

CZECHOSLOVAKIA

UDC 614.715(:541.182.2)-07

POLYDOROVA, Marie; Institute of Physical Chemistry, Czechoslovak Academy of Sciences (Ustav Fysikalni Chemie CSAV), Prague.

"Continuous Measurement of Aerosols in Air."

Prague, Pracovni Lekarstvi, Vol 18, No 10, Dec 66, pp 445-447

Abstract [Author's English summary modified]: An instrument using a membrane filter for the collection of the aerosols and photometric evaluation of the collected sample is described. A tape of the membrane filter passes continuously over a slot which serves for the collection of the aerosol and for the recording of the amount of light passing through the slot and the filter. Both values are continuously recorded. Uses of the instruments are discussed. 4 Figures, 12 Western, 1 Czech reference. (Manuscript received 1 Dec 65).

1/1

"Electron microscopic examination of highly radioactive fallout particles" by T.Manuro, T.Seiyama, T.Matsunami, A.Fujita, K. Yoshikawa. Reviewed by M.Polydorova. Jaderna energie 10 no. 3:104 Mr '64.

L 31571-00

ACC NR: AP6022959

SOURCE CODE: CZ/0008/65/000/009/1066/1068

AUTHOR: Polydorova, Marie; Spurny, Kvetoslav; Paska, Dalibor; Benak, Frantisek 23

ORG: Institute of Physical Chemistry, CSAV, Prague (Ustav fysikalni chemie CSAV);  
[Paska, Benak] Developmental Workshop CSAV (Vyvojovedilny CSAV) B

TITLE: Use of a membrane filter ribbon for continuous collecting of aerosol samples 6

SOURCE: Chemicke listy, no. 9, 1965, 1066-1068

TOPIC TAGS: aerosol, aerosol chemistry, gas filter

ABSTRACT: Improved apparatus for continuous sampling of aerosols is described. The previous manner of sampling was in a stepwise way. The samples are collected on belts made of paper or plastic and evaluated on the basis of light scattering caused by the solids collected on the filter. The authors designed a special membrane filter which is produced by the Czech firm Synthesia; this filter may be used for continuous measurements lasting 24 hours. The apparatus is similar to the AISI sampler made by the Research Appliance Co. of Allison Park, Pa. Orig. art. has: 2 figures. [JPRS]

SUB CODE: 07 / SUBM DATE: 25Jul64 / ORIG REF: 001 / OTH REF: 007

Card 1/1 BLG

0915 1043

POLYDOROVA, M.

"Hot" particles in the atmospheric aerosol. Jaderna energie  
6 no.4:140 Ap '60.

POLYDOROVA, M.

Fallout particles of high specific activity. Jaderna energie  
6 no.5:176 My '60.

SPURNY, K.; POLYDOROVA, M.

Automatic aerosol sampler. Prac. lek. 14 no.7:337-339 S '62.

1. Ustav fyzikalni chemie CSAV, Praha.  
(AIR POLLUTION) (DUST)

CZECHOSLOVAKIA/Chemical Technology. Chemical Products H  
and Their Uses. Part I. Control and  
Measurement Devices. Automatic Regula-  
tion.

Abs Jour : Ref Zhur-Khimiya, No 15, 1953, 50668

Author : Spurny, Kvetoslav; Polydorova, Marie  
Inst : -  
Title : Automatic Setups for a Continuous  
Separation of Air Samples.

Orig Pub : Pracovni Lekar, 1957, 9, No 2, 146-149

Abstract : An automatic sample separator for dust,  
gases and vapors is activated by an elec-  
trical motor. Air samples were automati-  
cally taken at fixed time intervals (1  
hour). The apparatus may be used in con-

Card : 1/2

SPURNY, K.; POLYDOROVA, M.

Analytic methods for determining aerosols by using the membrane ultrafilters. Coll Cz Chem 26 no.4:921-931 Ap '61.

1. Institut für physikalische Chemie, Tschechoslowakische Akademie der Wissenschaften, Prag.

(Aerosols) (Filters and filtration)

HAVLICEK, V.; POLYDOROVA, M.; SPURNY, K.

Analytic methods for determining aerosols by using the membrane ultrafilters; electrical rigidity of membrane ultrafilters. Coll Cz Chem 26 no.4:932-936 Ap '61.

1. Institut für physikalische Chemie, Tschechoslowakische Akademie der Wissenschaften, Prag.

(Aerosols) (Filters and filtration)



SPURNY, K.; POLYDOROVA, M.; STARCUK, Z.

Analytic filters made of organic microfibers and their use in determining aerosol and dust concentrations. Pracovni lek. 14 no.8:369-375 0 '62.

1. Ustav fyzikalni chemie CSAV, Praha Ustav jadernych vyzkumy CSAV, Praha.

(DUST)

(AEROSOLS)

(AIR POLLUTION RADIOACTIVE)

(AIR POLLUTION)

POLYDOROVA, M.

Distribution of artificial radioactivity in the dust and rain water vapors. Jaderna energie 6 no.3:103 Mr '60.

POLYDOROVA, M.

Variations of the stratospheric component of the radioactive fallout during a year. Jaderna energie 6 no.11:382 N '60.

POLYDOROVA, M.

Gamma radiation from deposited fallout. Jaderna energie 6  
no.10:357 0 '60.

SPURNY, Kvetoslav; POLYDOROVA, Marie

Filtering properties of certain fibrous materials in the analysis  
for the determination of solid aerosols. Pracovni lek. 10 no.1:  
17-25 Mar 58.

1. Ustav fysikalni chemie CSAV, Praha.  
(AEROSOLS, determination,  
fibrous filtration material (Cz))

L 47390-66 EWT(m)/EWP(j)/T IJP(c) RM

ACC NR: AP6030735 (A,N) SOURCE CODE: UR/0021/66/000/008/1031/1033

AUTHOR: Polyetukha, V. V. -- Poletukha, V. V.; Solomko, V. P.; Vilens'ka, M. R. -- Vilenskaya, M. R.; Uskov, I. O. -- Uksov, I. A.; Yurzhenko, T. I.

ORG: Kiyev State University (Kiyivs'kiy derzhavniy universytet)

TITLE: Grafting of polymethyl methacrylate and polystyrene on kaolin modified by organic peroxide compounds

SOURCE: AN UkrRSR. Dopovidi, no. 8, 1966, 1031-1033

TOPIC TAGS: filler modification, vinyl monomer polymerization, polymethylmetacrylate, grafting

ABSTRACT: Fillers modified by compounds firmly bound to the filler's surface and capable of initiating the polymerization of vinyl monomers are investigated. For this purpose, kaolin was treated with organic peroxide compounds and then brought in contact with refined styrene and methyl methacrylate. Considerable quantities of unextracted polystyrene and very large amounts of poly(methyl methacrylate) were formed during polymerization. This is explained by the

18  
B

Card 1/2

Card 2/2

POL'YEVKO, V.D., inzhener.

