MARGARITOVA, N.F., ZVEREV, M.P.

polymerization kinetics of 2-chloro-1,3-butadiene on the ω-form of polychloroprene. Ukr. khim.zhur. 23 no.6:734-737 '57. (MIRA 11:1)

1.Dnepropetrovskiy khimiko-tekhnologicheskiy institut im. Dzerzhinskogo i Moskovskiy institut tonkoy khimicheskoy tekhnologii im. Lomonosova.
(Polymerization) (Chloroprene)

BONDAREVA, V.I.; ZVEREV, M.D.

Experimental infection of foxes and jackals with the cestode Multiceps multiceps. Trudy Inst. zool. AN Kazakh. SSR 7:237-240 '57. (MLRA 10:9)

(Tapeworms) (Parasites--Jackals) (Parasites--Foxes)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

MARGARITOVA, M.F.; ZVEREV, M.P.

Copolymerization of 2-chlorobutadiene-1,3 with acrylonitrile. Ukr. khim. zhur. 23 no.1:75-78 '57. (MIRA 10:6)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut imeni F.E. Dzerzhinskogo, Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova.
(Polymerization) (Butadiene) (Acrylonitrile)

MICHURINA, G.A.; ZVEREV, M.P.; BICHKOV, N.A.; [illegible] V.S.

Production of polypropylene fibers from a polymer solution. Khim. volok. no.4:18-20 '63. (MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

ZVEREV, M.

AUTHOR: Margaritova, M. F. and Zverev, M. P. 73-1-13/26

TITLE: Copolymerisation of 2-Chlorobutadiene-1,3 and Acrylonitrile. (Sovmestnaya Polimerizatsiya 2-Khlorbutadiyena-1,3 s Akrilonitrilom.)

PERIODICAL: Ukrainiskiy Khimicheskiy Zhurnal, 1957, Vol.23, No.1, pp. 75 - 78 (USSR).

ABSTRACT: Investigationswere carried out on the mechanism of the above reaction. 4 sets of tests are discussed with starting solutions of varying monomer concentrations. Results of these tests are tabulated in table 1. The experiments were carried out in the presence of 2% benzoyl peroxide. It can be seen that the depth of polymerisation decreases with increasing acrylonitrile content in the starting mixture and the produced copolymers have a higher 2-chlorobutadiene-1,3 content. This shows the higher activity of 2-chlorobutadiene-1,3. On the basis of the obtained data the copolymerisation constants were calculated and it was found that α(for 2-chlorobutadiene-1,3) = 6.22; β(for acrylonitrile) = 0.15. Diagram 1 illustrates the compositions for 2-chlorobutadiene-1,3 - acrylonitrile, the composition of the starting mixture, the differential composition of the polymers, the integral

Card 1/2

ZVEREV, M.P.; KOSTINA, T.P.; POLOVINKINA, L.A.

Strengthening of fibers made from crystalline polypropylene. Khim. volok. no.4:2-6 '65. (MIRA 18:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volkona.

ZVEREV, M.P.

Production of fibers from polyolefins. Khim. volok. no. 6:3-9 '60. (MIRA 13:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Textile fibers, Synthetic) (Olefins)

ZUBKOV, A.F.; ZUBENKO, V.S.; KUSTINA, T.F.

Dependence of the thermomechanical properties of polypropylene on its structural composition. Part 2. Vysokom. soed. 2 no. 11:1620-1624 N '60. (MIRA 13:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Propene)

ZUBOV, P.I.

Plasticizer - filler interaction. Koll. zhur. 22 no. 6:756-757 N-D '60. (MIRA 13:12)

1. Institut fizicheskoy khimii AN SSSR i Institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova, Moskva.
(Fillers (In paper, paint, etc.)) (Plasticizers)

ZVEREV, M. P.

ZVEREV. M. P. - "Investigation of the process of plastification of divinyl-styrol rubbers". Moscow, 1955. Min Higher Education USSR. Moscow Inst of Fine Chemical Technology imeni M. V. Lomonosov. (Dissertation for the Degree of Candidate of Chemical Sciences)

SO: Knizhnaya Letopis' No 46, 12 November 1955. Moscow

ZVEREV, M.P.; KLIMENKOV, V.S.

Some thermomechanical properties of isotactic polypropylene. Vysokom.soed. 1 no.5:758-760 My '59. (MIRA 12:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Propene)

AUTHORS: Zverev, M.P.; Yeroshkina, Ye.A.; Zubov, P.I.

TITLE: The Structure of Gels (Stroyeniye studney). 14. The Effect of the Nature of Plasticizer on the Physical-Mechanical Properties of Filled Divinylstyrene Rubber (14. Vliyaniye prirody plastifikatora na fiziko-mekhanicheskiye svoystva napolnennogo divinilstirol'nogo kauchuka)

PERIODICAL: Kolloidnyy zhurnal, 1958, vol XX, Nr 3, pp 329-331 (USSR)

ABSTRACT: It is known that divinylstyrene rubber, vulcanized without filler and in the presence of non-polar plasticizers, has better mechanical properties than rubbers plasticized by polar substances. In the article, these properties are investigated in filled rubbers. Figure 1 shows the properties of vulcanizates SKS-30A at a deformation speed of 50 and 500 mm/min. It is evident that the rubbers with polar plasticizers have better mechanical properties than those with non-polar substances. This result is explained by the blocking of the polar groups of the filler by the polar plasticizers, facilitating the adsorption of macromolecules on the surface of its particles.

The Structure of Gels. 14. The Effect of the Nature of Plasticizer on the Physical-Mechanical Properties of Filled Divinylstyrene Rubber

There are 4 graphs and 1 Soviet reference.

ASSOCIATION: Fiziko-khimicheskiy institut imeni L.Ya. Karpova (Physical-Chemical Institute imeni L.Ya. Karpov)
Dnepropetrovskiy khimiko-tekhnologicheskiy institut (Dnepropetrovsk Chemical-Technological Institute)

SUBMITTED: November 21, 1957

Card 2/2

1. Rubber—Properties—Analysis

87476

S/183/60/000/006/001/005
B020/B058

15.5560

AUTHOR: Zverev, M. P.

TITLE: On the Problem of the Production of Fibers From Polyolefins

PERIODICAL: Khimicheskiye volokna, 1960, No. 6, pp. 3-9

TEXT: This is a review of publications on the production and properties of polyolefins, the fibers made from them, as well as the problems connected with the shaping of the fibers, and the modification of their properties, with a view to extending their range of application. The synthesis of polyethylene by means of the Ziegler catalyst as well as the stereoregular polypropylene showed that synthetic fibers can be produced, having valuable physical and chemical properties without containing polar groups or hydrogen bonds. This is explained by the fact that these materials have a high degree of crystallinity with a high melting point of the crystals. The specific weights and melting points of the poly-α-olefins are listed in Table 1. It may be seen from Table 1 that polyethylene can be produced according to the ionic and radical mechanisms, while the remaining crystalline polymers can only be produced according to the ionic mechanism. The (high-density) polyethylene produced according to the radical mechanism

Card 1/3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4

On the Problem of the Production of Fibers From Polyolefins

S/183/60/000/006/001/005
B020/B058

is branched, while the (low-density) one produced according to the ionic mechanism is a linear polymer. The degree of crystallinity of high-density polyethylene is not higher than 60%, while that of the low-density polyethylene amounts to from 65 to 85%. Complex catalysts (halides of the metals of the IVth to VIIth groups, alkyls of the metals of the IInd and IIIrd groups) and chromium oxide applied on aluminum silicate are used for polymerizations according to the ionic mechanism. In the polymerization of the α-olefins on a stereospecific catalyst, several linear isomers can be formed, i.e., isotactic, syndiotactic, and atactic ones. The properties of the synthetic fibers are determined by the properties of the polymer, which on their part depend on the chemical character of the monomer and the polymerization conditions. The ratio between viscosity of the melt and the molecular weight of the polymer is described with the aid of the melting index which is 0.7 for linear polyethylene, representing the lower boundary of workability. The upper boundary of workability is characterized by a melting index of 0.2. Table 2 gives data on the degree of polymerization, the upper limit of the melting index of polyolefins and the strength of fibers made from them. Figs. 1 and 2 give data on the effect of ultraviolet irradiation on monofilaments from polyethylene and polypropylene. The

effect of high-energy irradiation becomes apparent by destruction and simultaneous cross-linking of the macromolecules. The forming of fibers from thermoplasts is usually made from the melt, monofilaments with a diameter of from 0.004 to 0.020 mm being obtained from polyethylene and polypropylene, and filament fibers with a diameter of from 0.003 to 0.008 mm from polypropylene, a screw-type extruder of special design being used. The physical and mechanical properties of fibers on the basis of various polymers are shown in Table 3. V. V. Yur'yev et al (Ref. 29), S. E. Bresler et al (Ref. 27), V. S. Klimenkov and T. F. Kostina (Ref. 50), S. A. Nechayeva and Z. A. Rogovin (Ref. 55) are mentioned. There are 2 figures, 3 tables, and 61 references: 23 Soviet, 19 US, 9 British, 4 German, 2 French, and 4 Italian.

ASSOCIATION: VNIIV (All-Union Scientific Research Institute of Synthetic Fibers)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4

KASYANOV, I.S. (Moskva); SVIRIDOV, N.K. (Moskva); ZHUKOV, M.P. (Moskva)

Comparative biological effectiveness of the action of γ-radiation from 25 Mav. betatron and 180 kw X-radiation. Trudy TSentr. nauch.-issl. inst. rentg. i rad. 11 no.1:36-41 '64.
(MIRA 18:11)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

LAGUNOVA, I.G. (Moskva); ZVEREV, M.P. (Moskva)

Methodology of radiotherapy of sarcomas of the long tubular bones by means of 25 Mev. betatron. Trudy Vsesoi. nauch.-issl. inst. rentg. i rad. 11 no.1:165-171 '64. (MIRA 18:11)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

ZVEREV4M8S8

600

1. ZVEREV, M.S.

2. USSR (600)

"Catalog of faint stars," Astron. Zhur., 17, No 5, 1940. Astronomical Institute imeni Shternberg. (submitted May 1940, Moscow)

9. [redacted] Report U-1518, 23 Oct 1951.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

ZVEREV, M. S.

Zverev, M. S. "Fundamental astrometry," in symposium: Astronomiya v SSSR za tridtsat' let, Moscow-Leningrad, 1948, p. 15-32

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

ZVEREV, M. S.

ZVEREV, M. S. "On a calculation of the influence of short-period members of nutations," Soobsch. Gos. astron. in-ta im. Shternberga, Nos. 20-21, 1948, p. 14-19.

SO: U-3042, 11 March 53. (Letopis 'Zhurnal 'nykh Statey, No. 7 1949)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

ZVEREV, M.S.

Zverev, M.S. "Annual changes in the coefficients of Mayer's formula", Soobshch. gos. astron, in-ta im. Shternberga, Nos. 20-21, 1948, p. 20-23.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 7 1949) .

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

ZVEREV, M. S.

ZVEREV, M. S. "Tables of the annual changes in the Bessel numbers a, b, c, d, a', b', c', d'", Soobshch. Gos. astron. in-ta im. Shternberga, Nos. 20-21, 1948, p. 24-42.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 7 1949).

ZVEREV, M. S.

Zverev, M. S. - "A. A. Mikhaylov and his work in astronomy", Sbornik nauch.-tekhn. i priozvod. statey po geodezii, kartografii, topografee, aersoyemke i gravimetrii, Issure 21, 1948, pp. 15-18.

SO: U-4110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19, 1949).

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

ZVEREV, M. S.

Jul/Aug 48

USSR/Physics
Astronomy
Transits

"Selection of Stars for Observations With Transit Instruments," M. S. Zverev, 13 pp

"Astron Zhur" Vol XXV, No 4

Treats subject under: (1) time and azimuth corrections; (2) optimum conditions for determining azimuth; (3) optimum conditions for determining time correction; (4) Aurell graphs; (5) maximum values of Bessel formula coefficients; (6) choice of stars for relative determination of right ascension.

14/49T105

AVERY DR. S.

Time Measurements

GAISh Time Service 1941-1944; Trudy GAISh 18 no. 1, 1949

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

ZVEREV, M. S.

Time Signals

Summary moments of rhythm time signals for the second half of 1941; Trudy GAISh 18 no. 1, 1949.

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

ZVEREV, M. S.

Time Measurements

Study of astronomical observations results of GAISh time service 1941-1944; Trudy GAISh 18 no. 2, 1950.

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

ZVEREV, M. S.

Stars - Observations

Working list of stars for observation on transit instruments of the time service in latitudes ±50° - ±60°. Trudy GAISh 18 no. 2, 1950.

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

ZVEREV, M. S. (Editor)

"Reports of the State Astronomy Institute imeni P. K. Shternberg", Moscow Order of Lenin State University imeni M. V. Lomonosov, Moscow University Press, 36 pp, No. 41, 1950.

ZVEREV, M.S. PA156T6

USSR/Astronomy - Stellar Dynamics
Stellar Measurements Jan/Feb 50

"Determination of the Declination of Stars From Observations on Zenith Telescopes, " S.V. Drozdo, M.S. Zverev, State Astr Inst imeni P. K. Shternberg, Poltavsk Gravimetric Obs, Ukrainian Affiliate, Acad Sci, USSR, 6pp

"Astron Zhur" Vol XXVII, No 1

Collective work on creation of new system of star declinations and accurate determination of most refined natural movements of stars will improve practical investigation into the movement of the earth's poles. Submitted Aug 49.

