S/193/60/000/007/010/012
A005/A001

AUTHOR: Ausenev, Yu. M.

TITLE: Mechanical Engineering in China in 1959

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No. 7, pp. 73-75

TEXT: The gross output of engineering industry of the Chinese People's Republic amounted in 1959 to 33.0 billion yuans and increased since 1958 by 49.5%; the yearly plan was exceeded by more than 10%. - The number of laborers and employees of the engineering industry amounted to 4.2 million at the beginning of 1959 in comparison with 0.4 million in 1949. - In 1959, more than 300 new kinds of products of engineering were manufactured. The development of output of the main production kinds is presented in the table:

Kind of production	Years				
	1949	1952	1957	1958	1959
Metal cutting machines, in 1,000 pieces	1.6	13.7	28.0	50.0	70.0
Automobiles, in 1,000 pieces	-	-	7.5	16.0	19.4
Locomotives, in pieces	...	20	167	350	...

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Mechanical Engineering in China in 1959

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mills of the total productivity of more than 2 million t per year, a rolling mill for seamless pipes with 16,000 t output per year. - The following rolling mills were produced in 1959: mill 800/650 with 1 million t rolled steel per year, the medium-grade mill 650 with 200,000 t rolled steel per year, the medium-sheet mill 2,300 with 150,000 t per year. - More than 60 sets of equipment for blast furnaces were produced, including 11 sets for medium- and big furnace with the total productivity of more than 4 million t per year. - The production of blast engines for blast furnaces with a capacity of 3,250 m^3 of air per minute was organized. 23 sets of equipment for coke batteries were produced with the yearly productivity of 300,000 to 450,000 t of coke. The equipment for a 1,513 m^3 blast furnace with a yearly output of 860,000 t was produced, moreover, the equipment for a Martin-furnace with the daily output of 500 t. The construction of a blooming mill with the roller diameter 1,150 mm with the 3.2 million t per year output is being completed. The production of hydraulic forging presses of 2,500-t force and 16,000 t forged pieces per year was organized. - The technical level of the electrical engineering was improved: in particular, the first big d-c electro-motor of 2,800 kw was produced, moreover, a hydroturbine of 72,500 kw for the Sin'an'tszyanskaya ГЭС (GES) (Singsianghsien hydro-electric power station), a 50,000 kw steam-turbine generator with hydrogen cooling, a transformer of 60,000

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kva for 220,000 v voltage, a high pressure steam turbine with a double steam extraction of 25,000 kw, a 280 t per hour steam boiler for 39 kg/cm^2 steam pressure provided for a steam-turbine generator of 50,000 kw. - The transport mechanical engineering plants initiated in the test stage the production of several kinds of diesel-locomotives and electric locomotives. In the Tsiyanghsien shipyard (Shanghai) the coast ship "Mir-58" was subjected to trial trips; its tonnage is 9,400 t at 5,000 t load capacity. In Shanghai the coast freighter "Mir-60" with 3,000 t load capacity and 4,700 t tonnage was launched, its length is 99 m and draught is 5.5 m. The first Chanchun'skiy avtomobil'nyy zavod (Chanchuen automobile Works) began in 1959 the series production of the six-seater motor cars of the "Khuntsi" make with eight-cylinder engine of 200 hp and maximum speed of 185 km/hr, having ventilation, radioset, and sound- and heat insulation. - The machine-tool industry increased the production output and quality and organized the production of new metal-cutting machines. In particular, the production of a 16-spindle vertical drilling machine, a 18-spindle horizontal boring machine, and the 4.5-m-vertical lathe, the biggest in China, was organized. - The agricultural engineering works manufactured drainage and irrigation engines (their productivity increased by more than 80% in comparison with 1958), plows for mechanical traction, cultivators, spray pumps, combines, mechanical threshers, and mowing machines. By the end of 1959, the agriculture was provided with 55,000 tractors, 100,000 trailers,

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4,500 grain harvester combines, irrigation and drainage engines with the total power of 2.8 million hp. The Chanchuen tractor work delivered the first lot of the "Tenyu"-tractor representing a universal tractor of 40 hp with rubber wheels. - The watchmaker industry delivered the total amount of 5.7 million pieces of wrist watches, automobile watches, nautical chronometers etc. The productivity of the bicycle industry increased by about 30% in comparison with 1958 and delivered 1.5 million pieces. - The capacity in the capital construction increased considerably; by the end of August, 14 big plants of the mechanical engineering were put into operation: the Peking steam turbine work delivering yearly the equipment for 600,000 kw, the Ukhanskiy boiler plant, the Chzhenchzhous abrasive-wheel work built with the help of the German Democratic Republic, the Loyang tractor plant. - Moreover, more than 100 big and more then 1,000 small works of the mechanical industry were built up. The construction of the Taiyuan and Shanghai works of the heavy mechanical industry was continued, the Shen-yang work of heavy mechanical industry was expanded as well as the Kharbin electroengineering work. In October, the construction of the Peking ball bearing work was started, representing one of the biggest Chinese works having the yearly productivity of 10 million sets. The Peking-, Nanking-, and Guanchzhou watchmaker works were constructed, and the existent watchmaker works in Shanghai and Tyan'tszin were expanded. - In conse-

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AVSENEV, Yu.M.

Machinery industry in China in 1959. Biul. tekh.-ekon. inform. no.7:73-75 '60. (MIRA 13:7)
(China--Machinery industry)

L 05287-67 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1) GD
ACC NR: AT6022704 SOURCE CODE: UR/0000/66/000/000/0408/0419

AUTHOR: Avseyenko, V. V.; Medvedev, G. A.; Ravodin, O. M.

ORG: none

35
B+1

TITLE: Continuous extremal systems

SOURCE: Moscow. Institut avtomatiki i telemekhaniki. Samoobuchayushchiyesya avtomaticheskiye sistemy (Self-instructing automatic systems). Moscow, Izd-vo Nauka, 1966, 408-419

TOPIC TAGS: automatic control theory, circuit design, random noise signal

ABSTRACT: This article gives a general description and structure of a continuous extremal system in which information is extracted from realization of the output quantity of the object on a sliding time scale of fixed length which is limited at the top and at the bottom. The design features and technical characteristics of an experimental model are given schematically and the function of each component is elucidated. The system has the following technical characteristics: passband width 0.5 cps; range of voltage change at the output of the summators and integrators ± 100 v; amplitude of the search disturbances 4.5 v; duration of the search disturbances 0.1 sec; off-duty factor 1/2; delay time 0.1 sec; a duration of 100 sec of

Card 1/2

KLASSEN, Villi Ivanovich, doktor tekhnicheskikh nauk; AVSEYENOK, A.F., redaktor; ALADOVA, Ye.I., tekhnicheskiy redaktor

[Coal flotation] Flotatsiia uglei. Moskva, Ugletekhizdat, 1955. 25 p. (MLRA 9:1)

(Coal preparation)

ALSEYENOK, A.F.

BEYLIN, Miron Izrailevich, dots., kand.tekhn.nauk; ALSEYENOK, A.F., otvetstvennyy red.; RYKOV, N.A., red.izd-va; SHKLYAR, S.Ya., tekhn.red.