Longitudinal cross bending of elastic prismatic bars. Trudy TSNIS  
no.16:124-144 '55. (MLRA 8:11)  
(Elastic rods and wires)

ПОЛ'ЯВКО, В.П., канд.техн.наук

Work of railroad bridges under brake loading. Trudy TSNIIS  
no.46:5-30 '62. (MIRA 15:9)  
(Railroad bridges)



POL'YEVKO, V.P., kand.tokhn.nauk; MEL'NIKOV, Yu.L., kand.tokhn.nauk

Functioning of the joints of precast reinforced concrete spans. Bet. i zhel.-bet. 8 no.10:456-458 0 '62.

(MIRA 15:11)

(Building—Materials) (Railroad bridges)

KOLOKOLOV, N.M., inzh.; MIKHIN, N.I., inzh.; PROKOPOVICH, A.G., kand.  
tekhn.nauk; POL'YEVKO, V.P., kand.tekhn.nauk

Study of a prestressed beam with highstrength reinforcing  
bars. Transp. stroi. ll no.5:40-42 My '61. (MIRA 14:6)  
(Girders) (Bridges, Concrete) (Concrete reinforcement)

KAZEY, I.I., kand.tekhn.nauk; POL'YEVKO, V.P., kand.tekhn.nauk

Longitudinal stresses arising in reinforced concrete shells  
during vibration sinking. Trudy TSNIS no.45:73-91 '62.  
(MIRA 15:9)

(Bridges--Foundations and piers)  
(Underground concrete construction)

MITROFANOV, Yu.M.; POL'YEVKO, V.P.; KRESTNIKOV, I.L.

Laying span structures by pushing without temporary supports.  
Avt.dor. 25 no.7:8-10 JI '62. (MIRA 15:8)  
(Bridge construction)

POL'YEVKO, V. P.

KHLEBNIKOV, Ye.L. professor; ANDREYEV, O.V., kandidat tekhnicheskikh nauk; BEGAM, L.G., kandidat tekhnicheskikh nauk; BERG, O.Ye., kandidat tekhnicheskikh nauk; GAMAYUNOV, A.I., kandidat tekhnicheskikh nauk; DUCHINSKIY, B.M., kandidat tekhnicheskikh nauk; KAZEY, I.I., kandidat tekhnicheskikh nauk; DEKOKHIN, B.F., kandidat tekhnicheskikh nauk; LUGA, A.A., kandidat tekhnicheskikh nauk; IYALIN, N.B., kandidat tekhnicheskikh nauk; MEL'NIKOV, Yu.L., kandidat tekhnicheskikh nauk; POL'YEVKO, V.P., kandidat tekhnicheskikh nauk; PROKOPOVICH, X. G., kandidat tekhnicheskikh nauk; STRELETSKIY, N.N., kandidat tekhnicheskikh nauk; TYULENEV, Ye.A., kandidat tekhnicheskikh nauk; KHROMETS, Yu.N., kandidat tekhnicheskikh nauk; SHELESTENKO, L.P., kandidat tekhnicheskikh nauk; SHPIRO, G.S., kandidat tekhnicheskikh nauk; YAROSHENKO, V.A., kandidat tekhnicheskikh nauk; ZELEVICH, P.M., inzhener; CHEGO-DATEV, N.N.; BOBROVA, Ye.N., tekhnicheskiiy redaktor.

[Technical specifications for designing bridges and pipes for railroads of a normal gauge (TUPM-56). Effective July 1, 1957 by order of Ministry of Means of Communication and the Ministry of Transportation Construction, September 15, 1956] Tekhnicheskie uslovia proektirovaniya mostov i trub na shozelnykh dorogakh normal'noi kolei (TUPM-56). Vvedeny v kachestve vremennykh s 1 iulia 1957 g. prikazom Ministerstva putei soobshcheniya i Ministerstva transportnogo stroitel'stva of 15 sentyabrya 1956 g. No.250/TsZ/213. Moskva, Gos.transp.zhel-dor.isd-vo, 1957. (MLRA 10:5)  
221 p.

1. Russia (1923- U.S.S.R.), Ministerstvo putey soobshcheniya.  
(Railroad bridges--Design)

LESOKHIN, B.F.; MEL'NIKOV, Yu.L.; POL'YEVSKO, V.P.; KHROMETS, Yu.N.;  
KAZNY, I.I., kand.tekhn.nauk, red.; GOLOVANOV, A.L., red.;  
BOBROVA, Ye.N., tekhn.red.

[Metal bridges; testing the performance of metal spans in  
currently used railroad bridges] Metallicheskie mosty;  
issledovanie raboty metallicheskikh proletrykh stroenii na  
ekspluatiruemykh mostakh. Moskva, Gos. transp. zhel.dor.izd-  
vo, 1959. 186 p. (Babushkin. Vsesoiuznyi nauchno-issledovatel'-  
skii institut transportnogo stroitel'stva. Trudy, no.29)  
(MIRA 12:8)

(Railroad bridges--Testing)

POL'YEVKO, V.P., kand.tekhn.nauk; MOYZHES, L.B., inzh.

Characteristics of the performance of spans without  
stiffening ribs and diaphragms. Transp.stroi. 14  
no.12:42-43 D '64. (MIRA 19:1)

POLYGALINA, G.V.

Continuous method for the production of ammonium carbonate with  
the use of fermentation carbon dioxide. Trudy TSHIISP no.12:  
72-78 '62. (MIRA 17:3)



RUKHLYADEVA, A.P.; POLYGALINA, G.V.; BAULINA, E.A.; KRETOV, V.F.

Automatic method for determining the concentration of grain and potato mash. *Ferm. i spirt. prom.* 30 no.3:25-29 '64.

(MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fermentnoy i spirtovoy promyshlennosti (for Rukhlyadeva, Polygalina).
2. Vsesoyuznyy nauchno-issledovatel'skiy eksperimental'no-konstruktorskiy institut prodovol'stvennogo mashinostroyeniya (for Baulina, Kretov).

RUKHLYADEVA, A.P.; POLYGALINA, G.V.; SEMIKINA, L.I.

Vitamin and acid content of grain and potato vinasse. Trudy  
TSNIISP no.12:66-72 '62. (MIRA 17:3)

POLYGALOV, N.

Supernumerary rifle club. Voен.znan.31 no.6:6 Je'55. (MLRA 8:11)

1. Instruktor respublikanskogo komiteta Dobrovol'nogo obshchestva  
sodeystviya armii, aviatsii i flotu SSSR, Kazakhskaya SSR  
(Kazakhstan--Shooting)

POLYIK, E.

