS, Boris Yevseyevich; ~~LAPKO, A.F.~~, red.; YERMAKOVA, Ye.A.,
tekhn.red.

[Systems of linear equations] Sistemy lineinykh uravnenii.
Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 94 p. (Populiar-
nye lektsii po matematike, no.34). (MIRA 14:2)
(Linear equations)

VOLYNSKIY, Boris Abramovich; BUKHMAN, Vadim Yevgen'yevich; LYUSTERNIK,
L.A., red.; LAPKO, A.P., red.; TUMARKINA, N.A., tekhn.red.

[Models for solving boundary problems] Modeli dlia reshenia
kraevykh zadach. Pod red. L.A.Lyusternika. Moskva, Gos.izd-vo
fiziko-matem.lit-ry, 1960. 451 p. (MIRA 13:7)

1. Chlen-korrespondent AN SSSR (for Lyusternik).
(Boundary value problems)
(Electromechanical analogies)

KAGAN, Veniamin Fedorovich [1869-1953]; SHESTOPAL, G.A [translator]; BRON-SHTEYN, I.N. [translator]; LOPSHITS, A.M., red.; RASHEVSKIY, P.K., red.; LAPKO, A.F., red.; KRYUCHKOVA, V.N., tekhn. red.

[Subprojective spaces] Subproektivnye prostranstva. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 218 p. (MIRA 14:6)
(Projection) (Spaces, Generalized)

DANILOV, V.L.; IVANOVA, A.N.; ISAKOVA, Ya.K.; LYUSTERNIK, L.A.; SALEKHOV,
G.S.; KHOVANSKIY, A.N.; TSLAF, L.Ya.; YANPOL'SKIY, A.R., dots.; LAPKO,
A.F., red.; KRYUCHKOVA, V.N., tekhn. red.

[Mathematical analysis; functions, limits, series, continued frac-
tions] Matematicheskii analiz; funktsii, predely, riady, tsepnye
drobi. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 439 p.

(MIRA 14:8)

1. Chlen-korrespondent AN SSSR (for Lyusternik).
(Mathematical analysis)

RUMSHISKIY, Lev Zimonovich; LAPKO, A.F., red.; KRYUCHKOVA, V.N., tekhn.
red.

[Laboratory computation manual for a course of higher
mathematics for institutions of higher learning] Vychi-
slitel'nyi laboratornyi praktikum po kursu vysshei matematiki
dlia vtuzov. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 137 p
(Mathematics—Study and teaching) (MIRA 14:9)

DITKIN, Vitaliy Arsen'yevich; PRUDNIKOV, Anatoliy Platonovich; LYUSTERNIK, L.A., red.; YANPOL'SKIY, A.R., red.; LAPKO, A.F., red.; BRUDNO, K.F., tekhn. red.

[Integral transformations and operational calculus] Integral'nye preobrazovaniia i operatsionnoe ischislenie. Pod obsheei red. L.A. Liusternika i A.R. Ianpol'skogo. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 523 p. (MIRA 14:10)
(Transformations (Mathematics)) (Calculus, Operational)

ARAMANOVICH, I.G.; GUTER, R.S.; LYUSTERNIK, L.A.; RAUKHVARGER, I.L.;
SKANAVI, M.I.; YANPOL'SKIY, A.R. Primali uchastiye:
TRENOGIN, V.A.; BITYUTSKOV, V.I.; LAPKO, A.F., red.;
KOLESNIKOVA, A.P., tekhn. red.

[Mathematical analysis; differentiation and integration] Ma-
tematicheskii analiz; differentsirovanie i integrirovanie. [By]
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AUTHOR: Reutskiy, V. A.; Lapko, G. A.

TITLE: Simulation of the motion of a rigid rotor²⁴ on the "Ural-I" digital computer

SOURCE: Ref. zh. Mekhanika, Abs. 12A153

REF SOURCE: Sb. Primeneniye matem. metodov i vychisl. tekhn. v gorn. dele. M., Nedra, 1965, 30-34

TOPIC TAGS: gyroscope system, computer application, digital computer/ Ural-I digital computer

ABSTRACT: The authors consider the motion of a rigid rotor with securely fastened discs of large diameter. The shaft is supported by two elastically deformed bearings. The state of balance of the machine is analyzed as a function of its dynamic parameters. The mathematical relationships are analyzed on the "Ural-I" electronic computer. [Translation of abstract]

SUB CODE: 17, 09

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AID F - 2270

Subject : USSR/Chemistry

Card 1/1 Pub. 152 - 15/19

Authors : Salchinkin, A. P., L. B. Lapkova and A. P. Arestenko

Title : Oxidation of furfural to succinic acid

Periodical: Zhur. prikl. khim., 28, no.2, 216-219, 1955

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Submitted : J1 14, 1953

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