[Dewatering products in coal beneficiation] Obezvozhivanie produktov obogashcheniia uglia. Moskva, Ugletekhizdat, 1958. 173 p. (Coal preparation) (MIRA 11:6)

BOGATIKOV, Anatoliy Somenovich; SUKHORUCHENKO, Ivan Alekseyevich; AVSEYENOK, A.[illegible], otv.red.; TSUKERMAN, S.Ya., red.izd-vo; SABITOV, A., tekhn.red.

[Automatic regulators for jigging machines.] Avtomaticheskie reguliatory otsadochnykh mashin. Moskva, Ugletekhizdat, 1959. 20 p. (MIRA 12:9)

(Coal preparation--Equipment and supplies)
(Ore dressing--Equipment and supplies)

AVSEYENOK, A.F.; STAL', L.A., red.; BYKOVA, Zh.A., red.; TOKER, A.M., tekhn.red.

[Brief guide for the organization, equipment, and work of training centers in mining engineering; mining industry] Kratkoe rukovodstvo po organizatsii, oborudovaniiu i rabote uchebnogo kabineta gornogo dela (gornorudnaia promyshlennost'). Moskva, Vses.uchbno-pedagog.izd-vo Trudrezervizdat, 1959. 31 p. (MIRA 12:8)

(Mining engineering--Study and teaching)

GORLOV, Ivan Panteleyevich; AVSEYENOK, A.F., otv.red.; TSUKERMAN, S.Ya., red.izd-va; LOMILINA, L.N., tekhn.red.; SHKLYAR, S.Ya., tekhn.red.

[Coal preparation in the Polish People's Republic] Obogashchenie uglei v Pol'skoi Narodnoi Respublike. Moskva, Ugletekhizdat, 1959. 47 p. (MIRA 12:6)
(Poland--Coal preparation)

AVSEYENOK, A.F.

BOGUSLAVSKIY, Aleksandr Ruvimovich; ANDREYEV, Lev Sergeyevich; SHAPOSHNIKOV, Sergey Stakheyevich; AVSEYENOK, A.F., otv.red.; SINYAGINA, Z.A., red.izd-va; SABITOV, A., tekhn.red.

[Scraper operator] Mashinist skrepernoi ustanovki. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1959. 201 p. (MIRA 13:2)

(Scrapers)

ZABOLOTNYY, Ivan Prokof'yevich; POLONSKIY, Mikhail Isaakovich; PAVLOV, K.V., kand.tekhn.nauk, retsenzent; LYAKHOV, G.M., kand.tekhn.nauk, retsenzent; YERMALENKO, M.I., gornyy inzh., retsenzent; SOSEDOV, O.O., gornyy inzhener; AVSEYENOK, A.F., otv.red.; SIPYAGINA, Z.A., red.izd-va; ISLENT'YEVA, tekhn.red.; PROZOROVSKAYA, tekhn.red.

[Mining engineering; for miners of underground integrated brigades] Gornorudnoe delo; dlia gornorabochikh podzemnykh kompleksnykh brigad. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 384 p. (MIRA 13:3)

(Mining engineering)

POL'KIN, Stepan Ivanovich, prof., doktor tekhn.nauk; EYGELES, M.A., prof., doktor tekhn.nauk, retsenzent; TROITSKIY, A.V., inzh., retsenzent; AVSEYENOK, A.F., otv.red.; GLEBOTSKIY, V.A., red.; YEZDOKOVA, N.L., red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.; BERESLAVSKAYA, L.Sh., tekhn.red.

[Flotation of rare metal and tin ores] Flotatsiia rud redkikh metallov i olova. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 637 p. (MIRA 13:2)
(Flotation) (Nonferrous metals)

AVSEYEV, Ye.; VAYNSHTOK, inzhener.

Practical computation of pieces of fabrics. Leg.prom. 14 no.6: 54-55 Je '54. (MLRA 7:8)

1. Nachal'nik proizvodstv. tekhn. otdela vinnitskoy shveynoy fabriki im. Volodarskogo (for Avseyev).
(Clothing industry)

BC AVSEYEVICH, G.P.

a-1

Temperature coefficient of the antimony electrode. G. P. AVSEYEVICH and I. I. SHUKOV (J. Gen. Chem. Russ., 1931, 1, 189—208).—The p_H using an Sb electrode against a saturated Hg_2Cl_2 electrode is given by $p_H = (E + 0{\cdot}026 + (t^\circ - 18)0{\cdot}00016)/(0{\cdot}0542 + (t^\circ - 18)0{\cdot}000275)$. R. TRUSZKOWSKI.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

BC AVSEYEVICH, G.P.

A-1

Hydrolysis and the oxidation-reduction potential of the system Fe^{+++}-Fe^{++}. P. A. KRIUKOV and G. P. AVSEYEVITSCH (Proc. Leningrad Dept. Inst. Chem., 1939, 17, 135—150).—Glass electrode data for the system are recorded. A. M.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

AVSEYEVICH, G.P.

Avseyevich, G.P. "Positive electrodes of lithium glasses," Report 1, Uchen, zapiski (Leningr. gos. un-t im. Zhdanova), Chemical sciences series, Issue 8, 1949, p. 3-16

SO: U-3566, 15 March, 53, (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

AVSEYEVICH, G.P., [deceased]

Glass electrodes made from lithium glasses. Uch.zap.Len.un. no.108:3-16 '49. (MLRA 10:3)

(Electrodes, Glass)

AVSEYEVICH, G. P.

3

USSR

Limits of the hydrogen function of lithium glass electrodes in solutions of sodium and lithium salts. G. P. Avseyevich. *Uchenye Zapiski Leningrad. Gosudarst. Univ. im. A. A. Zhdanova* No. 150, *Ser. Khim. Nauk* No. 10, 50-62(1951). The max. pH values, above which the glass electrode-calomel electrode measurement differs from that of the H electrode, are given for Li-Ba glass electrodes (I), and Li-Mg glass electrodes (II). For I, the Na molarities and the respective max. pH values are: 0.1, 12.4; 0.3, 11.4; 0.7, 10.7; 1.5, 10.4; 3.0, 10.0. The corresponding Li molarities and pH values are: 0.1, 11.6; 0.3, 10.6; 0.7, 10.1; 1.5, 9.7; 3.0, 9.4. For II the Na series is: 0.1, 11.0; 0.3, 10.8; 0.7, 9.6; 1.5, 9.1; 3.0, 8.7; and the Li series is: 0.1, 10.9; 0.3, 10.0; 0.7, 9.0; 1.5, 8.2; 3.0, 8.0. I are particularly susceptible to difficulties resulting from poor wetting characteristics originating in the fabrication procedure. Methods for overcoming this difficulty are discussed.

C. H. Fuchsman

YUDELEVICH, I.G.; SHELPAKOVA, I.R.; Prinimali uchastiye: SOSNOVSKAYA, T.I.; AVSEYKO, Ye.M.; KHAMIDULINA, F.K.