Determination of light traces in natural water by spectrum analysis.

p. 297. (MAGYAR KEMIAI FOLYOIRAT) Vol. 63, no. 10, <sup>Nov</sup> Oct. 1957  
Budapest, Hungary

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,  
March 1958

POLYIK, E.

3

✓ 29. Separation of germanium(IV) by paper chromatography. Z. Nagy, Is. Polyk. Magyar Kemiai Folyirat. Vol. 61, 1955, No. 9, pp. 248-249, 1 fig., 2 tabs.

2

Chem

Samples containing 5 to 10  $\mu\text{g}$  of germanium(IV) and 50 to 100  $\mu\text{g}$  of iron(III) were placed on 12 cm wide filter paper strips (Macherey-Nagel No. 214) and by employing the unidimensional ascending technique were developed at 17 to 19  $^{\circ}\text{C}$  with a chloroform-ethanol-concentrated hydrochloric acid (17:7:1) solvent mixture. After development the strips were dried at 60 to 70  $^{\circ}\text{C}$  and sprayed with a 0.3% ethanolic morin solution. Germanium appeared on the paper in the form of yellow spots which were fluorescent in ultraviolet light. The identification limit of the method was 0.1  $\mu\text{g}$  of germanium. Running a solution of known germanium content simultaneously with the unknown sample the germanium content of the latter could be approximated by comparing the area and colour intensity of the spots. Foreign ions did not interfere with the colour reaction nor with the determination.

PM

NAGY, Zoltan, dr.; PORCSALMY, Ilona, dr.; ANDRASSY, Katalin, dr.;  
DEZSO, Istvan; KOVACS, Edit; POLYIK, Edit

Chemical analysis of the Hajduszoboszlo hot springs. Hidrologiai  
kozlony 40 no.4:300-303 Ag '60.

1. Debreceni Orvostudományi Egyetem Orvosi Vegytani Intézete.

NAGY, Zoltan; N.POLYIK, Edit

Detection of trace elements in Hungarian waters. Hidrologiai  
Kozlony 37 no.2:166-167 \*57.

1. Debreceni Orvostudományi Egyetem Orvosi Vegytani Intezete.  
Igazgato: Dr. Straub Janos egyetemi tanar.

NAGY, Zoltan; N.POLYIK, Edit.

Fluorometric detection of aluminum traces and their quick,  
informative determination in natural waters. Hidrologiai  
kozlony 39 no.3: 243-244 Je'59.



BOT, G.; KOVACS, Edit F.; ANDRASSY, Katalin O.; POLYIK, Edit N.

Protein enzyme synthesis in embryonic tissue in vivo. II Phosphorylase and phosphoglucomutase formation in the musculature of chick embryos. Acta physiol.hung. 17 no.4:383-389 '60.

1. Chemisches Institut der Medizinischen Universität, Debrecen.  
(MUSCLES metab)  
(PHOSPHORYLASES metab)  
(MUTASES metab)

BOT, Gyorgy; O. ANDRASSY, Katalin; N. POLYIK, Edit

Activity of glycolytic enzymes after death. Kiserl. orvostud. 13  
no.6:592-596 D '61.

1. Debreceni Orvostudományi Egyetem Orvosi Vegytani Intezete.

(CARBOHYDRASES) (CADAVER)

POLYIK, E.; HAGY, Z.

Data on the accuracy improvement of the intensith measurement carried out by a logarithm sector used in spectrum analysis. p. 119.

MAGYAR KEMIKUSOK LAPJA. (Magyar Kemikusok Egyesulete) Budapest, Hungary  
Vol. 14, no. 2/3, Feb./Mar. 1959.

Monthly list of East European Accessions (REAL), LC, Vol. 8, No. 8,  
August 1959.  
Uncla.

POLYIK, E.; NAGY, Z.

Fluorometric detection and quick informative determination of aluminum traces  
in natural waters. p.243

FOLDRAJZI ERTESITO. Budapest, Hungary. Vol. 39, no. 3, June 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959  
Uncl.

POLYIK, N.

Minor elements in Hungarian waters.

P. 166. (Hidrological Közlemény. Hydrological Journal. Vol. 37, no. 2, 1957  
Budapest, Hungary.)

Monthly Index of East European Accessions (MEAI) LC. Vol. 7, no. 2,  
February 1958

POLYIENSKIY, N.G.

Using microorganisms in chemical analysis. Priroda 45 no.11:83-84  
N '56. (MLRA 9:11)

1. Daugavpilskiy pedagogicheskiy institut.  
(Chemistry, Analytical) (Bacteria)

L 31907-66 EWT(d)/FSS-2/EWT(1)/EEC(k)-2/EWP(c) IJP(c) BC

ACC NR: AT5020333

SOURCE CODE: UR/2535/65/000/161/0016/0028

AUTHOR: Polykayev, I. I. (Candidate of technical sciences)

ORG: none\*

44  
B+1

TITLE: On the relative equilibrium of a physical pendulum in the general case of motion of its axis of rotation. 1. Supplementary acceleration of a physical pendulum

SOURCE: \*Moscow. Aviatsionnyy institut. Trudy, no. 161, 1965. Sistemy oriyentatsii i navedeniya letatel'nykh apparatov (Aircraft orientation and guidance systems); sbornik statey, 16-28

TOPIC TAGS: pendulum motion, acceleration effect, gravitation field

ABSTRACT: A system of equations is developed to satisfy a certain set of initial conditions for the system in figure 1. Under these conditions the z-axis of the dynamic symmetry of the pendulum coincides with the direction of the geocentric vector of the earth's sphere. Two particular cases are considered: (1) The apex of the trihedron  $\xi\eta\zeta$  moves on the surface of an immobile sphere with radius  $R$ , which is concentric with the earth's sphere; axes  $\xi$  and  $\eta$ , which are tangential to the sphere's surface, may arbitrarily rotate. (2) Trihedron  $\xi\eta\zeta$  is immobile with respect to the earth's sphere; axes  $\xi$  and  $\eta$  are in a plane which is perpendicular to the geocentric vector, and are also immobile with respect to the earth's sphere. Orig. art. has: 35 formulas, 1 figure.

UDC: 681.8.034.2(04)

Card 1/2

Card 2/2

*POLYKHOVSKIY, M.D.*

CHERKASSKIY, Yevsey Samuilovich, prof. doktor veterinarnykh nauk;  
POLYKHOVSKIY, M.D., red.; TROFIMOV, A., tekhn.red.

[Plague in carnivores] Chuma plotoiadnykh. Moskva, Izd-vo TSentro-  
soiuza, 1957. 289 p. (MIRA 11:5)  
(Distemper)



POLYKOV, I

F

N/5  
755.36  
.77

Plan-grafik ritmichnoy raboty stantsiy i pod'ezdnykh putey  
(Graph of the coordinated operation of stations and sidings)  
Moskva, Transzheldorizdat, 1952.  
76 p. diagrs., tables.