ZVEREV, M.S., red.

[Catalog of weak stars; list of selected sectors of the sky with non-galaxial nebulae] Katalog slabykh zvezd; spisok izbrannykh ploshchadok neba s vnegalakticheskimi tumannostiami. Moskva, 1952. 14 p. (MIRA 12:9)

(Nebulae)

ZVEREV, Mitrofan Prof., Dr.

"Il Catalogo Delle Stelle Deboli -- Un Problema Astrometrico," 1

one of a group of papers presented by delegates from the USSR at the meeting of the International Astronomical Union in Rome, September 1952, a paper bound copy printed in Moscow in 1952.

ON FILE IN LIBRARY

ZVEREV, M.S.

[Catalog of weak stars as an astronomical problem; report at the 8th Congress of the International Astronomical Union. Rome 1952] Katalog slabykh zvezd kak astrometricheskaia problema; doklad na VII s"ezde Mezhdunarodnogo astronomicheskogo soiuza, Rim, 1952. Moskva, Izd-vo Akad.nauk SSSR, 1952. 78 p. [Microfilm] (MLRA 8:9)

(Stars--Catalogs)

ZVEREV, M.S.; TSESEVICH, V.P.

Period of AQ Lyrae. Per.zvezdy 9 no.1:69-73 S'52. (MLRA 8:10)

1. Odesskaya astronomicheskaya observatoriya
(Stars, Variable)

ZVEREV, M.S.

Fundamental astrometry. Usp.astron.nauk 6:3-143 '54. (MLRA 7:8)
(Astrometry)

Stars - Catalogs; Stars - Classification

List of stars in the catalog of weak stars. Astron. zhur. 29 no. 1, 1952. Gos. Astronomicheskiy IN-T im. P. K. Shternberga rcd. 21 May 1952.

SO: Monthly List of Russian Accessions, Library of Congress, May, 1952 [redacted], Uncl.

ZVEREV, M. S.; TSESEVICH, V. P.

Stars, Variable

Period of AQ Lyrae, Astron. tsir. No. 125, 1952.

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

"Star Catalog FKSZ in the FK3 System Complied From Observations on the Moscow Transit Instrument in 1940-41," Soobshch. Gos. astron. in-ta im. P. K. Shternberga, No 97-98, pp 3-46, 1954.

In 1939 the Third Astrometric Conference at the Shternberg National Astronomic Institute (GAISh) ordered a star catalog FKSZ compiled, containing stars of 7.5-8.5 magnitudes of K and M spectral classes and with proper motions not exceeding 0.04". This catalog was approved by the Fourth Astrometric Conference in 1939 and it was adjusted to be used with the system FK3. Observations were carried out at Pulkovo, Moscow, Kazan, Tashkent and Odessa. The catalog contains 545 stars for the equinox 1950.0 and for the times of observations. (RZhAstr, No 11, 1955).

SO: Sum. No. 812, 6 Feb 1956.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

"Catalog of 180 Declinations of Zenithal Stars at Pulkovo Observatory", Soobshch. Gos. astron. in-ta im. P. K. Shternberga, No. 97-98, pp 47-55, 1954.

Latitude variation of Pulkovo Observatory was investigated. Pulkovo zenithal stars were simultaneously observed by the Pulkovo zenith telescope and Moscow transit instrument. A periodic variation of declination of a 0.2" amplitude could be noticed. (RZhAstr, No 11, 1955)

SO: Sum No. 812, 6 Feb 1956.

"Tables of sec δ and tan δ With Annual Variations for 645 Stars FKSZ North of -30 Declination (for 1950.0)", Soobshch. Gos. astron. in-ta im. P. K. Shternberga, No 97-98, pp 56-72, 1954.

These tables facilitate the processing of transit observations of FKSZ stars. They contain the No of the star according to FKSZ and roughly approximated coordinates α and δ, sec δ, Δ sec δ, tan δ, Δ tan δ up to 0.001 accuracy (RZhAstr, No 11, 1955)

SO: Sum No 812, 6 Feb 1956.

ZVEREV, M.S., redaktor; OL', A.I., redaktor; KIRNARSKAYA, A.A., tekhnicheskiy redaktor

[Proceedings of the 11th Astrometrical Conference of the U.S.S.R., Pulkovo, May 24-26, 1954.] Trudy 11-i astronomicheskoi konferentsii SSSR; 24-26 maia 1954 g. Leningrad, Izd.Glav.astronomicheskoi observatorii v Pulkove, 1955. 269 p. (MLRA 9:2)

1. Vsesoyuznaya astrometricheskaya konferentsiya. 11th, Pulkovo, 1954. 2. Chlen-korrespondent AN SSSR (for Zverev).
(Pulkovo--Astrometry--Congresses)

SOV/35-59-11-8777

3.1410

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, Nr 11, p 12, (USSR)

AUTHORS: Zverev, M.S., Timashkova, G.M.

TITLE: The Next Problems of Transit Astrometry

PERIODICAL: Tr. 13-y Astrometr. konferentsii USSR 1956, Moscow-Leningrad, AS USSR, 1958, Nr 35 - 46. Diskus; 46 (res.Engl.)

ABSTRACT: Various studies are enumerated, and the merits of observatories are noted in the field of exact determination of coordinates of stars , observations of the sun, photographic and visual observations of the moon and large planets. The visual observations of bright stars will expediently limit by stellar magnitudes 6.0 -6^{m}.5. The weaker stars can be observed better with the help of photographic instruments. The wish is expressed that the catalogue of geodesic stars (CGS), as well as the stars of the FK3 supplement be re-observed. The observatories of the northern hemisphere dealing with observations of the reference weaker stars, for photographic zonal catalogues AGKZ, have started working with success. It is desirable to extend this type of work to the southern hemisphere as well. Special

Card 1/2

The Next Problems of Transit Astrometry

attention is paid to new programmes of the meridional circles. Two programmes are proposed: listing the latitudinal stars and listing the bright stars. The second programme is being considered in detail in two versions with a limiting magnitude of stars $6^m.0$ and $6^m.5$ with a declination from -10° to $+90^\circ$. To this programme lists of FK3 stars, (as reference stars) FK3 supp; KGZ, list of stars Blau as well as the 2nd and 3rd parts of the list of Parenago (it is expedient to observe the 1st part of the list photographically) are to be added. The total number of stars in the two versions of the programme of bright stars totals about 4,332 and 5,730 stars. Graphs of the distribution of stars over right ascension are cited. The authors give their preference to the first version of the programme. To the afore-mentioned programmes can be added lists of double stars, stars for observing through zenith telescopes and several others. The further development of transit-astrometry, the heightened accuracy of observations and the simplification of the processing will result from mastering a horizontal meridional instrument of the Sukharev or Atkinson type, the introduction into observation practice of modern photo-electric methods and the utilization of a new calculation technique for processing the observations.

K.G. Gnevysheva

YESIPOVA, M.I.; ZVEREV, M.S.

Observing the brightness of the rocket carrier of the third artificial earth satellite at the Pulkovo Observatory. Biul. sta.opt.nabl.isk.sput.Zem. no.4:12-16 '59.
(MIRA 13:6)

1. Glavnaya (Pulkovskaya) astronomicheskaya observatoriya AN SSSR.
(Artificial satellites--Tracking)

3(1)

AUTHOR: Zverev,M.S., Predsedatel' Astrometricheskoy komissii Astrosoveta AN SSSR (President of the Astronomical Committee of the Astronomic Council AS USSR)

SOV/33-36-1-29/31

TITLE: Remarks on the Chronicle of V.V.Podobed "Fourteenth Astronomical Conference"

PERIODICAL: Astronomicheskiy zhurnal, 1959, Vol 36, Nr 1, p 194 (USSR)

ABSTRACT: The author criticizes the incompleteness of the above report of Podobed (Astronomicheskiy zhurnal, 1958, Vol35, Nr 5, p 822). He states that Podobed has not mentioned the reports of Chang Yu-chu, Professor, Director of the Observatory on the Purpur Hill near Nanking; of the President of the Astronomical Assembly of Poland, Director of the Observatory of Poznan'; nor the assistance of Professor Ye.V.Rybka, Director of the Observatory of Kraków; or the role of the astronomers V.I.Sakharov and I.F.Korbut of Pulkovo during the production of new zenith-telescopes.

SUBMITTED: November 17, 1958

Card 1/1

ZVEREV, M.S.

F.N. Krasovskii at the Moscow University. Trudy MIIGAIK no.37:81-84 '59. (MIRA 15:5)
(Krasovskii, Feodosii Nikolaevich, 1878-1948)

PHASE I BOOK EXPLOITATION SOV/5721

Vsesoyuznaya astrometricheskaya konferentsiya.

Trudy 14-y Astrometricheskoy konferentsii SSSR, Kiyev, 27-30 maya 1958 g. (Transactions of the 14th Astrometrical Conference of the USSR, Held in Kiyev 27-30 May 1958) Moscow, Izd-vo AN SSSR, 1960. 440 p. Errata slip inserted. 1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Glavnaya astronomicheskaya observatoriya (Pulkovo).

Resp. Ed.: M. S. Zverev, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: N. K. Zaychik; Tech. Ed.: R. A. Zamarayeva.

PURPOSE: The book is intended for astronomers and astrophysicists, particularly those interested in astrometrical research.

COVERAGE: This publication presents the Transactions of the 14th Astrometrical Conference of the USSR, held in Kiyev 27-30 May 1958. It includes 27 reports and 55 scientific papers presented at the plenary meeting of the Conference

Card 1/16

and at the special sectional meetings. An appendix contains the resolutions adopted by the Conference, the composition of the committees, the agenda, and the list of participants at the Conference. A brief summary in English is given at the end of each article. References follow individual articles. The Presidium of the Astrometrical Committee (Chairman M. S. Zverev), which supervised the preparation of this publication, expresses thanks to the members of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskiy, A. B. Onegina, and Kh. I. Potter.

TABLE OF CONTENTS:

SCIENTIFIC REPORTS AND PAPERS

PHASE I BOOK EXPLOITATION SOV/4374

Astronomiya v SSSR za sorok let 1917 - 1957; sbornik statey (Forty Years of Astronomy in the USSR, 1917-1957; Collection of Articles) Moscow, Fizmatgiz, 1960. 728 p. 2,000 copies printed.

Ed.: L. V. Samsonenko; Tech. Ed.: N. A. Tumarkina; Editorial Board: A. A. Mikhaylov (Resp. Ed.), M. S. Zverev, P. G. Kulikovskiy, A. G. Masevich, E. R. Mustel'; V. V. Sobolev, and M. F. Subbotin.

PURPOSE: This book is intended for astronomers, astrophysicists, and others interested in the history of astronomy in the USSR.

COVERAGE: This major work on the history of astronomy in the USSR consists of two parts, review articles and bibliographies. Part I contains a collection of articles on various facets of astronomical research written by leading Soviet specialists in the field. Chief emphasis is placed on developments of the last ten years. The research activities and equipment of 23 Soviet observatories and institutes are described, and the leading scientific personalities of each mentioned. The geographic coordinates and elevations of 41 astronomical centers are listed. Individual articles discuss problems dealing with

theoretical astronomy, minor planets, comets and meteors, the physics of stellar atmospheres and gaseous nebulae, cosmogony, and radioastronomy. Part II contains a comprehensive bibliography (over 9,500 items) of Soviet astronomical publications from 1917 to 1957. An author index lists some 1,800 astronomers with references to their contributions. The bibliographic part was compiled by N. B. Lavrova, N. D. Petrova, Ya. G. Perel', and T. A. Zalkind.

TABLE OF CONTENTS:

PART I. COLLECTION OF ARTICLES

S/035/61/000/009/001/036
A001/A101

AUTHOR: Zverev, M. S.

TITLE: Report of the Presidium of the Astrometric Commission of the Astronomical Council, AS USSR

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 9, 1961, 3, abstract 9A22, ("Tr. 14-y Astrometr. konferentsii SSSR, 1958". Moscow-Leningrad, AN SSSR, 1960, 11-18. Discuss., 18, Engl. summary)

TEXT: Development of astrometric work in the USSR during 1955-1958 is characterized by the wide participation of the observatories in IGY. Investigations are conducted according to co-ordinated programs and methods. Artificial Earth's satellites are observed photographically and visually. The works on the catalog of weak stars and meridian observations are continued. A decision was adopted on organization of an expedition to the southern hemisphere. During the recent years, observations of the Moon have developed with the purpose of determining its shape and ephemeris time. The observatories were complemented with new equipment: zenith telescopes ЗТЛ-180 (ZTL-180), zenith photographic

Card 1/2

S/035/61/000/009/001/036
A001/A101

tubes, etc. Modern computing techniques, including electronic computers, find ever wider application in astrometric studies. Scientific cooperation with observatories of other countries became closer. Twenty foreign astrometrists visited the USSR during the period under review; at the same time, 7 Soviet astronomers visited observatories of China, Rumania, Yugoslavia and England. The Commission has performed a great work on preparing to the 10th Congress of the International Astronomical Union. A series of conferences were organized, in particular the 13th Astrometric Conference of USSR which was dedicated to problems of meridian and photographic astrometry.

D. Polozhentsev

[Abstracter's note: Complete translation]

S/035/61/000/009/002/036
A001/A101

AUTHOR: Zverev, M. S.