Spectrographic determination of indium, thallium, and tellurium in solutions during their recovery from by-products of the lead-zinc industry. Zhur.anal.khim. 17 no.2:174-179 Mr-Ap '62. (MIRA 15:4)

1. All-Union Scientific Research Institute of Non-Ferrous Metals, Ust-Kamenogorsk.
(Indium--Spectra) (Thallium--Spectra) (Tellurium--Spectra)

YUDELEVICH, I.G.; SHELPAKOVA, I.R.; AVSEYKO, Ye.M.

Spectrographic determination of selenium in the products of slime processing. Zhur. anal. khim. 18 no.5:634-638 My'63. (MIRA 17:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy gornometallurgicheskiy institut tsvetnykh metallov, Ust'-Kamenogorsk.

L 34882-66

ACC NR: AT6013544

was used for determining traces of germanium of the order of 1 part in 100,000 in slags and mattes. The sensitivity of germanium determination with respect to the Ge 303.90 mμ line is 10-4% in this case with a relative error of about 15%. Commercial solutions are analyzed by electrode saturation. The relative mean square error is 9% with this method. Indium, thallium, gallium, and germanium are simultaneously determined by pouring the solutions to be analyzed into a socket in a special copper electrode and then drying the electrode so that the solution adheres to the surface. The advantage of this method over the saturation of carbon electrodes lies in the possibility of using the sensitive long-wave lines located in the region of cyanogen bands: In 410.18 mμ, Ga 417.2 mμ and Tl 377.57 mμ. This method gives a relative error of 9%. Methods are discussed for determination of rare elements in zinc and lead ores with a sensitivity of at least 10^{-4}% using spectrographic analysis with a buffer solution of sodium fluoride. Orig. art. has: 1 figure.

SUB CODE: 11, 20/ SUBM DATE: 06Jul65/ ORIG REF: 005/ OTH REF: 000

Card 2/2

USSR/Cultivated Plants - Grains

M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53589

Author : Avshalumov, O.I.

Inst : Dagestan Agricultural Institute

Title : The Water Balance of a Rice Field in Periodical Irrigation

Orig Pub : Tr. Dagestansk. s-kh. in-ta, 1956, 9, 179-183

Abstract : This article describes the water balance and the rice yield under conditions of periodic irrigation and continuous flooding. The expenditure of water for periodic irrigation was 1/3 of the water needed for continuous flooding. In the periodic irrigation it is sufficient to introduce into the soil 7037.0 m^3/ha of water as against 21.500 m^3/ha in continuous flooding. The yield of rice on the plot with periodic irrigation was higher than on the plot with continuous flooding.

Card 1/2

AVSHALUMOVA, A.D.

Determination of the freshness degree of meat by paper chromatography. Vop.pit. 21 no.3:22-28 My-Je '62. (MIRA 15:10)

1. Iz kafedry veterinarno-sanitarnoy ekspertizy (zav. - prof. G.V.Kolobolotskiy) Moskovskoy veterinarnoy akademii.
(MEAT INSPECTION) (AMINO ACIDS)

ACC NR: AP6027260 SOURCE CODE: UR/0072/66/000/006/0006/0009

AUTHOR: Tatevosyan, K. M. (Engineer); Manvelyan, M. G. (Academician AN ArmSSR); Avsharova, S. N. (Engineer)

ORG: Yerevan Scientific Research Institute of Chemistry (Yerevanskiy nauchno-issledovatel'skiy institut khimii)

TITLE: Volatization of boric anhydride during the founding of glasses

SOURCE: Steklo i keramika, no. 6, 1966, 6-9

TOPIC TAGS: borate glass, glass property, nonstructural mineral product

ABSTRACT: Volatization of boric anhydride from alkali-free glass "E" (Al_2O_3 introduced either as alumina calcined at 1200°C or as clay) and from alkaline glass type ZS-5Na was studied in 0-1400°C and 0-45 hr of heat treatment. All glass samples contained approximately 10 wt % B_2O_3. The samples were heated to the desired temperature at 5°C/min. The results are graphed and tabulated. It was found that volatization of B_2O_3 from alkali-free glasses is completed at 500°C for samples prepared with calcined alumina and is completed at 900°C for samples prepared with clay. It was also found that, as a result of thermal treatment of alkali-free glasses, the B_2O_3 transforms into calcium and magnesium borates which are practically nonvolatile above 1000-1200°C. The greater volatility of B_2O_3 in the alkaline glasses is explained in terms of formation

UDC: 666.1.031.13:66.046.594

Card 1/2

AVSHAVEKTI, I. A.

"Renttenofotometricheskoye izucheniye mineral'noy nasyshchennosti nekotorykh uchastkov skeleta cheloveka."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences, Moscow, 3-10 Aug 64.

PAL'MIN, V., kand. khim. nauk; TETERNIK, D., prof.; AVSHYUKEVICH, V.; ZEL'MANOV, I.

Effect of the adrenalin treatment of animals on the course of some biochemical processes. Mias. ind. SSSR 34, no.4:53-54 '63. (MIRA 16:10)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti (for all except Zel'manov). 2. Moskovskiy ordena Lenina myasnoy kombinat (for Zel'manov).

KALISHCHUK, A.G.; AVSTREYKH, A.S., inzh.

Compact loading of machinery and mechanisms on flat cars.
Zhel.dor.transp. 44 no.6:76-78 Je '62. (MIRA 15:8)

1. Glavnyy inzh. stantsii Brest-TSentral'nyy Belorusskoy dorogi (for Kalishchuk). 2. Stantsiya Brest-Tsentral'nyy Belorusskoy dorogi (for Avstreykh).
(Railroads--Freight) (Loading and unloading)

SHILKIN, P.M.; ZEL'VYANSKIY, Ya.A.; SIBAROV, Yu.G.; KUSTOV, V.M.; TSYKHMAN. A.I.; KUVSHINOV, M.I.; SHIPAREV, Yu.A.; TYURNIN, G.A.; AVSTREYKH, L.D.; BAKANOV, N.N.; KHITROV, P.A., tekhn. red.

[Safety engineering regulations for operating the contact networks of d.c. electrified railroads]Pravila tekhniki bezopasnosti pri ekspluatatsii kontaktnoi seti postoiannogo toka elektrifitsirovannykh zheleznykh dorog. Moskva, 1962. 128 p. (MIRA 15:7)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye elektrifikatsii i energeticheskogo khozyaystva. 2. Zamestitel' nachal'nika tekhnicheskogo otdela TsE Ministerstva putey soobshcheniya (for Shilkin). 3. Technicheskiy otdel TsE Ministerstva putey soobshcheniya (for Zel'vyanskiy). 4. TSentral'nyy komitet profsoyuza rabochikh zheleznodorozhnogo transporta (for Sibarov). 5. Nauchno-tekhnicheskiy sovet Ministerstva putey soobshcheniya (for Kustov). 6. Sluzhba elektrifikatsii i energeticheskogo khozyaystva Odesskoy zheleznoy dorogi (for TSykhman). 7. ECh Yuzhno-Ural'skoy zeleznoy dorogi (for Kuvshinov). 8. ECh Moskovskoy zheleznoy dorogi (for Segala, Shiparev, Tyurnin). 9. EChK Oktyabr'skoy zheleznoy dorogi (for Avstreykh). EChK Moskovskoy zheleznoy dorogi (for Bakanov). (Electric railroads—Safety regulations)

RYL'SKIY, D.Ya.; MALYSHEV, F.D.; AVSTREYKH, L.D.