POLYKOV, I. M.

"Modern Antidarwinism" (p. 140) by Polykov, I. M.

SO: Advances in Modern Biology, (Uspekhi Sovremennoi Biologie) Vol. XIII, No. 1, 1940

S/079/60/030/04/47/080  
B001/B002

**AUTHORS:** Zimina, K. I., Polykova, A. A., Khmel'nitskiy, R. A.,  
Obolentsev, R. D.

**TITLE:** Mass-spectrometric Investigation of Some Homologs of  
Thiophane 1

**PERIODICAL:** Zhurnal obshchey khimii, 1960, Vol. 30, No. 4, pp. 1264-1268

**TEXT:** Only a small number of reports on the mass spectra of sulfur compounds had been hitherto published. Detailed investigations were only carried out with respect to a series of thiophenes, whose spectroscopic data were, as expected, similar to those of alkyl benzenes (Ref. 2). In the present paper the results of mass-spectrometric investigations of homologous  $\alpha$ -alkylthiophanes exhibiting radicals of normal structure ( $C_1 - C_6$ ) were described. The spectrometric investigation by means of the already earlier (Ref. 3) modified mass spectrometer MC-1 (MS-1) is described in detail. The distribution of the mass intensities in the spectra, the values of the relative sensitivity, and the dependence of these values on

Card 1/2

L 23533-65

ACCESSION NR: AP5002002

S/0020/64/159/006/1411/1414

AUTHOR: Kovyazin, N. V. (Deceased); Polykova, I. N.; Pochtareva, V. I. B

TITLE: Influence of temperature on the recovery of the reproductive function of yeast cells damaged by ultraviolet radiation

SOURCE: AN SSSR. Doklady, v. 159, no. 6, 1964, 1411-1414

TOPIC TAGS: radiation damage, yeast cell, reproduction, ultraviolet irradiation, reproduction recovery, postradiation treatment

ABSTRACT: The postradiation treatment of exposed cells is known to affect their chances for survival. Thus, one of the authors showed earlier (N. V. Kovyazin, Shurn. obshch. biol., 21, 382, 1960) that keeping UV-irradiated diploid yeast cells in aqueous nonnutritive medium at 30C led to a partial regeneration of their reproductive functions. The present work (on a 24-hr. culture of S. Vini) investigated the dependence of the recovery process on the length and temperature of incubation and complements the previous findings. As shown in Fig. 1. of the Enclosure, recovery is maximal in a temperature range of 20-40C. A reduction in temperature (down to 10C) which reduces the metabolic rate also slows down the recovery processes within the cells. Various reactions seem to take place simul-  
Card 1/42

L 23533-65

ACCESSION NR: AP5002002

taneously and the recovery process requires a minimum background temperature for a successful regeneration of the reproductive capacity. In addition to a predetermined temperature, these reactions also require a definite interval of time, which is longer at higher doses of radiation. Orig. art. has: 2 figures. 0

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow state university)

SUBMITTED: 25Mar64

ENCL: 02

SUB CODE: 1S

NO REF SOV: 004

OTHER: 000

Card 2/4

POLYKOVSKAYA, I.D. (Moskva)

Pseudotumor syndrome in pregnancy. Vrach. delo No.6:62-66  
Je'63. (MIRA 16:9)

1. Klinika nervnykh bolezney (zav. - prof. N.K.Bogolepov)  
Vtorogo moskovskogo meditsinskogo instituta imeni N.I.  
Pirogova i nervnoye otdeleniye Pervoy Moskovskoy gorodskoy  
klinicheskoy bol'nitsy.  
(PREGNANCY, COMPLICATIONS OF) (BRAIN—DISEASES)

YEROKHINA, L.G., kand.med.nauk; POLYKOVSKAYA, I.D. (Moskva)

Significance of lesions of the stellate ganglion in the early  
diagnosis of Pancoast's tumor. Klin.med. 39 no.4:108-111 '61.  
(MIRA 14:4)

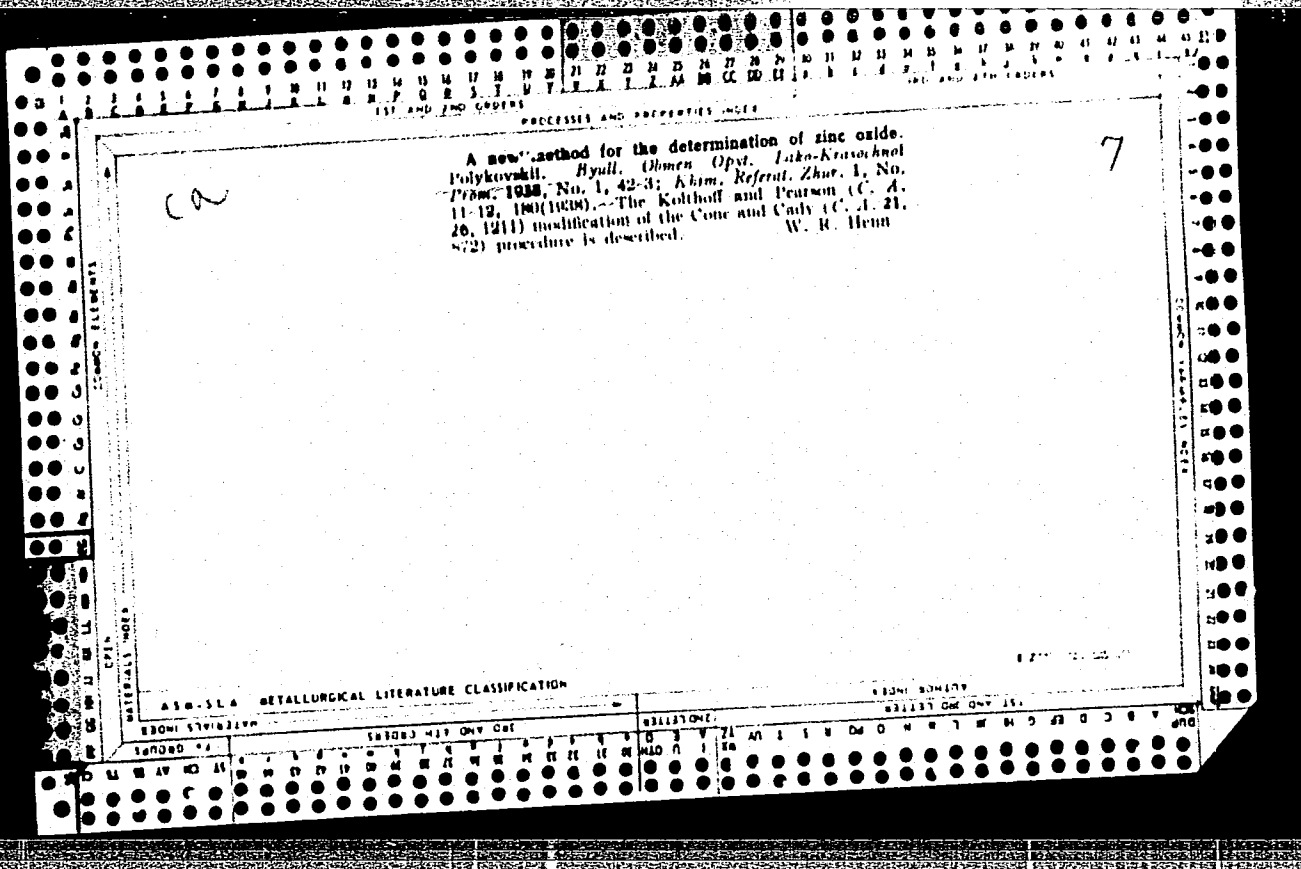
1. Iz kliniki nervnykh bolezney (zav. - prof. N.K. Bogolepov)  
II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.  
(LUNGS--TUMORS)