TITLE: On astrometric work at the Pulkovo Observatory from December 1955 to May 1958

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 9, 1961, 3-4, abstract 9A23 ("Tr. 14-y Astrometr. konferentsii SSSR, 1958". Moscow-Leningrad, AN SSSR, 1960, 31-40, Engl. summary)

TEXT: Section of fundamental astrometry. Absolute observations of 1,046 bright and weak stars have continued, as well as of the Sun and Polarissima (δ) by means of a great transit telescope and a vertical circle. 9,500 observations of α and 6,300 observations of δ were performed. A. A. Nemiro completed the investigation of a 100-year series of Pulkovo observations with the great transit telescope. Since 1956 observations of AGK3R stars from $+90^{\circ}$ to $+25^{\circ}$ have been conducted with a meridian circle, 19,000 observations were made. All the instruments are investigated. In 1956-1958 a series of test observations of right ascensions of 120 circumpolar stars were performed with a model of Sukharev horizontal meridian instrument. Several works were accomplished by the astro-

S/035/61/000/009/002/036
A001/A101

metric laboratory. A pendulum horizon was constructed, the model of horizontal meridian instrument was investigated. The following devices were constructed: a model of the transit telescope with a tube in the first vertical, a photoelectrical device for taking a reading of circles, an an interference examiner. In 1956 a computing laboratory was established. The catalog of ПФКСЗ (PFKSZ) was compiled with participation of the laboratory, and the working lists of AGK3R and КСЗ (KSZ) were prepared for Pulkovo, Nikolayev and Moscow, visible positions of PFKSZ are calculated, and meridian and other observations are processed. Section of astronomical constants and latitude service. Observations according to an enlarged program were conducted with a Freiberg zenith-telescope; 10,100 observations of pairs were made in 2.5 years. Since the mid-year of 1957 the work is incorporated into the program of IGY. Discussions of observations of 1904 - 1915 series (I. F. Korbut) and 1948 - 1955 series (V. I. Sakharov) have been completed. Since the beginning of IGY, observations have been conducted with a new ЗТЛ-180 (ZTL-180) telescope. In 1957 a zenith photographic telescope was mounted, regular observations are continued with a polar telescope (160 photographs), and its remote control was put into operation. Photographing of the Moon against the background of stars was organized with the purpose of determining ephemeris time. A latitude station was established at the town of

On astrometric work at the Pulkovo ...

S/035/61/000/009/002/036
A001/A101

Blagoveshchensk. Section of time service. The work is considerably expanded in connection with IGY. Since 1956 observations have been conducted with two photoelectric transit telescopes, 28,707 observations have been made. The number of receptions of time radio signals was increased to 6. The work was conducted on compiling the catalogs on the basis of observations of the time service. Thermal effects on results of astronomical observations were investigated. Sections of photographic astrometry and stellar astronomy. Photographic observations of galaxies were continued (first epochs were completed, over 500 plates were taken), as well as planetoids (106 plates) according to the KSZ plan with a normal astrograph. Uranus and Pluto were observed. A new investigation of the invisible satellite of 61 Cyg has been completed (A. N. Deych). Regular photographic (150 photographs) and visual observations of artificial Earth's satellites were carried out.

D. Polozhentsev

[Abstracter's note: Complete translation]

Card 3/3

ZVEREV, M.S.

Photographic vertical circle. Izv. GAO 22 no. 1:21-37 '60.
(MIRA 13:12)

(Transit circle)

S/025/61/000/003/006/012
A166/A127

AUTHOR: Zverev, M. S., Corresponding Member (see Ass.)

TITLE: Three questions - twenty-four answers

PERIODICAL: Nauka i zhizn', 28- no. 3, 1961, 23

TEXT: The author, a participant in the International Symposium "The Moon" comments on the significance of the photos of the reverse side of the Moon. He believes that the reverse side must differ somewhat from the visible side because of the absence of the solar eclipses there, which lead to extremely severe temperature changes on the Moon's visible surface (up to 150° in 1 hr). The photos should give valuable data on the structure and physical state of the surface layers. The Moon might eventually become a valuable intermediary space flight station which could be used for refueling of spaceships or might be considered an intermediary launching platform for space rockets in view of its lower gravity, and consequently, lower escape velocity. Rockets

Card 1/2

being launched from the reverse side would be shielded from the perturbing influence of the Earth's gravitation. A Mars-bound rocket could be launched vertically from the central portion of the reverse side at a speed of around 4.5 km/sec. Launching time would be most favorable when the Moon is in its last quarter for Earth. A Venus-bound rocket would be launched at approximately the same side when the Moon is in its first quarter. An astronomical observatory sited on the Moon would help to eliminate the distortion caused by the fluctuation of the air masses, experienced by observatories on the Earth. Such an observatory could initially be of the unstaffed robot type.

ASSOCIATION: Akademiya nauk SSSR (AS USSR)

S/035/62/000/009/005/060
A001/A101

AUTHOR: Zverev, M. S.

TITLE: New fundamental systems of stellar positions

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 9, 1962, 14, abstract 9A129 ("Tr. 3-go s"yezda Vses. astron.-geod. o-va, 1960", M., AN SSSR, 1962, 94 - 100, Discuss., 165 - 168)

TEXT: This is a short survey of work on compiling fundamental catalogues of stars. The FK3 catalogue, very accurate for epoch 1900, revealed by 1950 very marked systematic errors due to errors in proper motions; therefore, the work is going on since 1950 on improvement of the FK3. This work has been considerably delayed because of the insufficient amount of observational data, especially for the southern hemisphere. Of the other works, the following fundamental systems can be noted: N30 compiled by Morgan and Pu α 1 compiled by A. A. Nemiro. For improvement of fundamental systems, new observational data are needed which are obtained by both classical meridian methods and from observations with a Danjon astrolabe, from the data of time services and by other methods. Information is given on the progressing in compiling the catalogues of faint stars, and in particular on the ПФКС3 (PFKSZ) catalogue. It is planned to carry out anew observations for the catalogue of bright

Card 1/2

New fundamental systems of stellar positions

S/035/62/000/009/005/060
A001/A101

geodetic stars: this work is being conducted on the international scale. The southern hemisphere should be paid more attention; in particular, AS USSR is planning an expedition into the southern hemisphere for determination of absolute and relative coordinates of bright and faint stars from the list of Backlund-Hoff, compiled in Melburn. The development of astrometry depends on the increasing accuracy of observations, and at present several new instruments have been designed or proposed for determination of coordinates of luminaries.

D. Polozhentzev

[Abstracter's note: Complete translation]

VARINA, V.A.; GNEVYSHEVA, K.G.; ZVEREV, M.S.; IZVEKOVA, A.A.

Preliminary determination of diameter corrections of the Toepfer meridian circle. Izv.GAO 23 no.1:85-98 '62. (MIRA 16:12)

ZVEREV, M.S., otv. red.

[Transactions of the Astrometrical Conference of the U.S.S.R.] Trudy Astrometricheskoi konferentsii SSSR. Moskva, Izd-vo AN SSSR, 1963. 436 p. (MIRA 18:1)

1. Astrometricheskaya konferentsiya SSSR. 15th. Pulkovo, 1960. 2. Chlen-korrespondent AN SSSR.

ACCESSION NR: AR4042147 S/0269/64/000/006/0004/0004

SOURCE: Ref. zh. Astronomiya. Otdel'nyy vypusk, Abs. 6.51.31

AUTHOR: Zverev, M. S.

TITLE: Summary report of the presidium of the astrometry commission of the astronomy council of the Academy of Sciences of the USSR

CITED SOURCE: Tr. 15-y Astrometr. konferentsii SSSR, 1960. M.-L., AN SSSR, 1963, 7-19

TOPIC TAGS: astrometry, stellar position system, Earth rotation

TRANSLATION: An account of work conducted by the Astrometry Commission and its subcommittees during 1959-1960. Work was conducted in the solution of two basic contemporary problems of astrometry: 1) creation of fundamental systems of stellar positions and proper motions, and 2) study of rotation of Earth. On the first problem the following work was done: absolute determinations of coordinates of bright and faint fundamental stars, observation of Sun and major planets, determination of

Card 1/2

coordinates of weak reference stars, determination of right ascensions of circumpolar stars, determination of declinations of stars of the latitudinal programs, photographic observations of selected areas with galaxies and with FKSZ [Fundamental Catalog of Faint Stars] stars in the center, and photographic observations of selected minor planets. For solution of the second problem there were developed more than 10 subjects connected with the work of the time services, latitude services, and also certain other branches of astronomy. There were processed a series of observations obtained during the International Geophysical Year and the International Year of the Quiet Sun. In detail there are illuminated questions about the instruments available to astrometrists of different sections, about international communication and collective works, and on the prospects for the development of astrometry.

SUB CODE: AA ENCL: 00

Card 2/2

ACCESSION NR: AT4045941 S/0000/63/000/000/0027/0031

AUTHOR: Zverev, M.S.

TITLE: Program of meridian observations of latitude stars

SOURCE: AN SSSR. Astronomicheskiy sovet. Komissiya po izucheniyu vrashcheniya Zemli. Plenum. 1st, Kiev, 1962. Vrashcheniye Zemli (Rotation of the Earth); materialy* plenuma. Kiev, Izd-vo AN USSR, 1963, 27-31

TOPIC TAGS: astronomy, latitude start, latitude service, star catalogue, International Latitude Service, star, zenith telescope

ABSTRACT: Meridian observations of stars of latitude programs and the compilation of working catalogues from these observations have three principal objectives: 1. to make it possible to compute the latitudes of different observatories in a single system of declinations, making it possible to obtain the coordinates of the pole independently of systematic errors of declinations; 2. to provide a means for comparison of annual nonpolar changes in the latitudes of different observatories; and 3. to provide a means for studying the slow changes in latitude and the secular motion of the pole on the basis of observational data from different observatories. The means by which these objectives

are being achieved are discussed. Particular attention is given to the meridian program of latitude stars prepared at GAISh. This program includes the majority of stars from 12 zenith telescope programs and 8 zenith tube programs and contains about 3,000 stars. The number of stars in the various programs varies from 64 to 300. The GAISh list contains only 155 FK3 stars, of which only 13 are in the zone of declinations from +20 to 30° and only 17 in the zone from 70 to 80°. Such a small number of stars is obviously inadequate for a tie-in to the international basic list. Although there are 278 stars from the Catalogue of Faint Stars, which is close to the desired minimum (288), their distribution by right ascension, and especially declination, is extremely uneven. With respect to the fundamental stars in the GAISh list, in 50 areas of the sky measuring 1 hour in right ascension and 10° in declination (there are 144 such areas) there is not a single FK3 star, in 42 there are no stars from the Catalogue of Faint Stars, and in 18 there are no stars from either list. For each area to contain not less than 2 FK3 stars and 2 stars from the Catalogue of Faint Stars it would be necessary to add 154 stars and 115 stars from the Catalogue of Faint Stars to the GAISh list. At the same time, the author recommends the elimination of certain stars now in the list. The principles

ACCESSION NR: AT4045941

for preparing a working catalogue of declinations of latitude stars are discussed.

ASSOCIATION: none

SUBMITTED: 13Dec63 ENCL: 00 SUB CODE: AA

NO REF SOV: 004 OTHER: 001

3/3

Card

ZVEREV, M.S.

Soviet astronomers in Chile. Vest.AN SSSR 33 no.2:88-91 F '63.
(MIRA 16:2)

1. Chlen-korrespondent AN SSSR.
(Chile--Astronomy--Observations)

ZVEREV, M.S.; MURRI, S.A.

System of right ascensions of the Teopfer meridian circle.
Izv. GAO 23 no.4:16-22 '64. (MIRA 17:9)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4

L 08154-67 EWA(h)

ACC NR: AR6025334 SOURCE CODE: UR/0269/66/000/004/0011/0011

AUTHOR: Zverev, M. S.

TITLE: The beginning of Pulkovo astronomers work in Chile

SOURCE: Ref. zh. Astronomiya, Abs. 4.51.94

REF SOURCE: Tr. 16-y Astrometr. konferentsii SSSR, 1963. M.-L., Nauka, 1965, 18-25

TOPIC TAGS: astronomy, astronomic observatory, STAR, GALACTIC NEBULA, CELESTIAL MECHANICS

ABSTRACT: The astronomic expedition of the Pulkovo observatory in Chile has started work in the observatory of the National university Serro Kalan on the 12th October, 1962. The plan of studies includes observations of stars KSZ and southern basis stars, determination of the absolute constants of bright and faint stars and photographic observations of extragalactic nebulae, with the aim of subsequent determination of the stars own motions. The work is done jointly by soviet and chilean astronomers, with instruments of both countries (SSSR and Chile): meridional circle of Repsold (see ref.96) photographic vertical circle of Zeiss. Constructional features of the instruments are given. A high luminosity double meniscus astrograph has been sent to Chile and transfer of a large transit instrument is in preparation. A transit instrument of Zeiss is in operation. Work proceeds successfully. Brief information on the history of the Serro-Kalan observatory is given. [Translation of abstract].

Card 1/1 SUB CODE: 03 UDC: 5220:522.15(47:83)

BATURINA, G.D.; BEDIN, V.S.; VARINA, V.A.; GNEVYSHEVA, K.G.; ZVEREV, M.S.; IZVEKOVA, A.A.; MURRI, S.A.; NAUMOVA, A.A.; POLOZHENTSEV, D.D.

Observations of AGK3R stars with the Toepfer meridian circle at Pulkovo. Izv. GAO 23 no.4:3-15 '64. (MIRA 17:9)

ZVEREV, M.S.

Pulkovo astrometry specialists in Chile. Zem. i vsel. 1 no.1:71-77 Ja-F '65. (MIRA 18:7)

1. Chlen-korrespondent AN SSSR.

ZVEREV, M.S.