Letters to the editor. Elek. i tepl. tiaga 7 no.9:46 S '63. (MIRA 16:10)

1. Nachal'nik distantsii kontaktnoy seti Yuzhno-Ural'skoy dorogi (for Ryl'skiy). 2. Nachal'nik Mendeleyevskoy distantsii kontaktnoy seti Sverdlovskoy dorogi (for Malyshev). 3. Nachal'nik distantsii kontaktnoy seti Moskovskogo uchastka energosnabzheniya Oktyabr'skoy dorogi (for Avstreykh).

AVSTRIYEVSKIY, Yu.A.

TSEKHANSKIY, Yu.A.; AVSTRIYEVSKIY, Yu.A.

We are building our own houses. Put' i put.khoz.no.8:17 Ag '57. (MLRA 10:9)

1. Zamestitel' nachal'nika Yeletskoy distantsii (for TSekhanskiy).
2. Inzhener Yeletskoy distantsii (for Avstriyevskiy).
(Railroads--Employees)

ACCESSION NR: AT4042309 S/0000/63/003/000/0263/0270

AUTHOR: Avstreykh, G. A., M. V. Levin, Lyandres, M. E., Timofeyev, V. V.

TITLE: Electromagnetic DC pump for pumping metal in the system for cooling electrolyzer elements

SOURCE: Soveshchaniye po teoreticheskoy i prikladnoy magnitnoy gidrodinamike, 3d, Riga, 1962. Voprosy* magnitnoy gidrodinamiki (Problems in magnetic hydrodynamics); doklady* soveshchaniya, v. 3. Riga, Izd-vo AN LatSSR, 1963, 263-270

TOPIC TAGS: direct current pump, electromagnetic pump, liquid metal pump, refrigeration, cooling system, electrolyzer, conduction pump

ABSTRACT: The authors note that in the production and transport of light metals pumps with high-power and high-efficiency are required, while in order to ensure accurate measurements it is essential that the pumps used have good adjustment qualities. At different stages of the production process the conditions under which the pump is operated and the power supplies used to drive it may vary considerably (in electrolysis plants high-power DC lines are available; in other shops single-phase or three-phase AC is preferred). Different types of pumps are therefore required in the production of light metals. In the present article, one of the cases in which an electromagnetic pump is used in light metal

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ACCESSION NR: AT4042303

production is considered. During the process of testing one of the electrolyzers it was discovered that there was a need to cool the rods to which the cathode was attached. Air cooling was found to be ineffective, and water cooling was rejected for reasons of safety. This led to the decision to employ the liquid metal as the coolant. A DC conduction pump with series-connected driving coil was selected as the best pump for the particular task. In order to make use of the DC lines in the shop the pump was connected in series with the electrolyzer. The advantages of this type of connection under the specific conditions encountered are discussed in the article. The pump designed for the test electrolyzer was rated to provide a flow of the heat-carrying agent (a eutectic Pb-Bi alloy) of $Q = 0.5-0.7$ m^3/hour at a pressure of $P = 1.5$ kg/cm^2. A 2000-2500-ampere power supply was used to drive the pump. The pump was operated for 30 days in the cooling system of the experimental cathode device of the electrolyzer. After this period, inspection of the pump and the inner part of the channel failed to reveal any damage whatsoever. The efficiency of the pump, calculated on the basis of its pressure, productivity and power consumption when operating with the experimental electrolyzer, was only 2-3%. The authors describe the various calculation methods normally used in the design of pumps with optimal structural dimensions. Since the pump reported on in this article had non-optimal dimensions, a study was made of the applicability of these methods to such pumps (that is, to pumps

ACCESSION NR: AT4042303

whose structural dimensions are not optimal). The stand on which the pump testing was performed is described in detail in the article. It is noted that the same alloy used in the cooling system was employed as the working liquid. The processing of the experimental results of this test is described (the method of least squares was specifically used in the approximation of these data). The fundamental mathematical expression, on the basis of which the calculated characteristics of the pump were obtained, is analyzed. The authors note that the determination of the causes of the divergence between calculated and experimental $p = f(Q)$ characteristics, when the static characteristics show good agreement, is essential to the design of a pump to be used in an industrial cooling system associated with an electrolyzer cathode unit, since it is to a large degree on the nature of these causes that the feasibility of employing the conventional methods of calculating high-power pumps with non-optimal dimensions depends. Orig. art. has: 2 formulas and 4 figures.

ASSOCIATION: None

SUBMITTED: 04Dec63 ENCL:00 SUB CODE: IE

NO REF SOV: 006 OTHER: 004

3/3

Card

AVSTREYKH, L.L., starshiy inzh.

Use of sulfite cellulose extract for the oiling of worsted fiber blends. Tekst.prom. 21 no.9:43-44 S '61. (MIRA 14:10)

1. Nauchno-issledovatel'skaya laboratoriya Krasnodarskogo kamvol'no-sukonnogo kombinata.
(Woolen and worsted manufacture)

MIKULINICH, Nikolay Il'ich [Mikulinich, M.I.]; AVSYANNIKOVA, S.G. [Ausyannikava, S.H.], kand. ekonom. nauk, red.; TARKAYLA, I., red.; SHARSHUL'SKIY, I.[Sharshul'ski, I.], tekhn. red.

[Practice in monetary wages and intrafarm accounting on a collective farm] Vopyt hrashovai aplaty pratsy i umutryhaspadarchaha razliku u kalhase. Pod red. S.G.Ausiannikava. Minsk, Dziarzh.vyd-va BSSR. Red. sel'skahaspadarchai lit-ry, 1961. 41 p. (MIRA 15:1)

(Collective farms—Income distribution)

AVSYUK, A.I.

The SUGR-10 self-propelled deep hole boring unit used in prospecting. Biul.tekh.-ekon.inform. no.8:5-7 '61. (MIRA 14:8)
(Boring machinery)

AVSYUK, G. A.

2.2-190

Avsiuk, G. A., O [illegible] [illegible] [illegible]. [Some problems of glaciology.] *Problemy [illegible]* [illegible] 13:122-141, 19[illegible] 3 figs., table, 14 refs. DLC—The author criticizes the failure of modern glaciology to regard glaciers as physical geographical entities whose characteristics are determined by their physical geographic environment and stresses the need for more data on thickness, thermodynamics and temperature regime of glaciers. On the basis of data obtained from the Tien Shan glaciers the author discusses the movement of mountain glaciers, the role of their temperature regime, gravitational flow, flow resulting from differences in pressure, impeded flow and the regulation of glaciers by drainage. The nature of and factors determining the erosive action of mountain glaciers are considered. *Subject Headings:* Glaciology; Tien Shan Mountains, Kirgiz Region, U.S.S.R.—(J.L.).