POLYKOVSKAYA, I.D.

Labor following compression fracture of the spine. Akush. i  
gin. no.1:144-145 '65. (MIRA 18:10)

1. Klinika nervnykh bolezney (zav.-- prof. N.K. Bogolepov) II  
Moskovskogo meditsinskogo instituta imeni Pirogova i nervnogo  
otdeleniya 1-y gorodskoy klinicheskoy bol'nitsy (glavnyy vrach  
L.D. Chernyshov), Moskva.





C 9

12

Spray-drying installation for drying milk. A. Poly-  
kovskii (Preserved Milk Plant, Pavlodar). *Molochnaya*  
*Prav.* 10, No. 12, 23-6(1949).—A complete description,  
with dimensions and flow sheet, of the centrifugal spray-  
drier for milk in Pavlodar (U.S.S.R.). G. M. K.

38140. POLYKOVSKIY, A.

Raspylitel'nyy agregat dlya sushki moloka. Moloch. prom-st', 1949,  
No 12, s. 23-25

POLYKOVSKIY, A.M.

Effect of selective fading on phototelegraphic signals modulated  
by different methods. *Elektrosviaz'* 10 no.2:33-35 P '56.  
(Phototelegraphy) (Modulation (Electronics)) (MIRA 9:6)

13 июня  
в 17 часов

**В. С. Костин (США)**

Структурное взаимодействие с неллинейными частотной модуляцией

**В. И. Андреев**

Резонансные процессы и резонансы в системах с нелинейными параметрами

**И. И. Гутинский**

Электронные устройства для новых разделов радиотехники

**Работа секций**

**I. СЕКЦИЯ ТЕОРИИ ИНФОРМАЦИИ**

Руководитель: **В. И. Сафоров**

9 июня  
(с 10 до 16 часов)

**В. И. Сафоров**

**Л. Ф. Воронин**

О кодировании телеграмм радиотехническими параметрами сигнала

2

**Г. Г. Козловский,  
В. И. Гурьянов,  
Р. Г. Котко,  
Р. И. Новиков,  
С. И. Раскин**

О методах эффективности использования каналов связи при передаче автоматизированной информации

**А. И. Пашинский**

Исследование оптимальных систем гармонического кодирования информации

**В. С. Жуков**

Исследования, демонстрация и перспективы усовершенствования систем гармонического кодирования речи

9 июня  
(с 18 до 22 часов)

**Л. И. Фомин**

Применение способности симметричных каналов с переменными параметрами при ограниченной мощности

**Л. Ф. Воронин**

О скорости передачи сообщений по симметричным каналам

3

report submitted for the Confidential Meeting of the Scientific Technological Society of  
Radio Engineering and Electrical Communications Dr. A. G. Popov (VVSSE), Moscow,

8-12 June, 1959

И. М. Хурин  
Широк спектральный диапазон импульсных автоколебаний

В. Л. Герман  
О параметрах делителей и релаксационной гетеродинности в магнитной релаксации

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Г. М. Уткин  
Полупроводниковые релаксы и нелинейности автоколебательных систем в генераторах постоянной стабильности частоты

Г. Ш. Кулашвили  
К теории устойчивости автоколебаний

М. Е. Германович,  
В. Е. Кибирь

Фазовые соотношения в нелинейных параметрических системах

В. П. Демин  
О свойствах колебаний в нелинейных системах с частотой р-н перебора

и

Г. Ш. Кулашвили  
О существовании предельного цикла в нелинейных автоколебательных системах

11 страниц  
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А. И. Подкопный  
Новые способы синхронизации и синхронизации детектирования

М. Е. Жданович,  
Ю. Я. Серафим

Максимизация устойчивости частоты

М. Д. Воронин

Об одном способе построения одномерного или двумерного возбуждения

В. А. Еким

О амплитудно-фазовых параметрах в преобразователях частоты

11 страниц  
(с 18 до 22 часов)

47

report submitted for the Centennial Meeting of the Scientific Technological Society of  
Radio Engineering and Electrical Communications in A. S. Popov (VSEKH), Moscow,  
8-12 June, 1959

POLYKOVSKIY, A. M., Cand Tech Sci -- (diss) "Research into some problems of the construction of systems of harmonic coding of speech." Moscow, [Redizdat], 1960. 16 pp; (Ministry of Communications USSR, Moscow Electrical Engineering Inst of Communications); 200 copies; price not given; printed on duplicating apparatus; (KL, 17-60, 158)

20075

S/106/60/000/012/008/009  
A055/A033

9,2590 (and 2404)

AUTHOR: Polykovskiy, A. M.

TITLE: New Method of Synthesis of Voice Spectra

PERIODICAL: Elektrosvyaz', 1960, No. 12, pp. 72-75

TEXT: The distinctive feature of the method of synthesizing voice spectra described in the present article is the utilization, in the synthesizer system, of a binary delay line consisting in magneto-semiconductor circuits or electronic commutators. The use of such binary lines instead of the delay lines composed of reactive elements allows to simplify the whole system and to render it more compact. Indeed, the delay line with reactive elements can ensure the required accuracy of the synthesis only when it contains a great number of elements including capacitances, inductances and electronic tubes. In the author's method, voice spectra with harmonic envelopes are obtained by the summation of pulses from the outputs of the binary delay lines, and the synthesis of the spectra is effected with the aid of these envelopes. In his article, the author analyses some spectra formed by sequences of  $\zeta$ -functions and their envelopes, such as they are synthe-

Card 1/2



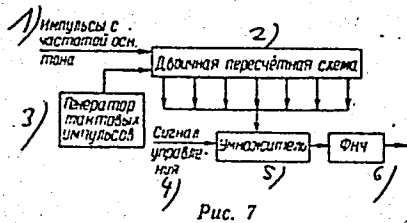
40072

New Method of Synthesis of Voice Spectra

S/106/60/000/012/008/009  
A055/A033

sized by his method. He reproduces a schematic diagram of a synthesizer specially designed for synthesizing voice spectra according to his method. He gives some recommendations allowing to avoid errors, and states some limitations inherent to his method. There are 7 figures and 2 Soviet references.