Determination of systematic errors in a fundamental catalog from meridian observations of a series of fundamental stars. Astron. zhur. 42 no.4:823-830 Jl-Ag '65.

(MIRA 18:8)

1. Glavnaya astronomicheskaya observatoriya AN SSSR.

1. ZVEREV, M.V.

2. USSR (600)

4. Geography & Geology

7. In the Upper reaches of the Tom'. Novosibirsk, Novosbgiz, 1951

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

ZVEREV, M.Ye.; KUPRYAKOV, B.G.; LYBIN, I.V.

Stand for agitating graduated flasks. Lab. delo 10 no.4:251-252 '64. (MIRA 17:5)

1. Gospital'naya terapevticheskaya klinika (zaveduyushchiy - prof. A.A.Kovelevskiy) Tomskogo meditsinskogo instituta.

Nonadhesive lining material for tire manufacture. N. Zveerev and *J. Rubber Ind.* (U. S. S. R.) 11, 290-70(Oct., 1934).—To a mixt. of casein 45, glycerol 45, and kaolin 10 parts add water to the required consistency. Apply 2-3 coatings on both sides of the cotton material. Dry 1.0-1.5 hrs. Then treat with HCHO. The total time is 6-7 hrs.

A. Pestoff

ZVEREV, N.

[Great possibilities] Bol'shie vozmozhnosti. Moskva, Gos. izd-vo polit. lit-ry, 1957. 61 p. (MIRA 11:9)
(Kazakhstan--Stock and stockbreeding)

Zverev, N. - "The Petr. Muzyka Combiner (At the expense of MTS, Lozov rayon of the Pavlodarsk oblast)," Summary. Kazakhstan,12, 1948, p. 161-75.

SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

AZARKH, M.; ZVEREV, N.

"Dinamo" production for foreign markets. Vnesh.torg. 43 no.3: 30-31 '63. (MIRA 16:4)
(Moscow--Electric equipment industry)

SIDOROV, V.; ZVEREV, N.

For the best production in the world. Vnesh. torg. 41 no.8:34 '61. (MIRA 14:8)

(Moscow—Electric industries)
(Russia—Commerce)

AZARKH, M.; ZVEREV, N.

Many countries know the "DK" trade-mark. Vnesh. torg. 42 no.3:37-39 '62. (MIRA 15:3)

(Electric industries)

ASHKENAZI, Yelena Konstantinovna, kand.tekhn.nauk. Prinimali uchastiye: POZDNYAKOV, A.A., inzh.; KRAVTSOV, B.A., inzh.; KACHESOV, A.N., inzh.; BUROV, M., student; ZVEREV, N., student; RAZUVAYEV, V., student; ROBUSH, O., student; SAMSONOVA, Ye., student. KUSHELEV, N.G., red.; GVIRTS, V.L., red.izd-va

[Anisotropy of mechanical properties of some glass plastics; verbatim report of a lecture] Anizotropiia mekhanicheskikh svoistv nekotorykh stekloplastikov; stenogramma lektsii. Leningrad, Leningr. Dom nauchno-tekhn.propagandy, 1961. 62 p. (MIRA 14:12)
(Anisotropy) (Glass reinforced plastics)

ZVEREV, N.B., inzh.; ZAKATALOVA, A.I., inzh.; BROMBERG, Ye.M., kand. tekhn.nauk, red.; FILIPPOVA, L.S., red.; BOBROVA, Ye.N., tekhn. red.

[Experience in the use of a continuous rail track in the U.S.S.R.] Opyt primeneniia besstykovogo puti v SSSR. Moskva, Transzheldorizdat, 1963. 50 p. (MIRA 17:1)

ZVEREV, N.B., inzh.

Experimental testing of the performance of long welded rail tracks. Trudy TSNII MPS no.224:46-60 '62. (MIRA 16:6)
(Railroads—Track—Testing)

ZVEREV, N.B., inzh.

Joint assembly of long rail lengths. Trudy TSNII MPS no.224: 97-120 '62. (MIRA 16:6)

(Railroads--Rails)

MARKAR'YAN, M.A., kand.tekhn.nauk [deceased]; ZVEREV, N.B., inzh.

Resistance to displacements of continuous tracks. Trudy TSNII MPS no.224:19-45 '62. (MIRA 16:6)

(Railroads—Track)

KRUGMAN, K.I.; ZVEREV, N.B., nauchno-tekhn. red.; RODOVSKAYA, M.V., red. GROMOV, Yu.V., tekhn. red.

[Continuous track; bibliography of Russian and foreign publications 1884-1960] Besstykovoi put'; bibliograficheskii ukazatel' otechestvennoi i inostrannoi literatury, 1884-1960. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 85 p. (MIRA 15:2)

1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya. TSentral'naya nauchno-tekhnicheskaya biblioteka.
(Bibliography--Railroads--Track)

ZVEREV, N.B., inzh.

Continuous track on the railroads of Europe and America. Put' i put.khoz. 5 no.8:47-48 Ag '61. (MIRA 14:10)
(Railroads—Track)

ZVEREV, N.; MAZITOV, B.[translator]; TURKEBAYEV, N., red.; KUZ'MIN, Ye., red.

[Guide to the Exhibition of the National Economy of the Kazakh Soviet Socialist Republic] Putevoditel' Narodnokhozialstvennoi vystavki Kazakhskoi Sovetskoi Sotsialisticheskoi Respubliki. Almaty, 1961. 156 p. [In Kazakh and Russian] (MIRA 18:5)

1. Alma-Ata. Narodnokhozyaystvennaya vystavka Kazakhskoy Sovetskoy Sotsialisticheskoy Respubliki.

ZVEREV, Nikolay Borisovich, inzh.; PETRO'A, V.L., red.

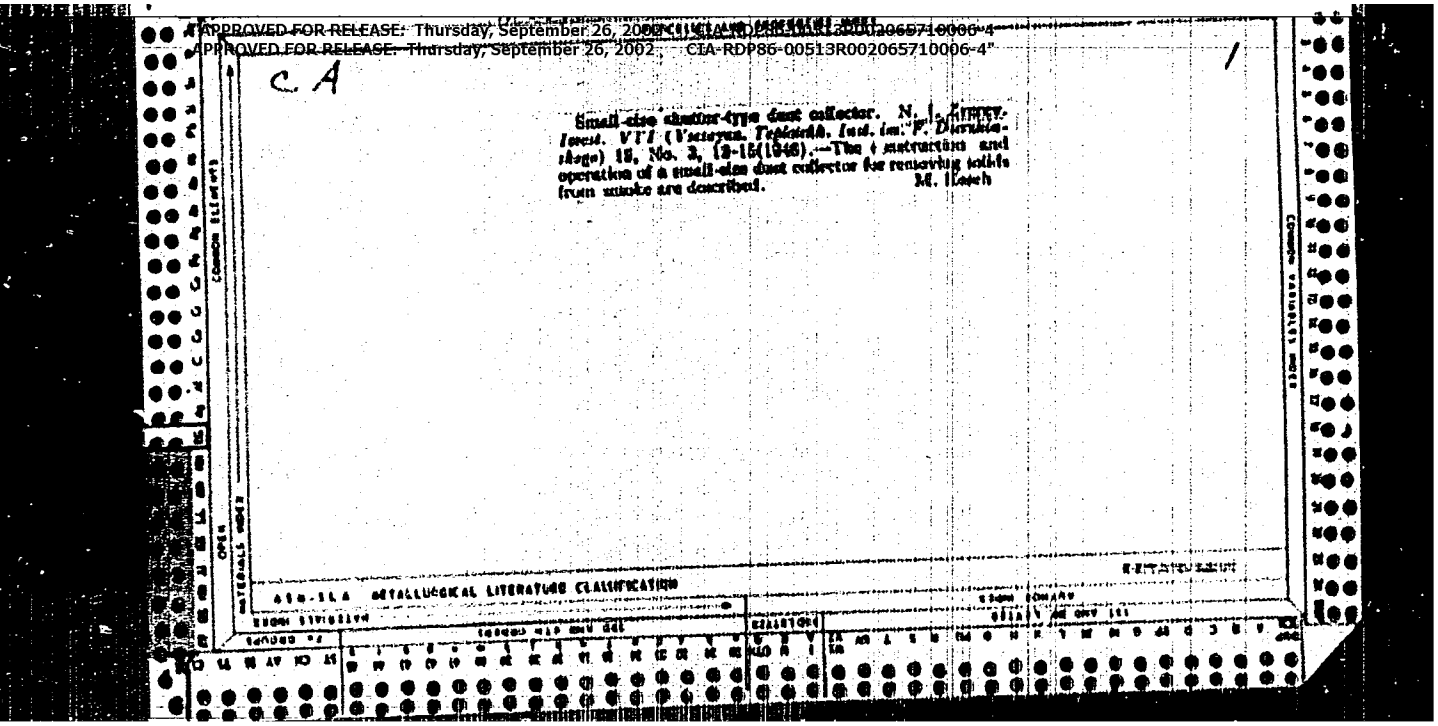
[Continuous rail track with various types of fastenings] Besstykovyi put' so skrepleniiami razlichnykh tipov. Moskva, Transport, 1965. 29 p. (MIRA 18:3)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

C A

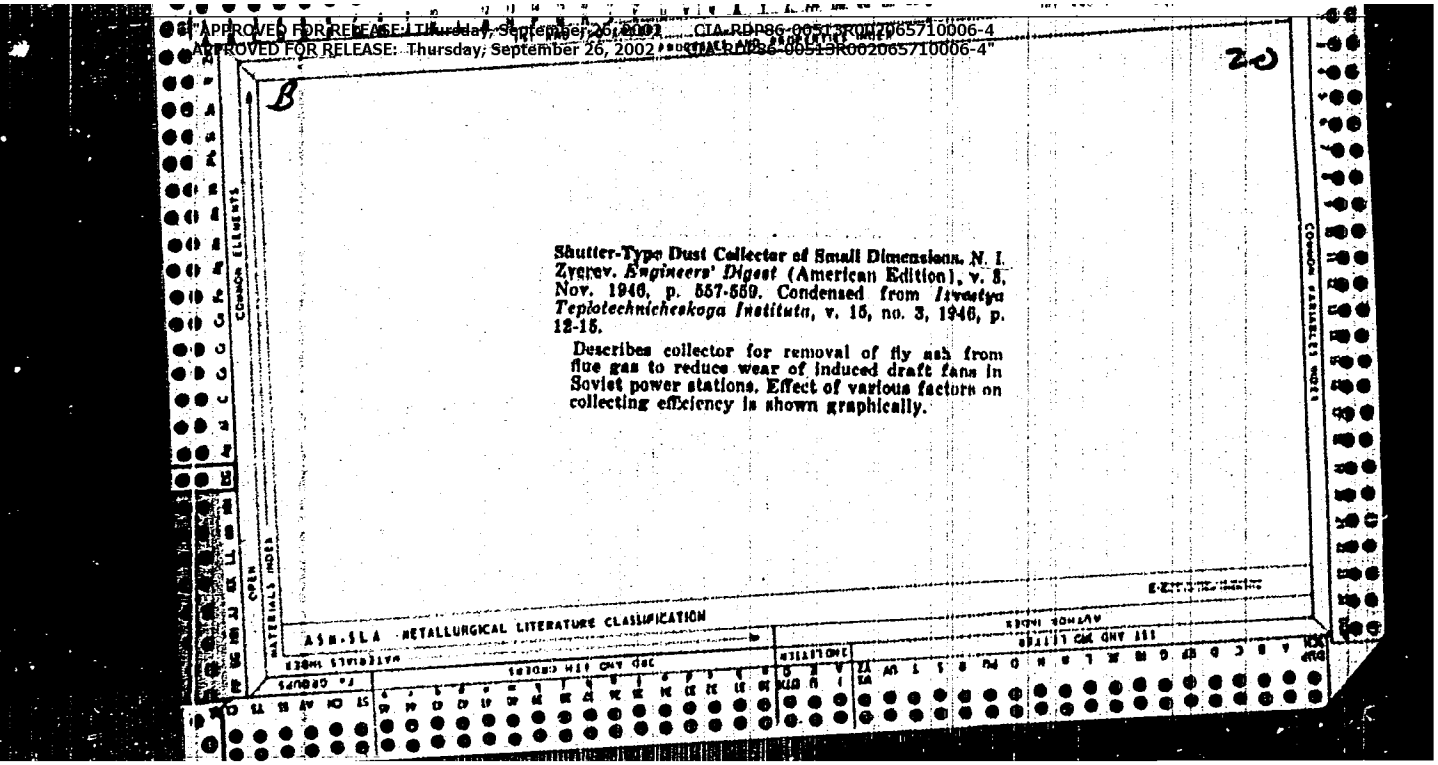
1

Small-size shutter-type dust collector. N. I. Kitaev. *Izvest. VTI* (*Vestnik. Tekhnikh. Inst. im. F. Dzerzhinskogo*) 15, No. 3, (3-15(1946).—The construction and operation of a small-size dust collector for removing solids from smoke are described. M. Hasch



1190. SMALL-SIZE SHUTTER-TYPE DUST COLLECTOR. Zygray, N. I. (Izvest. VTI (Vsesoyuz. Teplotekh. Inst. Im.F. Dzerzhinskogo), 1946, 15, No.3, 12-15; Chem. Abstr. 1946, 40, 6303).

The construction and operation of a small-size dust collector for removing solids from smoke are described.