USSR/Geophysics - Research Stations Sep/Oct 51

"Tien-Shan High-Altitude Physicogeographical Station of the Institute of Geography, Academy of Sciences USSR," G. A. Avsyuk

"Iz Ak Nauk SSSR, Ser Geog" No 5, pp 94-101

Chon-Kzyl-Su River Valley on the north face of Terskey Ala-Tau in Tien-Shan (Issyk Oblast of Kirgiz SSR) was chosen in 1945 by Acad Sci USSR for location of the station. Construction began in 1946 and in 1947 hydrometeorological research was begun. The purpose of research is rational exploitation of natural sources. Results of research

205T60

USSR/Geophysics - Research Stations (Contd) Sep/Oct 51

on control of ice melting and regulation of thawed waters could be applied in water control of Caucasus and Middle Asia.

205T60

AVSYUK, G. A.

AVSYUK, G. A.

"Three Composite Glaciological Works of Foreign Authors," Problemy Fizicheskoy Geofrafii (Problems of Physical Geography), Vol. 16, Symposium, Moscow, 1951.

U-1483, 25 Sept 51
U-1874 ? (c 51)

AVSYUK, G. A.

Studies of glaciers at Tien'shanskaia Station. Vop. geog. 26, 1951.

SO: MLRA. April 1952.

Voprosy Geografii

AVSYUK, G. A.

Some data about glaciation and orography of the Ak-Shiyryak mountain mass, Trudy Inst. geog. AN SSSR, No. 49, 1952.

SO: MLRA. November 1952.

Trudy Instituta Geografii Akademii Nauk SSSR

AVSYUK, G. A.

BARANOV, A.N., laureat Stalinskoy premii, redaktor; LYSYUK, V.N., redaktor; SHUROV, S.I., redaktor; AVSYUK, G.A., doktor geograficheskikh nauk, redaktor; VITVER, I.A., professor, doktor geograficheskikh nauk, laureat Stalinskoy premii, redaktor; VOLKOV, N.M., professor, doktor geograficheskikh nauk, redaktor; GERASIMOV, I.P., akademik, redaktor; ZARUTSKAYA, I.P., dotsent, laureat Stalinskoy premii, redaktor; ZENKOVICH, V.P., professor, doktor geograficheskikh nauk, laureat Stalinskoy premii, redaktor; ISAKOV, I.S., professor, admiral flota v otstavke, laureat Stalinskoy premii, redaktor; KUDRYAVTSEV, M.K., general-leytenant tekhnicheskikh voysk, redaktor; LARIN, D.A., redaktor; MARUSOV, L.Ya., inzhener-podpolkovnik, redaktor; MURZAYEV, E.M., doktor geograficheskikh nauk, laureat Stalinskoy premii, redaktor; PAVLOV, V.V., inzhener-polkovnik, laureat Stalinskoy premii, redaktor; KOV, S.F., redaktor; SALISHCHEV, K.A., professor, doktor tekhnicheskikh nauk, redaktor; FILIPPOV, Yu.V., professor, doktor tekhnicheskikh nauk, redaktor; EDEL'SHTEYN, A.V., redaktor; GUNBINA, T.N., redaktor.

[World atlas] Atlas mira. Moskva, 1954. 283 p. (MLRA 7:9)

1. General'nyy gosudarstvennyy direktor topograficheskoy slushby (for Baranov) 2. Direktor topograficheskoy slushby (for Shurov) 3. Gosudarstvennyy direktor topograficheskoy slushby II ranga (for Lysyuk) 4. Direktor topograficheskoy slushby I ranga (for Gunbina, Larin, Sadchikov) 5. Direktor topograficheskoy slushby (for Edel'shteyn, Filippov) 6. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodezii i kartografii.

(Atlases)

AVSYUK, G. A.

USSR/ Geology

Card 1/1 Pub. 86 - 13/40

Author : Avsyuk, G. A. Cand. of Geogr. Sc.

Title : Artificial intensification of the thawing of mountain glaciers

Periodical : Priroda 3, 82-86, Mar 1954

Abstract : The problem of controlling and increasing the flow of mountain rivers and its great importance for the economy of Central Asia, is explained. Solar radiation and the warmth affecting the surface of glaciers, through heat exchange with the air, are the only known factors resulting in the thawing of glacier ice and snow. Means of speeding up (artificially) the thawing of mountain glaciers, are discussed. Tables; Illustrations.

Institution : Academy of Sciences USSR, Institute of Geography

Submitted : .....

AVSYUK, G.A.

Temperature measurement of ice of the Karabatkak Glacier. Trudy Inst.geog. no.64:76-122 '54. (MLRA 8:5)
(Karabatkak Glacier--Temperature) (Temperature--Karabatkak Glacier)

AVSYUK, G. A.

USSR/ Geology - Glaciers

Card 1/1 Pub. 45 - 2/18

Authors : Avsyuk, G. A.

Title : The temperature conditions of glaciers

Periodical : Izv. AN SSSR, Ser. geog. i geofizicheskaya, 1, 14 - 31, Jan-Feb 1955

Abstract : A study is made of the energy processes, which take place in glaciers, such as the conversion of kinetic energy into heat through friction as the ice is pulled along its course by gravity, or the energy used in the process of crystallization. In this study exact formulas are developed involving velocity, mass, degree of slope, etc., and to obtain the necessary data temperature measurements were taken in various glaciers and incorporated into a table under the headings: researcher, year, name of glacier, maximum depth, and temperature summer and winter. Map; table.

Institution : Acad. of Sc., USSR, Geographic Institute

Submitted :

AVSYUK, G.A.

Trip to Franz Josef Land. Izv.AN SSSR. Ser.geog. no.3:34-36 My-Je '55. (MLRA 8:9)

1. Institut geografii Akademii nauk SSSR.
(Franz Josef Land)

AVSYUK, G.A.

International Geophysical Year 1957-1958 and the U.S.S.R. glacialogical research for this period. Izv. AN SSSR Ser.geog. no.6:96-99 N-D '55. (Glaciers)
(MLRA 9:2)

[illegible], A. A., (and V. V. Markov and P. A. Shumskiy)

Geographical observations in an Antarctic "oasis". (In Russian) Moscow, U.S.S.R. Acad, Sci., 1956, (9p., map.

AVSYUK, G.A.; MARKOV, K.K.; SHUMSKIY, P.A.

Cold desert in the Antarctic. Izv.AN SSSR,Ser.geog.no.4:16-25 Jl-Ag '56. (MIRA 9:10)

1.Institut geografii Akademii nauk SSSR, Institut merzlotovedeniya Akademii nauk SSSR, Geograficheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V.Lomonosova.
(Antarctic regions)

AVSYUK, G.A.

Temperature of ice in glaciers. Trudy Inst.geog.ao.67:63-141 '56.
(Glaciers)
(MIRA 9:9)

AVSYUK, G.A.; MARKOV, K.K.; SHUMSKIY, P.A.

Geographic observations in an Antarctic "oasis." Izv.Vses.geog. ob-va 88 no.4:316-350 Jl-Ag '56. (MLRA 9:10)

(Antarctic regions--Physical geography)

GRAVE, N.A.; AVSYUK, G.A., otvetstvennyy red.; PAVLOVA, Ye.P., red.