Figure 7:



- 1) pulses with the frequency of the key-note
- 2) binary scales
- 3) beat-pulse generator
- 4) control signal
- 5) multiplier
- 6) low-frequency filter

Card 2/2

KOROTKIY, G.C.; POLYKOVSKIY, A.M., otv. red.; ALEKSEYEVA, T.D.,  
red.

[Automatic control and reservation in radio relay lines]  
Avtomatizatsia i rezervirovanie radioreleinykh lini  
sviazi. Moskva, Red.-izd. otdel Vses. zaochnogo elektro-  
tekh. in-ta sviazi, 1963. 29 p. (MIRA 18:4)

SEMENOV, N.A.; POLYKOVSKIY, A.M.; SEMENOV, V.V., otv. red.;  
VRONSKAYA, L.S., red.

[Surface-wave lines for television transmission] Linii  
poverkhnostnoi volny dlia peredachi televideniia. Moskva,  
Red.-izd. otdel VZEIS, 1963. 71 p. (MIRA 18:3)

POLYKOVSKIY, Andrey Markovich; KOROTKIY, G.G., otv. red.; SILINA,  
M.Z., red.

[Frequency stabilization in radio relay communication lines]  
Stabilizatsiia chastoty na radioreleinykh liniakh sviazi.  
Moskva, Red.-izd. otdel Vses. zaonogo elektrotekhn. in-ta  
sviazi, 1963. 19 p. (MIRA 18:3)

POLYKOVSKIY, A.Ye.

Heating of the Chelyabinsk Liqueur and Vodka Plant. Spirt. prom. 25  
no.7:35-37 '59. (MIRA 13:2)  
(Chelyabinsk--Liquor industry--Equipment and supplies)  
(Heat engineering)

POLYKOVSKIY, A.Ye.

Simplifying the management of the Chelyabinsk Liqueur and Vodka  
Plant. Spirt. prom. 25 no.7:31 '59. (MIRA 13:2)  
(Chelyabinsk--Liquor industry)

POLYKOVSKIY, D.

Courses to raise the qualifications of specialists. Mias. ind.  
SSSR 29 no. 4:41 '58. (MIRA 11:8)  
(Meat industry)

POLYKOVSKIY, I.Ya.

Gating system for stacked molding. Lit. proizv. no.1:46-47 Ja '59.  
(MIRA 12:1)

(Founding)



POLYKOVSKIY, Kh.T.

Prevent foot-and-mouth disease during transportation.  
Veterinariia 42 no.9:86-90 S '65.

(MIRA 18:11)

1. Nachal'nik veterinarnoy sluzhby pri Upravlenii Moskovskoy zheleznoy dorogi.

E 10363-66 EWI(1)/EWA(3)/EWA(b)-2 JK  
 ACC NR: AP5028200 SOURCE CODE: UR/0346/65/000/009/0086/0090  
 AUTHOR: <sup>44,55</sup> Polykovskiy, Kh. T. (Chief of veterinary services) 3.2  
88  
 ORG: <sup>44,55</sup> Moscow Railroad Administration (Upravleniye Moskovskoy zheleznoy dorogi)  
 TITLE: <sup>6,44,55</sup> Prevent foot and mouth disease during transport  
 SOURCE: Veterinariya, no. 9, 1965, 86-90  
 TOPIC TAGS: foot and mouth disease, animal disease, sanitation, veterinary medicine  
 ABSTRACT: Railroads are the principal means of transporting cattle in the Soviet Union. Hence a fairly elaborate veterinary inspection system has been devised to prevent the spread of foot and mouth and other disease through this mode of transportation. Control starts with study of the epizootic situation on the individual farms from which cattle shipments originate, and is extended to study of the condition of the freight cars, etc. The author cites cases in which a breakdown of inspection due to human error resulted in incidents involving considerable losses. The effective operation of the system depends largely on close cooperation between the regional and transport veterinary services. Experience has shown that the slightest dislocation of any link in the chain of measures instituted to eradicate foot and mouth disease has severe economic consequences.  
 SUB CODE: 06/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 000  
 UDC: 619 : 614.98  
 Card 1/1

POLYKOVSKIY, M.D.

M. D. Polykovskiy, All-Union Institute of Experimental Veterinary  
Medicine, author of an article "On the Biology of the Virus of Fowl Plague"  
reviewed by F.K. Borisovich.  
SO: Veterinariya; Vol. 23; 8-9; 16-18; August/September 1946 uncl de g  
Trans. # 312 by L. Lulich

POLYKOVSKIY, M.D., Cand. of Vet. Science

Ia. R. Kovalenko: "Necrobacillosis of agricultural animals."

Ogiz. Sel'khozgiz, Moscow, 1948, (Reviewed by M. D. Polykovskii,)

SO: Vet.26 (10) 1949, p. 62

POLYKOVSKIY, M.D.

[Anaerobic dysentery in sheep] Anaerobnaia dizenteria iagniat.  
Moskva, Gos. izd-vo sel'skokhoz. lit-ry, 1952. 109 p. (MLRA 7:7)  
(DYSENTERY) (SHEEP--DISEASES)

1. POLYKOVSKIY, M. D., Prof.
2. USSR (600)
4. Sheep - Diseases
7. Etiology of pulmonary diseases of sheep, Trudy Vses. inst. eksp. vet., 19, No. 1, 1952.

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

VASIL'KOV, G., kand.veterinarnykh nauk; POLYKOVSKIY, M.D.; KUDRYAVTSEV, A.A.;  
MAMADZHANOV, I.; MOLDBAYEV, Zh.; LAVRENT'YEV, M.; KHERUVINOV, V.P.;  
KURANOV, Yu.

Throughout the Soviet Union. Veterinariia 37 no.4:91-96 Ap'60  
(MIRA 16:6)

1. Uchenyy sekretar' veterinarnoy sekti Vsesoyuznoy akademii  
sel'skokhozyaystvennykh nauk imeni Lenina (for Vasil'kov).  
(VETERINARY RESEARCH) (VETERINARY MEDICINE)  
(VETERINARY HYGIENE)

KHRENOV

POLYKOVSKIY, M. D., Prof., YAKOVLEV, S. A.

Sheep - Diseases

Enzootic ataxia in lambs. Veterinariia 29 no. 9, 1952.