B

20

Shutter-Type Dust Collector of Small Dimensions. N. I. Zyrev. *Engineers' Digest* (American Edition), v. 8, Nov. 1946, p. 557-559. Condensed from *Izvestya Teplotechnicheskoga Instituta*, v. 15, no. 3, 1946, p. 12-15.

Describes collector for removal of fly ash from flue gas to reduce wear of induced draft fans in Soviet power stations. Effect of various factors on collecting efficiency is shown graphically.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

ZVEREV, I. F. Cand Tech Sci

Dissertation: "Louver-Type Ash Trap." All-Union Order of the Labor Red Banner Heat Engineering Inst imeni F. E. Dzerzhinskiy, 2 Jul 47.

SO: Vechernyaya Moskva, Jul, 1947 (Project #17836)

ZVEREV, M.S.; POLOZHENTSEV, D.D.

Preliminary general catalog of fundamental faint stars with declinations from + 90° to - 20° (PFKSZ). Trudy Glav. astron. obser. Ser. 2 72:5-76 '58. (MIRA 13:3)
(Stars--Catalogs)

MARGARITOVA, N.F., ZVEREV, M.P.

polymerization kinetics of 2-chloro-1,3-butadiene on the ω-form of polychloroprene. Ukr. khim.zhur. 23 no.6:734-737 '57. (MIRA 11:1)

1.Dnepropetrovskiy khimiko-tekhnologicheskiy institut im. Dzerzhinskogo i Moskovskiy institut tonkoy khimicheskoy tekhnologii im. Lomonosova.
(Polymerization) (Chloroprene)

BONDAREVA, V.I.; ZVEREV, M.D.

Experimental infection of foxes and jackals with the cestode Multiceps multiceps. Trudy Inst. zool. AN Kazakh. SSR 7:237-240 '57. (MLRA 10:9)

(Tapeworms) (Parasites--Jackals) (Parasites--Foxes)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

MARGARITOVA, M.F.; ZVEREV, M.P.

Copolymerization of 2-chlorobutadiene-1,3 with acrylonitrile. Ukr. khim. zhur. 23 no.1:75-78 '57. (MIRA 10:6)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut imeni F.E. Dzerzhinskogo, Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova.
(Polymerization) (Butadiene) (Acrylonitrile)

MICHURINA, G.A.; ZVEREV, M.P.; BICHKOV, N.A.; [illegible] V.S.

Production of polypropylene fibers from a polymer solution. Khim. volok. no.4:18-20 '63. (MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

ZVEREV, M.

AUTHOR: Margaritova, M. F. and Zverev, M. P. 73-1-13/26

TITLE: Copolymerisation of 2-Chlorobutadiene-1,3 and Acrylonitrile. (Sovmestnaya Polimerizatsiya 2-Khlorbutadiyena-1,3 s Akrilonitrilom.)

PERIODICAL: Ukrainiskiy Khimicheskiy Zhurnal, 1957, Vol.23, No.1, pp. 75 - 78 (USSR).

ABSTRACT: Investigationswere carried out on the mechanism of the above reaction. 4 sets of tests are discussed with starting solutions of varying monomer concentrations. Results of these tests are tabulated in table 1. The experiments were carried out in the presence of 2% benzoyl peroxide. It can be seen that the depth of polymerisation decreases with increasing acrylonitrile content in the starting mixture and the produced copolymers have a higher 2-chlorobutadiene-1,3 content. This shows the higher activity of 2-chlorobutadiene-1,3. On the basis of the obtained data the copolymerisation constants were calculated and it was found that α(for 2-chlorobutadiene-1,3) = 6.22; β(for acrylonitrile) = 0.15. Diagram 1 illustrates the compositions for 2-chlorobutadiene-1,3 - acrylonitrile, the composition of the starting mixture, the differential composition of the polymers, the integral

Card 1/2

ZVEREV, M.P.; KOSTINA, T.P.; POLOVINKINA, L.A.

Strengthening of fibers made from crystalline polypropylene. Khim. volok. no.4:2-6 '65. (MIRA 18:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volkona.

ZVEREV, M.P.

Production of fibers from polyolefins. Khim. volok. no. 6:3-9 '60. (MIRA 13:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Textile fibers, Synthetic) (Olefins)

ZUBKOV, A.F.; ZUBENKO, V.S.; KUSTINA, T.F.

Dependence of the thermomechanical properties of polypropylene on its structural composition. Part 2. Vysokom. soed. 2 no. 11:1620-1624 N '60. (MIRA 13:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Propene)

ZUBOV, P.I.

Plasticizer - filler interaction. Koll. zhur. 22 no. 6:756-757 N-D '60. (MIRA 13:12)

1. Institut fizicheskoy khimii AN SSSR i Institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova, Moskva.
(Fillers (In paper, paint, etc.)) (Plasticizers)

ZVEREV, M. P.

ZVEREV. M. P. - "Investigation of the process of plastification of divinyl-styrol rubbers". Moscow, 1955. Min Higher Education USSR. Moscow Inst of Fine Chemical Technology imeni M. V. Lomonosov. (Dissertation for the Degree of Candidate of Chemical Sciences)

SO: Knizhnaya Letopis' No 46, 12 November 1955. Moscow

ZVEREV, M.P.; KLIMENKOV, V.S.

Some thermomechanical properties of isotactic polypropylene. Vysokom.soed. 1 no.5:758-760 My '59. (MIRA 12:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Propene)

AUTHORS: Zverev, M.P.; Yeroshkina, Ye.A.; Zubov, P.I.

TITLE: The Structure of Gels (Stroyeniye studney). 14. The Effect of the Nature of Plasticizer on the Physical-Mechanical Properties of Filled Divinylstyrene Rubber (14. Vliyaniye prirody plastifikatora na fiziko-mekhanicheskiye svoystva napolnennogo divinilstirol'nogo kauchuka)

PERIODICAL: Kolloidnyy zhurnal, 1958, vol XX, Nr 3, pp 329-331 (USSR)

ABSTRACT: It is known that divinylstyrene rubber, vulcanized without filler and in the presence of non-polar plasticizers, has better mechanical properties than rubbers plasticized by polar substances. In the article, these properties are investigated in filled rubbers. Figure 1 shows the properties of vulcanizates SKS-30A at a deformation speed of 50 and 500 mm/min. It is evident that the rubbers with polar plasticizers have better mechanical properties than those with non-polar substances. This result is explained by the blocking of the polar groups of the filler by the polar plasticizers, facilitating the adsorption of macromolecules on the surface of its particles.

The Structure of Gels. 14. The Effect of the Nature of Plasticizer on the Physical-Mechanical Properties of Filled Divinylstyrene Rubber

There are 4 graphs and 1 Soviet reference.

ASSOCIATION: Fiziko-khimicheskiy institut imeni L.Ya. Karpova (Physical-Chemical Institute imeni L.Ya. Karpov)
Dnepropetrovskiy khimiko-tekhnologicheskiy institut (Dnepropetrovsk Chemical-Technological Institute)

SUBMITTED: November 21, 1957

Card 2/2

1. Rubber—Properties—Analysis

87476

S/183/60/000/006/001/005
B020/B058

15.5560

AUTHOR: Zverev, M. P.

TITLE: On the Problem of the Production of Fibers From Polyolefins

PERIODICAL: Khimicheskiye volokna, 1960, No. 6, pp. 3-9

TEXT: This is a review of publications on the production and properties of polyolefins, the fibers made from them, as well as the problems connected with the shaping of the fibers, and the modification of their properties, with a view to extending their range of application. The synthesis of polyethylene by means of the Ziegler catalyst as well as the stereoregular polypropylene showed that synthetic fibers can be produced, having valuable physical and chemical properties without containing polar groups or hydrogen bonds. This is explained by the fact that these materials have a high degree of crystallinity with a high melting point of the crystals. The specific weights and melting points of the poly-α-olefins are listed in Table 1. It may be seen from Table 1 that polyethylene can be produced according to the ionic and radical mechanisms, while the remaining crystalline polymers can only be produced according to the ionic mechanism. The (high-density) polyethylene produced according to the radical mechanism

Card 1/3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4

On the Problem of the Production of Fibers From Polyolefins

S/183/60/000/006/001/005
B020/B058

is branched, while the (low-density) one produced according to the ionic mechanism is a linear polymer. The degree of crystallinity of high-density polyethylene is not higher than 60%, while that of the low-density polyethylene amounts to from 65 to 85%. Complex catalysts (halides of the metals of the IVth to VIIth groups, alkyls of the metals of the IInd and IIIrd groups) and chromium oxide applied on aluminum silicate are used for polymerizations according to the ionic mechanism. In the polymerization of the α-olefins on a stereospecific catalyst, several linear isomers can be formed, i.e., isotactic, syndiotactic, and atactic ones. The properties of the synthetic fibers are determined by the properties of the polymer, which on their part depend on the chemical character of the monomer and the polymerization conditions. The ratio between viscosity of the melt and the molecular weight of the polymer is described with the aid of the melting index which is 0.7 for linear polyethylene, representing the lower boundary of workability. The upper boundary of workability is characterized by a melting index of 0.2. Table 2 gives data on the degree of polymerization, the upper limit of the melting index of polyolefins and the strength of fibers made from them. Figs. 1 and 2 give data on the effect of ultraviolet irradiation on monofilaments from polyethylene and polypropylene. The

effect of high-energy irradiation becomes apparent by destruction and simultaneous cross-linking of the macromolecules. The forming of fibers from thermoplasts is usually made from the melt, monofilaments with a diameter of from 0.004 to 0.020 mm being obtained from polyethylene and polypropylene, and filament fibers with a diameter of from 0.003 to 0.008 mm from polypropylene, a screw-type extruder of special design being used. The physical and mechanical properties of fibers on the basis of various polymers are shown in Table 3. V. V. Yur'yev et al (Ref. 29), S. E. Bresler et al (Ref. 27), V. S. Klimenkov and T. F. Kostina (Ref. 50), S. A. Nechayeva and Z. A. Rogovin (Ref. 55) are mentioned. There are 2 figures, 3 tables, and 61 references: 23 Soviet, 19 US, 9 British, 4 German, 2 French, and 4 Italian.

ASSOCIATION: VNIIV (All-Union Scientific Research Institute of Synthetic Fibers)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4

KASYANOV, I.S. (Moskva); SVIRIDOV, N.K. (Moskva); ZHUKOV, M.P. (Moskva)

Comparative biological effectiveness of the action of γ-radiation from 25 Mav. betatron and 180 kw X-radiation. Trudy TSentr. nauch.-issl. inst. rentg. i rad. 11 no.1:36-41 '64.
(MIRA 18:11)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

LAGUNOVA, I.G. (Moskva); ZVEREV, M.P. (Moskva)

Methodology of radiotherapy of sarcomas of the long tubular bones by means of 25 Mev. betatron. Trudy Vsesoi. nauch.-issl. inst. rentg. i rad. 11 no.1:165-171 '64. (MIRA 18:11)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

ZVEREV4M8S8

600

1. ZVEREV, M.S.

2. USSR (600)

"Catalog of faint stars," Astron. Zhur., 17, No 5, 1940. Astronomical Institute imeni Shternberg. (submitted May 1940, Moscow)

9. [redacted] Report U-1518, 23 Oct 1951.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

ZVEREV, M. S.

Zverev, M. S. "Fundamental astrometry," in symposium: Astronomiya v SSSR za tridtsat' let, Moscow-Leningrad, 1948, p. 15-32

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

ZVEREV, M. S.

ZVEREV, M. S. "On a calculation of the influence of short-period members of nutations," Soobsch. Gos. astron. in-ta im. Shternberga, Nos. 20-21, 1948, p. 14-19.

SO: U-3042, 11 March 53. (Letopis 'Zhurnal 'nykh Statey, No. 7 1949)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

ZVEREV, M.S.

Zverev, M.S. "Annual changes in the coefficients of Mayer's formula", Soobshch. gos. astron, in-ta im. Shternberga, Nos. 20-21, 1948, p. 20-23.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 7 1949) .

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

ZVEREV, M. S.

ZVEREV, M. S. "Tables of the annual changes in the Bessel numbers a, b, c, d, a', b', c', d'", Soobshch. Gos. astron. in-ta im. Shternberga, Nos. 20-21, 1948, p. 24-42.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 7 1949).

ZVEREV, M. S.

Zverev, M. S. - "A. A. Mikhaylov and his work in astronomy", Sbornik nauch.-tekhn. i priozvod. statey po geodezii, kartografii, topografee, aersoyemke i gravimetrii, Issure 21, 1948, pp. 15-18.

SO: U-4110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19, 1949).

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

ZVEREV, M. S.

Jul/Aug 48

USSR/Physics
Astronomy
Transits

"Selection of Stars for Observations With Transit Instruments," M. S. Zverev, 13 pp

"Astron Zhur" Vol XXV, No 4

Treats subject under: (1) time and azimuth corrections; (2) optimum conditions for determining azimuth; (3) optimum conditions for determining time correction; (4) Aurell graphs; (5) maximum values of Bessel formula coefficients; (6) choice of stars for relative determination of right ascension.

14/49T105

AVERY DR. S.

Time Measurements

GAISh Time Service 1941-1944; Trudy GAISh 18 no. 1, 1949

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

ZVEREV, M. S.

Time Signals

Summary moments of rhythm time signals for the second half of 1941; Trudy GAISh 18 no. 1, 1949.

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

ZVEREV, M. S.

Time Measurements

Study of astronomical observations results of GAISh time service 1941-1944; Trudy GAISh 18 no. 2, 1950.