[Studying ground ice, frozen rocks, loose glacial sediments, and modern geocrriological processes] Izuchenie podzemnykh l'dov, merzlykh gornykh porod, rykhlykh lednikovykh otlozhenii i sovremennykh geokriologicheskikh protsessov. Moskva, 1957. 12 p. (Osnovnye metodicheskie ukazaniia po gliatsiologicheskim issledovaniiam, no.13) (MIRA 11:7)

(Glaciers)

AVSYUK, G.A., prof., doktor geograf.nauk

[Program and general instructions for glaciological research during the International Geophysical Year, 1957-1958] Programma i obshchie ukazaniia po provedeniiu gliatsiologicheskikh issledovanii Mezhdunarodnogo Geofizicheskogo Goda, 1957-1958 gg. Moskva, Mezhdunar. Geofizicheskii God, 1957. 30 p. (MIRA 12:11)

1. International Geophysical Year.
(International Geophysical Year, 1957-1958)
(Ice)

TUSHINSKIY, G.K., prof.; AVSYUK, G.A., prof., otvetstvennyy red.; PAVLOVA, Ye.P., red.

[No.6. Studying the snow cover; no.7. Observations on firns; No.8. Observing avalanches; No.9. Observing snow transport by snowstorms] No.6. Izuchenie snezhnogo pokrova; No. 7. Nabliudeniia na snezhnikakh; No.8. Nabliudenii za lavinami; No.9. Nabliudeniia za metelevym perenosom sneega. Moskva, 1957 63 p. (Osnovnye metodicheskie ukazaniia po gliatsiologicheskim issledovaniiam) (MIRA 11:9)
(Snow)

AVSYUK, G.A.

Popov, I.V

5(4,5) PHASE I BOOK EXPLOITATION SOV/1655

Akademiya nauk SSSR. Komitet po geodezii i geofizike.

Tezisy dokladov na XI General'noy assamblyee Mezhdunarodnogo geodezicheskogo i geofizicheskogo soyuza. Mezhdunarodnaya assotsiatsiya nauchnoy gidrologii (Abstracts of Reports Submitted to the 11th General Assembly of the International Union of Geodesy and Geophysics. The International Association of Scientific Hydrology) Moscow, 1957. 101 p. /Parallel texts in Russian and English or French/ 1,500 copies printed.

No additional contributors mentioned

PURPOSE: This booklet is intended for hydrologists and civil engineers.

COVERAGE: This collection of abstracts covers reports presented at the 11th General Assembly of the International Union of Geodesy and Geophysics on hydrological, erosional, and glaciological processes. Studies related to problems of underground waters, snow, and rivers are also discussed. The abstracts are in Russian, with English or French translations. Those appearing in English are designated by a single asterisk; those in French by two. There are no references given.

Card 1/4

AVAILABLE: Library of Congress (GB659.A37)

Card 4/4

AVSYUK, G.A.

The Third Antarctic Conference. Mezhdunar. geofiz. god no.2:61-68 '57. (MIRA 11:1)

(Paris--Geophysics--Congresses) (Antarctic regions)

AVSYUK, G.A.

Preparation for the International Geophysical Year of 1957-1958.
Izv. AN SSSR Ser. geog. no.2:158-162 Mr-Ap '57. (MIRA 10:12)
(International Geophysical Year, 1957-1958)

AVSYUK, G. [redacted] doktor geograficheskikh nauk.

Glaciological investigations by Soviet scientists. Priroda 46 no.7:55-56 Jl '57. (MLRA 10:8)

1. Institut geografii Akademii nauk SSSR, Moskva.
(Glaciers)

AVSYUK, Grigoriy Aleksandrovich (Prof)

"Present Glacialization of the Arctic,"

paper presented at the National Acad. of Sci (U.S.) - Arctic Sea Ice Conf., Easton Md., 24-27 Feb 58

comments - B-3,800,702

10-58-2-1/30

AUTHORS: Avsyuk, G.A., Gal'tsov, A.P., Iveronova, M.I., Meshcheryakov, Yu.A.

TITLE: At the XIth General Assembly in Toronto of the International Union of Geodesy and Geophysics (IUGG) (Na XI general'noy assambleye mezhdunarodnogo soyuza geodezii i geofiziki (IUGG) v Toronto)

PERIODICAL: Izvestiya Akademii nauk SSSR - Seriya geograficheskaya, 1958, Nr 2, pp 3-8 (USSR)

ABSTRACT: The XIth General Assembly of the International Union of Geodesy and Geophysics convened in Toronto from 3 to 14 September 1957. The USSR was represented by a delegation consisting of 54 scientists headed by Academician I.P. Bardin. The Soviet geographers G.A. Avsyuk, A.P. Gal'tsov, M.I. Iveronova and Yu.A. Meshcheryakov participated for the first time in a meeting of the Union. The conference was divided into various sections dealing with special fields. The conference heard the following Soviet reports: The Geodesists M.S. Molodenskiy, A.A. Izotov, Yu.D. Bulanzhe and M.I. Sinyagina on the achievements of Soviet science in the geodesy; V.V. Belousov, V.A. Magnitskiy, Ye.A. Lyubimova, V.I. Keylis-Borok and Yu.V. Reznichenko on seismological problems and questions concerning the physical structure of the Earth's deposits; G.A. Avsyuk on glacial research work

Card 1/3

10-58-2-1/30

At the XIth General Assembly in Toronto of the International Union of Geodesy and Geophysics (IUGG)

carried out in the USSR; A.M. Obukhov and A.S. Monin on meteorological questions, especially diffusion and convection. Special attention was paid to the reports of the Soviet scientists M.I. Sinyaginaya and Yu.A. Meshcheryakov on the study of present movements of the Earth crust in the European part of the USSR. M.I. Budyko dealt with the distribution of the components of the thermal balance of the Earth's surface. This report met with especially great interest since only the USSR has succeeded in preparing monthly charts on the components of the thermal balance all over the world, and what is even more important, in solving the problem of determining the evaporation taking place on the surface of dry land. Ye.P. Tolstik explorer of polar regions reported on Soviet research in the Arctic and Antarctic Zones within the International Geophysical Year. Due to the Soviet achievements in all these fields of science V.V. Belousov, Corresponding Member of the AS,USSR was elected Vice-President of the

Card 2/3

AVSYUK, G.A.

Fourth Antarctic conference. Mezhdunar.geofiz.god no.4:112-115 '58. (MIRA 11:11)

(Antarctic regions--Congresses)

AUTHOR: Avsyuk, G.A.

SOV/10-58-5-20/28

TITLE: The International Conference on Arctic Sea Ices Held in the USA in 1958 (Mezhdunarodnaya konferentsiya po morskim arkticheskim l'dam, proiskhodivshaya v 1958 godu v SShA)

PERIODICAL: Izvestiya Akademii nauk SSSR - Seriya geograficheskaya, 1958, Nr 5, pp 129-130 (USSR)

ABSTRACT: The International Conference on the study of Arctic sea ices was convened by the USA National Academy of Sciences and was held from 24 to 27 February 1958, at Easton (Maryland). Representatives from 9 countries participated in the Conference including the following Soviet delegates: Professor G.A. Avsyuk, Professor A.G. Kolesnikov, P.A. Gordiyenko, Deputy Director of the Arctics Institute and M.A. Ryazanov, Scientific Worker of the same institute. Information is presented on reports delivered during the Conference. The hospitable reception given to the Soviet delegates by scientists and private persons is stressed.