Monthly List of Russian Accessions, Library of Congress. November, 1952. UNCLASSIFIED.



POLYKOVSKIY, M.D.; ALIKAYEV, V.A.

Pulmonary diseases in sheep. Veterinaria 31 no.11:39-45 N '54.  
(MLBA 7:11)

(SHEEP--DISEASES)

POLYKOVSKIY, M.D., doktor veterinarnykh nauk, professor.

"Anaerobic infections in domestic animals". Ia.R. Kovalenko.  
Reviewed by M.D.Polykovskii. Veterinariia 32 no.5:86-90 My  
155. (MLRA 8:7)  
(BACTERIA, ANAEROBIC)(VETERINARY MEDICINE)(KOVALENKO, IA.R.)

POLYKOVSKIY, Mikhail Davydovich; ALIKAYEV, Vladimir Aver'yanovich;  
KNYAZEVSKIY, A.V., redaktor; VESKOVA, Ye.I., tekhnicheskiy redaktor

[Lung diseases in sheep] Legochnye zabolevaniia ovets. Moskva, Gos.  
izd-vo selkhoz. lit-ry, 1956. 71 p. (MLRA 9:11)  
(Lungs--Diseases)  
(Sheep--Diseases and pests)

POLYKOVSKIY, M.D., professor, doktor veterinarnykh nauk.

Article on "Crowfoot poisoning showing clinical aspects of a bradset-type disease." Reviewed by M.D. Polykovskii. Veterinariia 33 no.9:85-86 S '56. (Sheep--Diseases) (Crowfoot--Toxicology) (MLRA 9:10)

POLYKOVSKIY, M.D.; KAGAN, F.I.; LYAUSHKIN, A.V.

Brazy-type diseases of sheep in southern and southeastern Kazakhstan.  
Veterinariia 35 no.3:20-27 Mr '58. (MIRA 11:3)  
(Kazakhstan--Sheep--Diseases and pests)

LIKHACHEV, N.V., prof.; AGRINSKIY, N.I., prof.; SYURIN, V.N., prof.;  
SPESIVTSEVA, N.A., prof.; KOLOBOLOTSKIY, G.V., prof.;  
ZOLOTAREV, N.A., prof.; KORYAZHNOV, V.P., prof.; KOLESOV,  
S.G., prof.; BABICH, M.A., prof.; PETROV, A.M., prof.; ZOTOV,  
A.P., prof.; DOROFEYEV, K.A., prof.; POLYKOVSKIY, M.D., prof.;  
SOLOMKIN, P.S., prof.; ORLOV, Ye.S., prof.; KOTOV, V.T., prof.;  
TRILENKO, P.A., prof.; LYUBASHENKO, S.Ya., prof.; USACHEVA,  
I.G., red.; YARNYKH, A.M., red.; BALLOD, A.I., tekhn. red.

[Veterinary laboratory practice] Veterinarnaya laboratornaya  
praktika. Moskva, Sel'khozizdat. Vol. [General microbiological  
methods of investigation] Obshchie mikrobiologicheskie metody is-  
sledovaniya. 1963. 566 p. Vol.2. [Biochemical, chemico-  
toxicological, and veterinary hygienic methods of investigation]  
Biokhimicheskie, khimiko-toksikologicheskie i zoogigienicheskie  
metody issledovaniya. 1963. 431 p. (MIRA 16:8)  
(Veterinary laboratories)

POLYKOVSKIY, M.D., professor; LYAUSHKIN, A.V., mladshiy nauchnyy sotrudnik;  
~~REBIMOV, A.M.~~, mladshiy nauchnyy sotrudnik

Serological method for the diagnosis of braxy and infectious enterotoxemia in sheep. Trudy VIEV 22:76-92 '59. (MIRA 13:10)  
(Serum diagnosis) (Sheep--Diseases and pests)

POLYKOVSKIY, M.D., prof.

Achievements of science in the control of infectious diseases in  
livestock. Trudy VIEV 23:215-244 '59. (MIRA 13:10)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.  
(Veterinary medicine)



POLYKOVSHIY, M. G.

42716. SHEFFER, D. G. i POLYKOVSHIY, M. G. Khirurgicheskoye Lecheniye Konhevnikovskoy Epilepsii. Trudy In-ta Neyrokhirurgii Im. Burdenko, T. I, 1948, s. 147-60

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

POLYKOVSKIY, M. G; DOBRONRAVOV, S. N.

Electroencephalography in Kojevnikoff's epilepsy. Zh. nevropat.  
psikhiat., Moskva 52 no.5:47-49 May 1952. (GLML 22:2)

1. Docent for Polykovskiy. 2. Of the Clinic for Nervous Diseases of  
Sverdlovsk Medical Institute (Head -- Prof. D. G. Shefer) and  
of Sverdlovsk Scientific-Research Institute for Physical Therapeu-  
tic Methods of the Ministry of Public Health RSFSR (Director --  
Candidate Medical Sciences Ye. I. Milyutina).

ZHUKOV, A.; POLYANSKIY, N.

Lens turret for the "Kvarts" camera. Sov. foto 22 no.12:32-33  
D '62. (MIRA 16:1)

(Motion-picture cameras)

POLYKOVSKIY, T.S. (Petrozavodsk)

Heterotopy of pancreatic tissue in the spleen. Arkh.pat. 21 no.3:  
77-78 '59. (MIRA 12:12)

1. Iz patologoanatomicheskogo otdeleniya (zav. T.S. Polykovskiy)  
Petrozavodskoy gorodskoy bol'nitsy (glavnyy vrach M.D. Zhuravlev)

(PANCREAS, abnorm.

heterotopic tissue in spleen, histol. (Rus))

(SPLEEN, abnorm.

heterotopic pancreatic tissue in spleen, histol.

(Rus))

POLYKOVSKIY, T.S.

Hypertension following gunshot wound, caused by thrombosis of the  
of the abdominal aorta, occlusion of the ureter and hydronephrosis.  
Arkh. pat., Moskva 12 no.6:43-44 Nov-Dec 50. (GLML 20:4)

1. Of Petrozavodsk Municipal Hospital, Petrozavodsk.

POLYKOVSKIY, T.S.

Hyaline membranes in the lungs of newborn infants. Akush.i gin.  
36 no.5:50-56 8-0 '60. (MIRA 13:11)

1. Iz prozektorskogo otdeleniya (zav. T.S. Polykovskiy) Petrozavod-  
skoy gorodskoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach Karel'-  
skoy ASSR M.D. Zhuravlev).  
(LUNGS--DISEASES) (INFANTS (NEWBORN)--DISEASES)

POLYKOVSKIY, T.S.

Case of congenital listeriosis. Akush.i gin. 36 no.1:109-  
110 Ja-F '60. (MIRA 13:10)  
(LISTERIOSIS) (INFANTS (NEWBORN)—DISEASES)

*10/11/57 7.2*  
POLYKOVSKIY, T.S.