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

ZVEREV, M. S.

Stars - Observations

Working list of stars for observation on transit instruments of the time service in latitudes ±50° - ±60°. Trudy GAISh 18 no. 2, 1950.

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

ZVEREV, M. S. (Editor)

"Reports of the State Astronomy Institute imeni P. K. Shternberg", Moscow Order of Lenin State University imeni M. V. Lomonosov, Moscow University Press, 36 pp, No. 41, 1950.

ZVEREV, M.S. PA156T6

USSR/Astronomy - Stellar Dynamics
Stellar Measurements Jan/Feb 50

"Determination of the Declination of Stars From Observations on Zenith Telescopes, " S.V. Drozdo, M.S. Zverev, State Astr Inst imeni P. K. Shternberg, Poltavsk Gravimetric Obs, Ukrainian Affiliate, Acad Sci, USSR, 6pp

"Astron Zhur" Vol XXVII, No 1

Collective work on creation of new system of star declinations and accurate determination of most refined natural movements of stars will improve practical investigation into the movement of the earth's poles. Submitted Aug 49.

ZVEREV, M.S., red.

[Catalog of weak stars; list of selected sectors of the sky with non-galaxial nebulae] Katalog slabykh zvezd; spisok izbrannykh ploshchadok neba s vnegalakticheskimi tumannostiami. Moskva, 1952. 14 p. (MIRA 12:9)

(Nebulae)

ZVEREV, Mitrofan Prof., Dr.

"Il Catalogo Delle Stelle Deboli -- Un Problema Astrometrico," 1

one of a group of papers presented by delegates from the USSR at the meeting of the International Astronomical Union in Rome, September 1952, a paper bound copy printed in Moscow in 1952.

ON FILE IN LIBRARY

ZVEREV, M.S.

[Catalog of weak stars as an astronomical problem; report at the 8th Congress of the International Astronomical Union. Rome 1952] Katalog slabykh zvezd kak astrometricheskaia problema; doklad na VII s"ezde Mezhdunarodnogo astronomicheskogo soiuza, Rim, 1952. Moskva, Izd-vo Akad.nauk SSSR, 1952. 78 p. [Microfilm] (MLRA 8:9)

(Stars--Catalogs)

ZVEREV, M.S.; TSESEVICH, V.P.

Period of AQ Lyrae. Per.zvezdy 9 no.1:69-73 S'52. (MLRA 8:10)

1. Odesskaya astronomicheskaya observatoriya
(Stars, Variable)

ZVEREV, M.S.

Fundamental astrometry. Usp.astron.nauk 6:3-143 '54. (MLRA 7:8)
(Astrometry)

Stars - Catalogs; Stars - Classification

List of stars in the catalog of weak stars. Astron. zhur. 29 no. 1, 1952. Gos. Astronomicheskiy IN-T im. P. K. Shternberga rcd. 21 May 1952.

SO: Monthly List of Russian Accessions, Library of Congress, May, 1952 [redacted], Uncl.

ZVEREV, M. S.; TSESEVICH, V. P.

Stars, Variable

Period of AQ Lyrae, Astron. tsir. No. 125, 1952.

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

"Star Catalog FKSZ in the FK3 System Complied From Observations on the Moscow Transit Instrument in 1940-41," Soobshch. Gos. astron. in-ta im. P. K. Shternberga, No 97-98, pp 3-46, 1954.

In 1939 the Third Astrometric Conference at the Shternberg National Astronomic Institute (GAISh) ordered a star catalog FKSZ compiled, containing stars of 7.5-8.5 magnitudes of K and M spectral classes and with proper motions not exceeding 0.04". This catalog was approved by the Fourth Astrometric Conference in 1939 and it was adjusted to be used with the system FK3. Observations were carried out at Pulkovo, Moscow, Kazan, Tashkent and Odessa. The catalog contains 545 stars for the equinox 1950.0 and for the times of observations. (RZhAstr, No 11, 1955).

SO: Sum. No. 812, 6 Feb 1956.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

"Catalog of 180 Declinations of Zenithal Stars at Pulkovo Observatory", Soobshch. Gos. astron. in-ta im. P. K. Shternberga, No. 97-98, pp 47-55, 1954.

Latitude variation of Pulkovo Observatory was investigated. Pulkovo zenithal stars were simultaneously observed by the Pulkovo zenith telescope and Moscow transit instrument. A periodic variation of declination of a 0.2" amplitude could be noticed. (RZhAstr, No 11, 1955)

SO: Sum No. 812, 6 Feb 1956.

"Tables of sec δ and tan δ With Annual Variations for 645 Stars FKSZ North of -30 Declination (for 1950.0)", Soobshch. Gos. astron. in-ta im. P. K. Shternberga, No 97-98, pp 56-72, 1954.

These tables facilitate the processing of transit observations of FKSZ stars. They contain the No of the star according to FKSZ and roughly approximated coordinates α and δ, sec δ, Δ sec δ, tan δ, Δ tan δ up to 0.001 accuracy (RZhAstr, No 11, 1955)

SO: Sum No 812, 6 Feb 1956.

ZVEREV, M.S., redaktor; OL', A.I., redaktor; KIRNARSKAYA, A.A., tekhnicheskiy redaktor

[Proceedings of the 11th Astrometrical Conference of the U.S.S.R., Pulkovo, May 24-26, 1954.] Trudy 11-i astronomicheskoi konferentsii SSSR; 24-26 maia 1954 g. Leningrad, Izd.Glav.astronomicheskoi observatorii v Pulkove, 1955. 269 p. (MLRA 9:2)

1. Vsesoyuznaya astrometricheskaya konferentsiya. 11th, Pulkovo, 1954. 2. Chlen-korrespondent AN SSSR (for Zverev).
(Pulkovo--Astrometry--Congresses)

SOV/35-59-11-8777

3.1410

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, Nr 11, p 12, (USSR)

AUTHORS: Zverev, M.S., Timashkova, G.M.

TITLE: The Next Problems of Transit Astrometry

PERIODICAL: Tr. 13-y Astrometr. konferentsii USSR 1956, Moscow-Leningrad, AS USSR, 1958, Nr 35 - 46. Diskus; 46 (res.Engl.)

ABSTRACT: Various studies are enumerated, and the merits of observatories are noted in the field of exact determination of coordinates of stars , observations of the sun, photographic and visual observations of the moon and large planets. The visual observations of bright stars will expediently limit by stellar magnitudes 6.0 -6^{m}.5. The weaker stars can be observed better with the help of photographic instruments. The wish is expressed that the catalogue of geodesic stars (CGS), as well as the stars of the FK3 supplement be re-observed. The observatories of the northern hemisphere dealing with observations of the reference weaker stars, for photographic zonal catalogues AGKZ, have started working with success. It is desirable to extend this type of work to the southern hemisphere as well. Special

Card 1/2

The Next Problems of Transit Astrometry

attention is paid to new programmes of the meridional circles. Two programmes are proposed: listing the latitudinal stars and listing the bright stars. The second programme is being considered in detail in two versions with a limiting magnitude of stars $6^m.0$ and $6^m.5$ with a declination from -10° to $+90^\circ$. To this programme lists of FK3 stars, (as reference stars) FK3 supp; KGZ, list of stars Blau as well as the 2nd and 3rd parts of the list of Parenago (it is expedient to observe the 1st part of the list photographically) are to be added. The total number of stars in the two versions of the programme of bright stars totals about 4,332 and 5,730 stars. Graphs of the distribution of stars over right ascension are cited. The authors give their preference to the first version of the programme. To the afore-mentioned programmes can be added lists of double stars, stars for observing through zenith telescopes and several others. The further development of transit-astrometry, the heightened accuracy of observations and the simplification of the processing will result from mastering a horizontal meridional instrument of the Sukharev or Atkinson type, the introduction into observation practice of modern photo-electric methods and the utilization of a new calculation technique for processing the observations.

K.G. Gnevysheva

YESIPOVA, M.I.; ZVEREV, M.S.

Observing the brightness of the rocket carrier of the third artificial earth satellite at the Pulkovo Observatory. Biul. sta.opt.nabl.isk.sput.Zem. no.4:12-16 '59.
(MIRA 13:6)

1. Glavnaya (Pulkovskaya) astronomicheskaya observatoriya AN SSSR.
(Artificial satellites--Tracking)

3(1)

AUTHOR: Zverev,M.S., Predsedatel' Astrometricheskoy komissii Astrosoveta AN SSSR (President of the Astronomical Committee of the Astronomic Council AS USSR)

SOV/33-36-1-29/31

TITLE: Remarks on the Chronicle of V.V.Podobed "Fourteenth Astronomical Conference"

PERIODICAL: Astronomicheskiy zhurnal, 1959, Vol 36, Nr 1, p 194 (USSR)

ABSTRACT: The author criticizes the incompleteness of the above report of Podobed (Astronomicheskiy zhurnal, 1958, Vol35, Nr 5, p 822). He states that Podobed has not mentioned the reports of Chang Yu-chu, Professor, Director of the Observatory on the Purpur Hill near Nanking; of the President of the Astronomical Assembly of Poland, Director of the Observatory of Poznan'; nor the assistance of Professor Ye.V.Rybka, Director of the Observatory of Kraków; or the role of the astronomers V.I.Sakharov and I.F.Korbut of Pulkovo during the production of new zenith-telescopes.

SUBMITTED: November 17, 1958

Card 1/1

ZVEREV, M.S.

F.N. Krasovskii at the Moscow University. Trudy MIIGAIK no.37:81-84 '59. (MIRA 15:5)
(Krasovskii, Feodosii Nikolaevich, 1878-1948)

PHASE I BOOK EXPLOITATION SOV/5721

Vsesoyuznaya astrometricheskaya konferentsiya.

Trudy 14-y Astrometricheskoy konferentsii SSSR, Kiyev, 27-30 maya 1958 g. (Transactions of the 14th Astrometrical Conference of the USSR, Held in Kiyev 27-30 May 1958) Moscow, Izd-vo AN SSSR, 1960. 440 p. Errata slip inserted. 1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Glavnaya astronomicheskaya observatoriya (Pulkovo).

Resp. Ed.: M. S. Zverev, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: N. K. Zaychik; Tech. Ed.: R. A. Zamarayeva.

PURPOSE: The book is intended for astronomers and astrophysicists, particularly those interested in astrometrical research.

COVERAGE: This publication presents the Transactions of the 14th Astrometrical Conference of the USSR, held in Kiyev 27-30 May 1958. It includes 27 reports and 55 scientific papers presented at the plenary meeting of the Conference

Card 1/16

and at the special sectional meetings. An appendix contains the resolutions adopted by the Conference, the composition of the committees, the agenda, and the list of participants at the Conference. A brief summary in English is given at the end of each article. References follow individual articles. The Presidium of the Astrometrical Committee (Chairman M. S. Zverev), which supervised the preparation of this publication, expresses thanks to the members of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskiy, A. B. Onegina, and Kh. I. Potter.

TABLE OF CONTENTS:

SCIENTIFIC REPORTS AND PAPERS

PHASE I BOOK EXPLOITATION SOV/4374

Astronomiya v SSSR za sorok let 1917 - 1957; sbornik statey (Forty Years of Astronomy in the USSR, 1917-1957; Collection of Articles) Moscow, Fizmatgiz, 1960. 728 p. 2,000 copies printed.

Ed.: L. V. Samsonenko; Tech. Ed.: N. A. Tumarkina; Editorial Board: A. A. Mikhaylov (Resp. Ed.), M. S. Zverev, P. G. Kulikovskiy, A. G. Masevich, E. R. Mustel'; V. V. Sobolev, and M. F. Subbotin.

PURPOSE: This book is intended for astronomers, astrophysicists, and others interested in the history of astronomy in the USSR.

COVERAGE: This major work on the history of astronomy in the USSR consists of two parts, review articles and bibliographies. Part I contains a collection of articles on various facets of astronomical research written by leading Soviet specialists in the field. Chief emphasis is placed on developments of the last ten years. The research activities and equipment of 23 Soviet observatories and institutes are described, and the leading scientific personalities of each mentioned. The geographic coordinates and elevations of 41 astronomical centers are listed. Individual articles discuss problems dealing with

theoretical astronomy, minor planets, comets and meteors, the physics of stellar atmospheres and gaseous nebulae, cosmogony, and radioastronomy. Part II contains a comprehensive bibliography (over 9,500 items) of Soviet astronomical publications from 1917 to 1957. An author index lists some 1,800 astronomers with references to their contributions. The bibliographic part was compiled by N. B. Lavrova, N. D. Petrova, Ya. G. Perel', and T. A. Zalkind.

TABLE OF CONTENTS:

PART I. COLLECTION OF ARTICLES

S/035/61/000/009/001/036
A001/A101

AUTHOR: Zverev, M. S.

TITLE: Report of the Presidium of the Astrometric Commission of the Astronomical Council, AS USSR

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 9, 1961, 3, abstract 9A22, ("Tr. 14-y Astrometr. konferentsii SSSR, 1958". Moscow-Leningrad, AN SSSR, 1960, 11-18. Discuss., 18, Engl. summary)

TEXT: Development of astrometric work in the USSR during 1955-1958 is characterized by the wide participation of the observatories in IGY. Investigations are conducted according to co-ordinated programs and methods. Artificial Earth's satellites are observed photographically and visually. The works on the catalog of weak stars and meridian observations are continued. A decision was adopted on organization of an expedition to the southern hemisphere. During the recent years, observations of the Moon have developed with the purpose of determining its shape and ephemeris time. The observatories were complemented with new equipment: zenith telescopes ЗТЛ-180 (ZTL-180), zenith photographic

Card 1/2

S/035/61/000/009/001/036
A001/A101

tubes, etc. Modern computing techniques, including electronic computers, find ever wider application in astrometric studies. Scientific cooperation with observatories of other countries became closer. Twenty foreign astrometrists visited the USSR during the period under review; at the same time, 7 Soviet astronomers visited observatories of China, Rumania, Yugoslavia and England. The Commission has performed a great work on preparing to the 10th Congress of the International Astronomical Union. A series of conferences were organized, in particular the 13th Astrometric Conference of USSR which was dedicated to problems of meridian and photographic astrometry.