Card 1/1

AUTHOR: Avsyuk, G. A., Doctor of Geography SOV/30-58-7-20/49

TITLE: International Conference on the Arctic Ocean-Ice (Mezhdunarodnaya konferentsiya po morskim arkticheskim l'dam)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, Nr 7, pp. 98 - 99 (USSR)

ABSTRACT: This international conference was called by the American National Academy of Sciences in the USA at the end of February. It was attended by 80 delegates from 9 countries: England (Angliya), Denmark(Daniya), Canada, USSR, USA (SShA), Finland (Finlandiya), GFR(FRG), Sweden (Shvetsiya) and Japan (Yaponiya) and by the following delegates of the USSR: A.G.Kolesnikov, P.A.Gordiyenko, M.A.Ryazanov, and by the author of this article. The main subject of the conference was to extend the exchange of experience and opinion amongst scientists who occupy themselves with the investigation of the Arctic Ice in order to obtain a deeper understanding of the unsolved problems and for the purpose of encouraging scientists to carry out new investigations in this field. The Soviet Delegation submitted 7 reports which excited interest and caused an objective discussion. Further,

Card 1/2

AVSYUK, GA

SOV-26-58-9-11/42

AUTHOR: Gordiyenko, P.A., Candidate of Geographical Sciences

TITLE: Explorations of the Arctic Sea Ice (Issledovaniya morskikh arkticheskikh l'dov)

PERIODICAL: Priroda, 1958, Nr 9, pp 68-71)

ABSTRACT: The International Conference on Explorations of the Arctic Sea Ice, starting on 24 Feb 58 in Washington was visited by a Soviet delegation consisting of Professor G.A. Avsyuk from the Institut geografii AN SSSR (Institute of Geography of the AS USSR), Professor A.G. Kolesnikov from the Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova (Moscow State University imeni M.V. Lomonosov) and the assistants of the Arkticheskiy institut (Arctic Institute) A.M. Ryazanov and P.A. Gordiyenko. The Soviet scintists delivered 7 papers. The session on problems of deformation, growth and melting of sea ice was presided over by G.A. Avsyuk. He read the paper "The Contemporary Ice Cover of the Arctic", P.A. Gordiyenko, "The Drift of the Ice Masses in the North Ice Sea", A.G. Kolesnikov "The Growth of Sea Ice Masses". The following papers were also read: I.S. Peschanskiy "The Physico-Mechanical Properties of Arctic Ice and Methods of its Study", G.N. Yakovlev: "The Role of Solar Radiation in the Breaking-Up of Oceanic Ice", A.F. Laktionov "Methods of Ice Observation"

Card 1/2

Explorations of the Arctic Sea Ice

SOV-26-58-9-11/42

and A.A. Kirillov: "The Classification of Arctic Ice". The other delegations were interested in the observation and research results by Soviet scientists in Arctic and Antarctic regions and in the works of the oceanographer and polar scientist of Moscow University, Professor N.N. Zubov who has published the monograph "The Ice of the Arctic".

ASSOCIATION: Arkticheskiy nauchno-issledovatel'skiy institut Glavsevmorputi /Leningrad (The Arctic Scientific Research Institute of the Main Northern Sea Passage /Leningrad)

1. Ice--Artic regions

Card 2/2

AVSYUK, G.A., doktor geogr. nauk, otv. red.; PODOL'SKIY, A.D., red.; BRUZGULS, V.V., tekhn. red.

[Glaciological research during the International Geophysical Year] Gliatsiologicheskie issledovaniia v period MGG; sbornik statei. IX razdel programmy MGG (gliatsiologiia). Moskva, No.1. 1959. 100 p. (MIRA 14:8)

1. Akademiya nauk SSSR. Mezhduvedomstvennyy komitet po provedeniyu Mezhdunarodnogo geofizicheskogo goda.
(Glaciology)

AVSYUK, G.A., prof., otv.red.; KISLOV, V.L., red.

[Collection of materials of the Enlarged Conference of the Group of Workers in Glaciology at the Soviet Interdepartmental Committee for the International Geophysical Year, May 20-24, 1958, Moscow] Sbornik materialov rasshirennogo soveshchaniia rabochei gruppy po gliatsiologii Sovetskogo Mezhduvedomstvennogo komiteta Mezhdunarodnogo Geofizicheskogo Goda, 20-24 maia 1958 g. v Moskve. Moskva, 1959. 165 p. (MIRA 13:4)

1. Russia (1923- U.S.S.R.) Mezhduvedomstvennyy komitet po provedeniyu Mezhdunarodnogo Geofizicheskogo Goda.
(Glaciological research--Congresses)

2(5) SOV/20-59-2-17/29

AUTHOR: Avrgun G.A., Dzerdzeyevskiy V.L.

TITLE: In International Geographical Organizations Fifth - Moscow - Conference of the Special Committee of the International Geophysical Year (30/7 - 6/8/58)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geograficheskaya 1959, No 2, pp 177-178 (USSR)

ABSTRACT: The fifth conference of the Special Committee of the International Geophysical Year, held in Moscow from 30 July to 6 August 1958, was attended by more than 300 representatives of 39 out of the 65 countries participating in the IGY. The basic work was performed in symposia organized by 14 working teams respectively concerned with 1) world days (i.e. agreed periods of repeated and synchronized international observations) 2) meteorology (including weather forecast computing methods, meteorology of the Antarctic and problems concerning luminous clouds), 3) geomagnetism, 4) aurora borealis and

Card 1/4

SOV/10-59-2-17/29

In International Geographical Organizations Fifth - Moscow - Conference of the Special Committee of the International Geophysical Year(30/7 - 9/8/58)

night glow, 5) ionosphere and meteors, 6) solar activity, 7) cosmic rays, 8) latitudes and longitudes, 9) glaciology, 10) oceanography, 11) rockets and sputniks, 12) seismology, 13) gravimetry, 14) nuclear reactions. After the conference sessions of the Spetsial'nyy komitet po issledovaniyam Antarktiki (Special Committee for Investigations of the Antarctic) and its working teams were held. Much attention was paid to the preservation, exchange and publication of the results of the observations. The conference passed a number of resolutions enlarging the possibilities to utilize observation materials, and facilitating in this way the work of the "Mirovyye tsentry dannykh" ("World Data Centers"), institutions established in several countries of the world for the mentioned purpose. Moreover, the

Card 2/4

SOV/10-59-2-17/29

In International Geographical Organizations Fifth - Moscow - Conference of the Special Committee of the International Geophysical Year (30/7 - 9/8/58)

conference decided to continue the investigations on the present scale during the year 1959, calling it the year of "International Geophysical Collaboration". As to the departments of glaciology, oceanology, study of the Antarctic the conference resolved to continue the works also in the subsequent years. Among the Soviet scientists, O.G. Kritchak reported on the results of investigations of atmospheric circulations carried out by the Second Soviet Continental Antarctic Expedition. N.I. Grishin showed slow-motion pictures illustrating his report on "Wave Movements and Meteorological Conditions of the Appearance of Luminous Clouds". M.A. Grave of the Institut merzlotovedeniya AN SSSR (Permafrost Institute of the AS USSR) reported on a peculiar form of contemporaneous glaciation found in the region of Suntar-Khayata in the Yakut Autonomous SSR. ...