Ruptures of the aorta. Vrach.delo supplement '57:50 (MIRA 11:3)

1. Petrozavodskaya gorodskaya bol'nitsa.  
(AORTA--RUPTURE)



POLYKOVSKIY, T.S.

Congenital cytomegaly combined with rare developmental deformity.  
Vop. okh. mat. i det. 5 no. 2:89-90 Mr-Apr '60. (MIRA 13:10)

1. Iz prozektorskogo otdeleniya (zav. T.S. Polykovskiy)  
Petrozavodskoy gorodskoy bol'nitsy (glavnyy vrach - zasluzhennyy  
vrach Karel'skoy ASSR M.D. Zhuravlev).  
(DEFORMITIES) (PATHOLOGY, CELLULAR)

VELIKORETSKIY, D.A.; LORIYE, K.M.; FINKEL', I.I.; GRIGORCHUK, Yu.F.;  
BERGER, L.Kh.; UTROBINA, V.V.; KHARCHENKO, V.P.; MESHCHERYKOV, A.V.,  
student V kursa; OBEREMCHENKO, Ya.V., kand.med.nauk; NIKITIN, A.V.;  
MUKHOYEDOVA, S.N.; KUSMARTSEVA, L.V., assistant; KUZNETSOV, V.A.,  
dotsent; KUKHTINOVA, R.A., assistant; BONDARENKO, Ya.D. (g. Fastov);  
KURTASOVA, L.V. (g. Fastov); PEVCHIKH, V.V.; CHURAKOVA, A.Ye.;  
BABICH, M.M.; KUZ'MIN, K.P.; PAVLOV, S.S.; SHEVLYAKOV, L.V., kand.  
med.nauk; IGNAT'YEVA, O.M.; ZEYGERMAKHER, G.A.; GUTKIN, A.A.;  
POLYKOVSKIY, T.S.

Resumes. Sov.med. 25 no.11:147-152 N '61.

(MIRA 15:5)

1. Iz Instituta grudnoy khirurgii AMN SSSR (for Velikoretskiy, Loriye, Finkel').
2. Iz bol'nitsy No.3 Gorlovki Stalinskoy oblasti (for Grigorchuk).
3. Iz Tyumenskoy oblastnoy bol'nitsy (for Berger, Utrobina).
4. Iz Karatasskoy rayonnoy bol'nitsy Yuzhno-Kazakhstanskoy oblasti (for Kharchenko).
5. Iz Gospital'noy khirurgicheskoy kliniki I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova (for Meshcheryakov).
6. Iz kliniki propedevticheskoy terapii Stalinskogo meditsinskogo instituta na baze oblastnoy klinicheskoy bol'nitsy imeni Kalinina (for Oberemchenko).
7. Iz kliniki gospital'noy terapii Voronezhskogo meditsinskogo instituta (for Nikitin, Mukhoyedova).
8. Iz kafedry obshchey khirurgii Kishinovskogo meditsinskogo instituta (for Kusmartseva).

(Continued on next card)

VELIKORETSKIY, D.A.---(continued) Card 2.

9. Iz akushersko-ginekologicheskoy kliniki Stalinskogo meditsinskogo instituta na baze bol'nitsy imeni Kalinina (for Kuznetsov, Kukhtinova).
10. Iz gospital'noy terapevticheskoy kliniki Izhevskogo meditsinskogo instituta (for Pevchikh, Churakova).
11. Iz Nosovskoy rayonnoy bol'nitsy Chernigovskoy oblasti (for Babich).
12. Iz Vyborgskoy mozhrayonnoy bol'nitsy (for Pavlov).
13. Iz 1-y gorodskoy bol'nitsy Tyumeni (for Ignat'yeva).
14. Iz 2-y infektsionnoy bol'nitsy g. Zaporozh'ya (for Zeygermakher).
15. Iz infektsionnogo i prozektorskogo otdeleniy Petrozavodskoy gorodskoy bol'nitsy (for Gutkin, Polykovskiy).

(MEDICINE--ABSTRACTS)

POLYKOVSKIY, T.S.; PRIBLUDA, B.A.

Work of the pathoanatomical section of the Karelian Society of Physicians in 1959. Arkh.pat. 22 no.7:90-91 '60. (MIRA 14:1)

1. Predsedatel' seksii patologoanatomov Respublikanskogo nauchnogo obshchestva vrachey Karel'skoy ASSR (for Polykovskiy). Sekretar' seksii patologoanatomov Respublikanskogo nauchnogo obshchestva vrachey Karel'skoy ASSR (for Pribluda).

(KARELIA--PATHOANATOMICAL SOCIETIES)

POLYUSHKIN, V., inzh.-mekhanik

A practical manual. Mor. flot. 24 no.8:46 Ag '64. (MIRA 12:9)

1. Glavnyy spetsialist Gosudarstvennogo proyektno-konstruktorskogo i nauchno-issledovatel'skogo instituta morskogo transporta.

POLYKOVSKIY, V.S.; ROYZENMAN, F.M.; MAKSAREVA, T.S.; FOKEYEV, V.M.

Methodology of determining pressure by inclusions in quartz.  
Trudy MGRI 39:92-100 '63. (MIRA 16:10)

POLYCHENKO, V.S.; BAYRAMOV, P.M.

Thermodynamic conditions of the formation of quartz crystals in the pegmatites of Maydantal. Uzb. geol. zhur. 9 no.3:66-71 '65.  
(MIRA 18:8)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut geologii i mineral'nogo syr'ya, Tashkent.

POLYKOVSKIY, V.S.

Structure and genesis of chambered pegmatites in Maydantal.  
Trudy MGRI 39:77-85 '63. (MIRA 16:10)



ELINSON, M.M.; POLYKOVSKIY, V.S.

Gas composition of pneumatolytic-hydrothermal solutions. Geokhimiya no.8:767-776 Ag '63. (MIRA 16:9)

1. Ordzhonikidze Institute of Geological Prospecting, Moscow and Middle Asia Scientific-Research Institute of Geology and Mineral Raw Material.

ELINSON, M.M.; POLYKOVSKIY, V.S.

Study of gases in quartz crystals from the Maydantal. Izv.vys.  
ucheb.zav.; geol. i razv. 4 no.11:26-36 N '61. (MIRA 15:2)

1. Moskovskiy geologorazvedochnyy institut imeni S.Ordzhonikidze.  
(Tien-Shan--Quartz) (Tien-Shan--Gas, Natural)

POLYKOVSKIY, V.S.

Iceland spar of the Ugam deposits. Trudy Uz.geol.upr. no.1:  
92-102 '60. (MIRA 14:8)

(Ugam Valley--Iceland spar)