D. Polozhentsev

[Abstracter's note: Complete translation]

S/035/61/000/009/002/036
A001/A101

AUTHOR: Zverev, M. S.

TITLE: On astrometric work at the Pulkovo Observatory from December 1955 to May 1958

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 9, 1961, 3-4, abstract 9A23 ("Tr. 14-y Astrometr. konferentsii SSSR, 1958". Moscow-Leningrad, AN SSSR, 1960, 31-40, Engl. summary)

TEXT: Section of fundamental astrometry. Absolute observations of 1,046 bright and weak stars have continued, as well as of the Sun and Polarissima (δ) by means of a great transit telescope and a vertical circle. 9,500 observations of α and 6,300 observations of δ were performed. A. A. Nemiro completed the investigation of a 100-year series of Pulkovo observations with the great transit telescope. Since 1956 observations of AGK3R stars from $+90^{\circ}$ to $+25^{\circ}$ have been conducted with a meridian circle, 19,000 observations were made. All the instruments are investigated. In 1956-1958 a series of test observations of right ascensions of 120 circumpolar stars were performed with a model of Sukharev horizontal meridian instrument. Several works were accomplished by the astro-

S/035/61/000/009/002/036
A001/A101

metric laboratory. A pendulum horizon was constructed, the model of horizontal meridian instrument was investigated. The following devices were constructed: a model of the transit telescope with a tube in the first vertical, a photoelectrical device for taking a reading of circles, an an interference examiner. In 1956 a computing laboratory was established. The catalog of ПФКСЗ (PFKSZ) was compiled with participation of the laboratory, and the working lists of AGK3R and КСЗ (KSZ) were prepared for Pulkovo, Nikolayev and Moscow, visible positions of PFKSZ are calculated, and meridian and other observations are processed. Section of astronomical constants and latitude service. Observations according to an enlarged program were conducted with a Freiberg zenith-telescope; 10,100 observations of pairs were made in 2.5 years. Since the mid-year of 1957 the work is incorporated into the program of IGY. Discussions of observations of 1904 - 1915 series (I. F. Korbut) and 1948 - 1955 series (V. I. Sakharov) have been completed. Since the beginning of IGY, observations have been conducted with a new ЗТЛ-180 (ZTL-180) telescope. In 1957 a zenith photographic telescope was mounted, regular observations are continued with a polar telescope (160 photographs), and its remote control was put into operation. Photographing of the Moon against the background of stars was organized with the purpose of determining ephemeris time. A latitude station was established at the town of

On astrometric work at the Pulkovo ...

S/035/61/000/009/002/036
A001/A101

Blagoveshchensk. Section of time service. The work is considerably expanded in connection with IGY. Since 1956 observations have been conducted with two photoelectric transit telescopes, 28,707 observations have been made. The number of receptions of time radio signals was increased to 6. The work was conducted on compiling the catalogs on the basis of observations of the time service. Thermal effects on results of astronomical observations were investigated. Sections of photographic astrometry and stellar astronomy. Photographic observations of galaxies were continued (first epochs were completed, over 500 plates were taken), as well as planetoids (106 plates) according to the KSZ plan with a normal astrograph. Uranus and Pluto were observed. A new investigation of the invisible satellite of 61 Cyg has been completed (A. N. Deych). Regular photographic (150 photographs) and visual observations of artificial Earth's satellites were carried out.

D. Polozhentsev

[Abstracter's note: Complete translation]

Card 3/3

ZVEREV, M.S.

Photographic vertical circle. Izv. GAO 22 no. 1:21-37 '60.
(MIRA 13:12)

(Transit circle)

S/025/61/000/003/006/012
A166/A127

AUTHOR: Zverev, M. S., Corresponding Member (see Ass.)

TITLE: Three questions - twenty-four answers

PERIODICAL: Nauka i zhizn', 28- no. 3, 1961, 23

TEXT: The author, a participant in the International Symposium "The Moon" comments on the significance of the photos of the reverse side of the Moon. He believes that the reverse side must differ somewhat from the visible side because of the absence of the solar eclipses there, which lead to extremely severe temperature changes on the Moon's visible surface (up to 150° in 1 hr). The photos should give valuable data on the structure and physical state of the surface layers. The Moon might eventually become a valuable intermediary space flight station which could be used for refueling of spaceships or might be considered an intermediary launching platform for space rockets in view of its lower gravity, and consequently, lower escape velocity. Rockets

Card 1/2

being launched from the reverse side would be shielded from the perturbing influence of the Earth's gravitation. A Mars-bound rocket could be launched vertically from the central portion of the reverse side at a speed of around 4.5 km/sec. Launching time would be most favorable when the Moon is in its last quarter for Earth. A Venus-bound rocket would be launched at approximately the same side when the Moon is in its first quarter. An astronomical observatory sited on the Moon would help to eliminate the distortion caused by the fluctuation of the air masses, experienced by observatories on the Earth. Such an observatory could initially be of the unstaffed robot type.

ASSOCIATION: Akademiya nauk SSSR (AS USSR)

S/035/62/000/009/005/060
A001/A101

AUTHOR: Zverev, M. S.

TITLE: New fundamental systems of stellar positions

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 9, 1962, 14, abstract 9A129 ("Tr. 3-go s"yezda Vses. astron.-geod. o-va, 1960", M., AN SSSR, 1962, 94 - 100, Discuss., 165 - 168)

TEXT: This is a short survey of work on compiling fundamental catalogues of stars. The FK3 catalogue, very accurate for epoch 1900, revealed by 1950 very marked systematic errors due to errors in proper motions; therefore, the work is going on since 1950 on improvement of the FK3. This work has been considerably delayed because of the insufficient amount of observational data, especially for the southern hemisphere. Of the other works, the following fundamental systems can be noted: N30 compiled by Morgan and Pu α 1 compiled by A. A. Nemiro. For improvement of fundamental systems, new observational data are needed which are obtained by both classical meridian methods and from observations with a Danjon astrolabe, from the data of time services and by other methods. Information is given on the progressing in compiling the catalogues of faint stars, and in particular on the ПФКС3 (PFKSZ) catalogue. It is planned to carry out anew observations for the catalogue of bright

Card 1/2

New fundamental systems of stellar positions

S/035/62/000/009/005/060
A001/A101

geodetic stars: this work is being conducted on the international scale. The southern hemisphere should be paid more attention; in particular, AS USSR is planning an expedition into the southern hemisphere for determination of absolute and relative coordinates of bright and faint stars from the list of Backlund-Hoff, compiled in Melburn. The development of astrometry depends on the increasing accuracy of observations, and at present several new instruments have been designed or proposed for determination of coordinates of luminaries.

D. Polozhentzev

[Abstracter's note: Complete translation]

VARINA, V.A.; GNEVYSHEVA, K.G.; ZVEREV, M.S.; IZVEKOVA, A.A.

Preliminary determination of diameter corrections of the Toepfer meridian circle. Izv.GAO 23 no.1:85-98 '62. (MIRA 16:12)

ZVEREV, M.S., otv. red.

[Transactions of the Astrometrical Conference of the U.S.S.R.] Trudy Astrometricheskoi konferentsii SSSR. Moskva, Izd-vo AN SSSR, 1963. 436 p. (MIRA 18:1)

1. Astrometricheskaya konferentsiya SSSR. 15th. Pulkovo, 1960. 2. Chlen-korrespondent AN SSSR.

ACCESSION NR: AR4042147 S/0269/64/000/006/0004/0004

SOURCE: Ref. zh. Astronomiya. Otdel'nyy vypusk, Abs. 6.51.31

AUTHOR: Zverev, M. S.

TITLE: Summary report of the presidium of the astrometry commission of the astronomy council of the Academy of Sciences of the USSR

CITED SOURCE: Tr. 15-y Astrometr. konferentsii SSSR, 1960. M.-L., AN SSSR, 1963, 7-19

TOPIC TAGS: astrometry, stellar position system, Earth rotation

TRANSLATION: An account of work conducted by the Astrometry Commission and its subcommittees during 1959-1960. Work was conducted in the solution of two basic contemporary problems of astrometry: 1) creation of fundamental systems of stellar positions and proper motions, and 2) study of rotation of Earth. On the first problem the following work was done: absolute determinations of coordinates of bright and faint fundamental stars, observation of Sun and major planets, determination of

Card 1/2

coordinates of weak reference stars, determination of right ascensions of circumpolar stars, determination of declinations of stars of the latitudinal programs, photographic observations of selected areas with galaxies and with FKSZ [Fundamental Catalog of Faint Stars] stars in the center, and photographic observations of selected minor planets. For solution of the second problem there were developed more than 10 subjects connected with the work of the time services, latitude services, and also certain other branches of astronomy. There were processed a series of observations obtained during the International Geophysical Year and the International Year of the Quiet Sun. In detail there are illuminated questions about the instruments available to astrometrists of different sections, about international communication and collective works, and on the prospects for the development of astrometry.

SUB CODE: AA ENCL: 00

Card 2/2

ACCESSION NR: AT4045941 S/0000/63/000/000/0027/0031

AUTHOR: Zverev, M.S.

TITLE: Program of meridian observations of latitude stars

SOURCE: AN SSSR. Astronomicheskiy sovet. Komissiya po izucheniyu vrashcheniya Zemli. Plenum. 1st, Kiev, 1962. Vrashcheniye Zemli (Rotation of the Earth); materialy* plenuma. Kiev, Izd-vo AN USSR, 1963, 27-31

TOPIC TAGS: astronomy, latitude start, latitude service, star catalogue, International Latitude Service, star, zenith telescope

ABSTRACT: Meridian observations of stars of latitude programs and the compilation of working catalogues from these observations have three principal objectives: 1. to make it possible to compute the latitudes of different observatories in a single system of declinations, making it possible to obtain the coordinates of the pole independently of systematic errors of declinations; 2. to provide a means for comparison of annual nonpolar changes in the latitudes of different observatories; and 3. to provide a means for studying the slow changes in latitude and the secular motion of the pole on the basis of observational data from different observatories. The means by which these objectives

are being achieved are discussed. Particular attention is given to the meridian program of latitude stars prepared at GAISh. This program includes the majority of stars from 12 zenith telescope programs and 8 zenith tube programs and contains about 3,000 stars. The number of stars in the various programs varies from 64 to 300. The GAISh list contains only 155 FK3 stars, of which only 13 are in the zone of declinations from +20 to 30° and only 17 in the zone from 70 to 80°. Such a small number of stars is obviously inadequate for a tie-in to the international basic list. Although there are 278 stars from the Catalogue of Faint Stars, which is close to the desired minimum (288), their distribution by right ascension, and especially declination, is extremely uneven. With respect to the fundamental stars in the GAISh list, in 50 areas of the sky measuring 1 hour in right ascension and 10° in declination (there are 144 such areas) there is not a single FK3 star, in 42 there are no stars from the Catalogue of Faint Stars, and in 18 there are no stars from either list. For each area to contain not less than 2 FK3 stars and 2 stars from the Catalogue of Faint Stars it would be necessary to add 154 stars and 115 stars from the Catalogue of Faint Stars to the GAISh list. At the same time, the author recommends the elimination of certain stars now in the list. The principles

ACCESSION NR: AT4045941

for preparing a working catalogue of declinations of latitude stars are discussed.

ASSOCIATION: none

SUBMITTED: 13Dec63 ENCL: 00 SUB CODE: AA

NO REF SOV: 004 OTHER: 001

3/3

Card

ZVEREV, M.S.

Soviet astronomers in Chile. Vest.AN SSSR 33 no.2:88-91 F '63.
(MIRA 16:2)

1. Chlen-korrespondent AN SSSR.
(Chile--Astronomy--Observations)

ZVEREV, M.S.; MURRI, S.A.

System of right ascensions of the Teopfer meridian circle.
Izv. GAO 23 no.4:16-22 '64. (MIRA 17:9)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4

L 08154-67 EWA(h)

ACC NR: AR6025334 SOURCE CODE: UR/0269/66/000/004/0011/0011

AUTHOR: Zverev, M. S.

TITLE: The beginning of Pulkovo astronomers work in Chile

SOURCE: Ref. zh. Astronomiya, Abs. 4.51.94

REF SOURCE: Tr. 16-y Astrometr. konferentsii SSSR, 1963. M.-L., Nauka, 1965, 18-25

TOPIC TAGS: astronomy, astronomic observatory, STAR, GALACTIC NEBULA, CELESTIAL MECHANICS

ABSTRACT: The astronomic expedition of the Pulkovo observatory in Chile has started work in the observatory of the National university Serro Kalan on the 12th October, 1962. The plan of studies includes observations of stars KSZ and southern basis stars, determination of the absolute constants of bright and faint stars and photographic observations of extragalactic nebulae, with the aim of subsequent determination of the stars own motions. The work is done jointly by soviet and chilean astronomers, with instruments of both countries (SSSR and Chile): meridional circle of Repsold (see ref.96) photographic vertical circle of Zeiss. Constructional features of the instruments are given. A high luminosity double meniscus astrograph has been sent to Chile and transfer of a large transit instrument is in preparation. A transit instrument of Zeiss is in operation. Work proceeds successfully. Brief information on the history of the Serro-Kalan observatory is given. [Translation of abstract].

Card 1/1 SUB CODE: 03 UDC: 5220:522.15(47:83)

BATURINA, G.D.; BEDIN, V.S.; VARINA, V.A.; GNEVYSHEVA, K.G.; ZVEREV, M.S.; IZVEKOVA, A.A.; MURRI, S.A.; NAUMOVA, A.A.; POLOZHENTSEV, D.D.

Observations of AGK3R stars with the Toepfer meridian circle at Pulkovo. Izv. GAO 23 no.4:3-15 '64. (MIRA 17:9)

ZVEREV, M.S.

Pulkovo astrometry specialists in Chile. Zem. i vsel. 1 no.1:71-77 Ja-F '65. (MIRA 18:7)

1. Chlen-korrespondent AN SSSR.

ZVEREV, M.S.

Determination of systematic errors in a fundamental catalog from meridian observations of a series of fundamental stars. Astron. zhur. 42 no.4:823-830 Jl-Ag '65.

(MIRA 18:8)

1. Glavnaya astronomicheskaya observatoriya AN SSSR.

1. ZVEREV, M.V.

2. USSR (600)

4. Geography & Geology

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ZVEREV, M.Ye.; KUPRYAKOV, B.G.; LYBIN, I.V.

Stand for agitating graduated flasks. Lab. delo 10 no.4:251-252 '64. (MIRA 17:5)

1. Gospital'naya terapevticheskaya klinika (zaveduyushchiy - prof. A.A.Kovelevskiy) Tomskogo meditsinskogo instituta.

Nonadhesive lining material for tire manufacture. N. Zveerev and *J. Rubber Ind.* (U. S. S. R.) 11, 290-70(Oct., 1934).—To a mixt. of casein 45, glycerol 45, and kaolin 10 parts add water to the required consistency. Apply 2-3 coatings on both sides of the cotton material. Dry 1.0-1.5 hrs. Then treat with HCHO. The total time is 6-7 hrs.

A. Pestoff

ZVEREV, N.

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(Kazakhstan--Stock and stockbreeding)

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SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

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"Dinamo" production for foreign markets. Vnesh.torg. 43 no.3: 30-31 '63. (MIRA 16:4)
(Moscow--Electric equipment industry)

SIDOROV, V.; ZVEREV, N.

For the best production in the world. Vnesh. torg. 41 no.8:34 '61. (MIRA 14:8)

(Moscow—Electric industries)
(Russia—Commerce)

AZARKH, M.; ZVEREV, N.

Many countries know the "DK" trade-mark. Vnesh. torg. 42 no.3:37-39 '62. (MIRA 15:3)

(Electric industries)

ASHKENAZI, Yelena Konstantinovna, kand.tekhn.nauk. Prinimali uchastiye: POZDNYAKOV, A.A., inzh.; KRAVTSOV, B.A., inzh.; KACHESOV, A.N., inzh.; BUROV, M., student; ZVEREV, N., student; RAZUVAYEV, V., student; ROBUSH, O., student; SAMSONOVA, Ye., student. KUSHELEV, N.G., red.; GVIRTS, V.L., red.izd-va

[Anisotropy of mechanical properties of some glass plastics; verbatim report of a lecture] Anizotropiia mekhanicheskikh svoistv nekotorykh stekloplastikov; stenogramma lektsii. Leningrad, Leningr. Dom nauchno-tekhn.propagandy, 1961. 62 p. (MIRA 14:12)
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[Experience in the use of a continuous rail track in the U.S.S.R.] Opyt primeneniia besstykovogo puti v SSSR. Moskva, Transzheldorizdat, 1963. 50 p. (MIRA 17:1)

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(Railroads--Rails)

MARKAR'YAN, M.A., kand.tekhn.nauk [deceased]; ZVEREV, N.B., inzh.

Resistance to displacements of continuous tracks. Trudy TSNII MPS no.224:19-45 '62. (MIRA 16:6)

(Railroads—Track)

KRUGMAN, K.I.; ZVEREV, N.B., nauchno-tekhn. red.; RODOVSKAYA, M.V., red. GROMOV, Yu.V., tekhn. red.

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[Guide to the Exhibition of the National Economy of the Kazakh Soviet Socialist Republic] Putevoditel' Narodnokhozialstvennoi vystavki Kazakhskoi Sovetskoi Sotsialisticheskoi Respubliki. Almaty, 1961. 156 p. [In Kazakh and Russian] (MIRA 18:5)

1. Alma-Ata. Narodnokhozyaystvennaya vystavka Kazakhskoy Sovetskoy Sotsialisticheskoy Respubliki.

ZVEREV, Nikolay Borisovich, inzh.; PETRO'A, V.L., red.

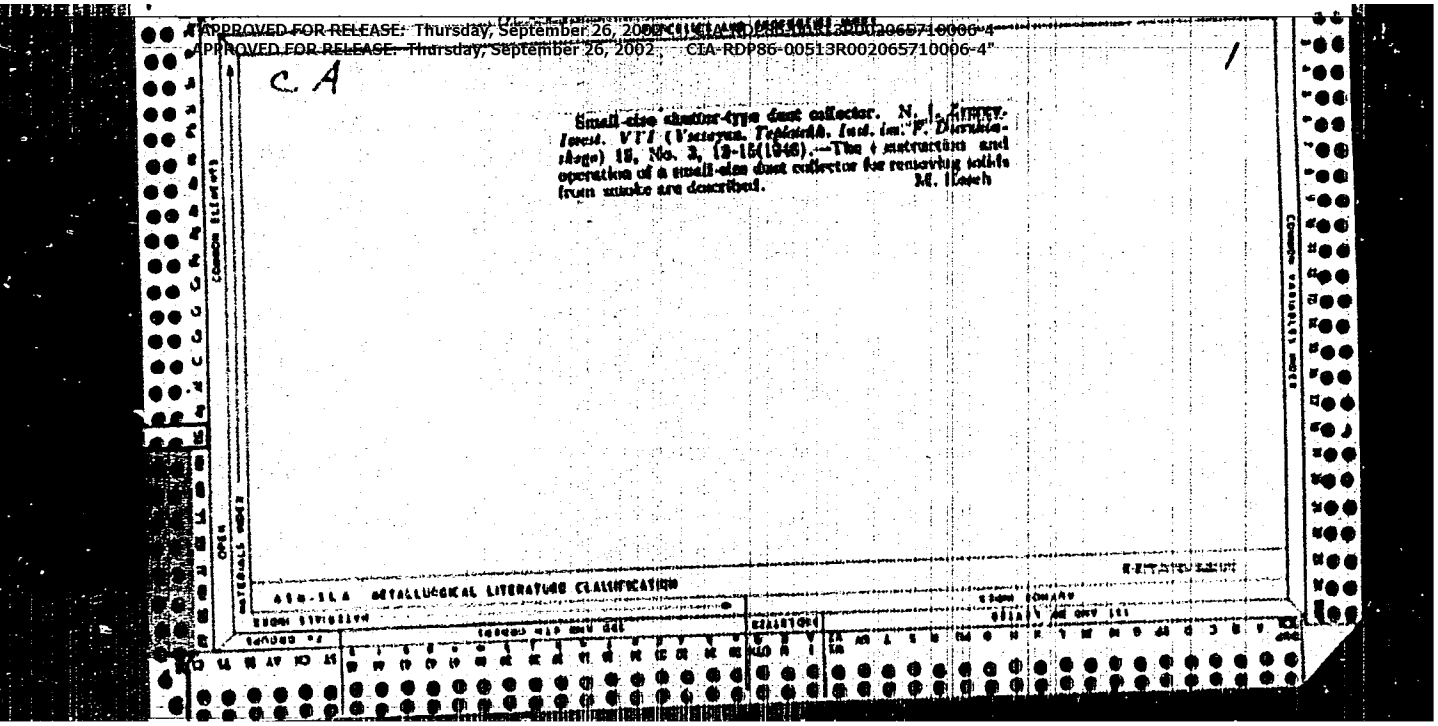
[Continuous rail track with various types of fastenings] Besstykovyi put' so skrepleniiami razlichnykh tipov. Moskva, Transport, 1965. 29 p. (MIRA 18:3)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710006-4"

C A

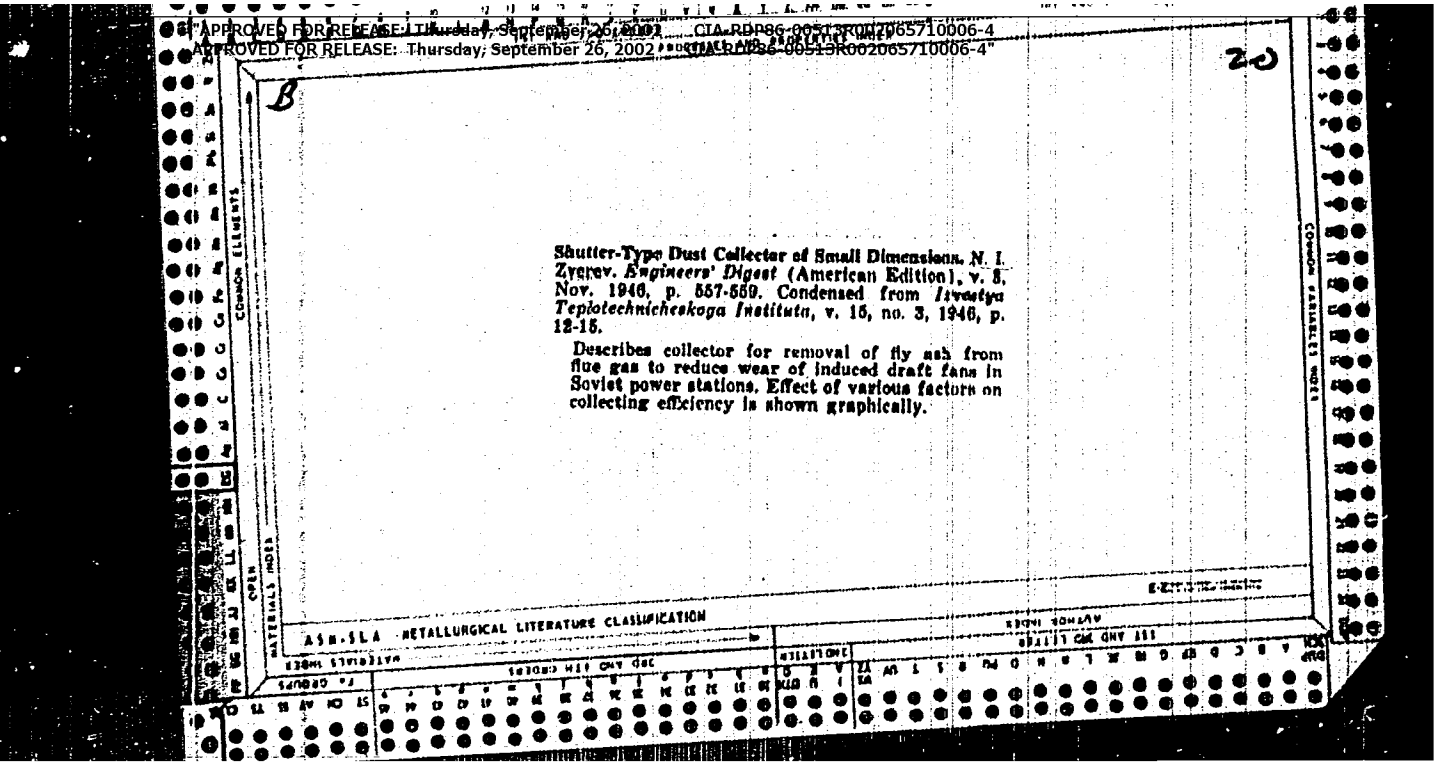
1

Small-size shutter-type dust collector. N. I. Kitaev. *Izvest. VTI* (*Vestnik. Tekhnikh. Inst. im. F. Dzerzhinskogo*) 15, No. 3, (3-15(1946).—The construction and operation of a small-size dust collector for removing solids from smoke are described. M. Hasch



1190. SMALL-SIZE SHUTTER-TYPE DUST COLLECTOR. Zygray, N. I. (Izvest. VTI (Vsesoyuz. Teplotekh. Inst. Im.F. Dzerzhinskogo), 1946, 15, No.3, 12-15; Chem. Abstr. 1946, 40, 6303).

The construction and operation of a small-size dust collector for removing solids from smoke are described.



B

20

Shutter-Type Dust Collector of Small Dimensions. N. I. Zyrev. *Engineers' Digest* (American Edition), v. 8, Nov. 1946, p. 557-559. Condensed from *Izvestya Teplotechnicheskoga Instituta*, v. 15, no. 3, 1946, p. 12-15.

Describes collector for removal of fly ash from flue gas to reduce wear of induced draft fans in Soviet power stations. Effect of various factors on collecting efficiency is shown graphically.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

ZVEREV, I. F. Cand Tech Sci

Dissertation: "Louver-Type Ash Trap." All-Union Order of the Labor Red Banner Heat Engineering Inst imeni F. E. Dzerzhinskiy, 2 Jul 47.

SO: Vechernyaya Moskva, Jul, 1947 (Project #17836)

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(Stars--Catalogs)