Card 3/4

SOV/10-59-2-17/29

In International Geographical Organisations Fifth - Moscow - Conference of the Special Committee of the International Geophysical Year (30/7 - 9/8/58)

Makarevich of the Kazakh AS supplied very interesting data on the thickness of loose deposits lying under the ice of the Tuyuksuyskiy glaciers of the Malaya Almaatinka valley in the Zailiyskiy Alatau (Trans-Ili Alatau). On the Tuyuksuyskiy glaciers a new method based on electrometric measurements was used, which permitted determination of the speed of deep ice layers. P.A. Shumskiy delivered a report on the "Results of Soviet Glaciological Investigations in the Antarctic". This report will be published in the next number of the "Byulleten' Komiteta MGG" (Bulletin of the Committee of the IGY") P.A. Shumskiy was also elected acting president of the glaciological team. There is 1 Soviet reference.

Card 4/4

SOV/10-59-3-27/32

AUTHORS: Geller, S.Yu., Avsyuk, G.A., Ivercnova, M.I., Neyshtadt, M. I., Preobrazhenskiy, V.S., Rantsman, Ye.Ya., Sobolev, L.N., Rozin, M.S.

TITLE: Book Reviews

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geograficheskaya, 1959, Nr 3, pp 142-148 (USSR)

ABSTRACT: Five new books are reviewed with a short description of each.

Card 1/1

AVSIUK, G.A.

Present state of glacier study in the Soviet Arctic. Probl. Sev. no.3: 180-189 '59. (MIRA 13:4)

1. Otdeleniye geologo-geograficheskikh nauk AN SSSR.
(Russia, Northern--Glaciers)

ZAKIYEV, Kh.Ya.; AVSIUK, G.A., otv.red.; OGANOVSKIY, P.N., red.

[Third Antarctic Continental Expedition; snow cover] Tret'ia kontinental'naia antarkticheskaia ekspeditsiia; snezhnyi pokrov. Moskva, 1960. 38 p. (Materialy gliatsiologicheskikh issledovanii). (MIRA 14:3)

1. Akademiya nauk SSSR. Institut geografii.
(Antarctic regions--Snow)

PREOBRAZHENSKIY, V.S.; AVSYUK, G.A., prof., doktor geograf.nauk, otv.red.; SHCHUKINA, Ye.P., red.; POLENOVA, T.P., tekhn.red.

[Kodar glacier area (Transbaikalia)] Kodarskii lednikovyi raion (Zabaikal'e). Moskva, Izd-vo Akad.nauk SSSR, 1960. 71 p. (IX razdel programmy MGG (gliatsiologiia), no.4).

(MIRA 13:12)

(Kodar Range--Glaciological research)

SHUMSKIY, P.A.; KARTASHOV, S.N.; KOTLYAKOV, V.M.; AVSYUK, G.A., otv.red.; OGANOVSKIY, P.N., red.

[Second Antarctic Continental Expedition; snow cover] Vtoraia Kontinental'naia Antarkticheskaia ekspeditsiia; snezhnyi pokrov. Moskva. (Materialy glialsiologicheskikh issledovanii). No.4. [Field investigations in the zone of katabatic winds at the Vostok-I and Komsomolskaya Stations] Marshrutnye issledovaniia v zone stokovykh vetrov, na st.Vostok-I i na st. Komsomol'skaia. 1960. 123 p. (MIRA 14:3)

1. Akademiya nauk SSSR. Institut geografii.
(Antarctic regions--Snow)

AVSYUK, G.A., otv.red.; OGANOVSKIY, P.N., otv.red.; PODOL'SKIY, A.D., red.; YEGOROVA, N.F., tekhn.red.

[Glaciological research; collection of articles] Gliatsiologicheskie issledovaniia; sbornik statei. IX razdel programmy MGG (gliatsiologiia). Moskva. No.5. 1960. 133 p.

(MIRA 13:12)

1. Akademiya nauk SSSR. Mezhduvedomstvennyy komitet po provedeniyu Mezhdunarodnogo geofizicheskogo goda. 2. Chlen-korrespondent AN SSSR (for Avsyuk).

(Glaciological research)

MARKIN, V.A.; AVSYUK, G.A., otv.red.; OGANOVSKIY, F.N., red.

[Franz Josef Land; meteorology] Zemlia Frantsa-Iosifa; meteorologiia. Moskva. (Materialy gliatsiologicheskikh issledovanii). No.3. [Actinometric observations] Aktinometricheskie nabliudeniia. 1960. 134 p. No.4. [Actionometric observations] Aktinometricheskie nabliudeniia. 1960. 148 p.

(MIRA 14:3)

1. Akademiya nauk SSSR. Institut geografii.
(Franz Josef Land--Solar radiation)

KOTLYAKOV, V.M.; KUZNETSOV, M.A.; AVSYUK, G.A., otv.red.; OBANOVSKIY, P.N., red.

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(Antarctic regions--Snow)

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D228/D304

AUTHOR: Avsyuk, G. A.

TITLE: Glaciology

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TEXT: In the author's opinion, the science which studies contemporary land glaciers should retain its previous name -glaciology. But another new name ought to be selected for the science incorporating the study of all forms of natural ice. The development of domestic glaciologic research is subdivided into 4 periods. The first embraces the time from the sixties of the last century up to the beginning of the 2nd International Polar Year (descriptive glaciologic works with a geologic-geomorphic bent and the development of the hydrometeorologic approach to the study of glaciers at the end of the period). The second period is the 2nd I.P.Y.

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of 1932-1933. At this time, most Soviet glaciologists adhered to the conviction that a glacier is a unique physico-geographical object, whose fruitful scientific study is possible only on the basis of a complex geographic approach with the obligatory application of precise and systematic methods of observation. The results of glaciologic research in the 2nd I.P.Y. were reflected in the "Transactions of glacier expeditions of the 2nd I.P.Y." and were summarized in S. V. Kalesnikov's work, "Mountain glaciers of the USSR's districts." During the third period--after the 2nd I.P.Y. to the beginning of the I.G.Y. (1933-1957) -came the further deepening and widening of glaciologic research with the introduction of systematic working methods and quantitative observational procedures. The whole complex of natural processes peculiar to glaciers is in the sphere of interest of Soviet glaciologists. Different factors of glaciation and its connection with the orographic and climatic conditions were studied. A number of original works on various questions of glaciology were created on the basis of factual data. At the end of the period, it was clear that the subsequent development of glaciologic work should

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emerge as the development of stationary investigations with the application of the latest techniques, covering long intervals of time (at least yearly cycles) and conducted in areas of contemporary glaciation with diverse natural conditions. Soviet glaciology started to elaborate these questions on a broad front from 1957, i.e., from the beginning of the conducting of the work of the I.G.Y. program (the fourth period). From 1957 to the end of 1959, Soviet glaciologists undertook continuous systematic observations in 10 areas of contemporary glaciation on the USSR's territory as well as in Antarctica. There are grounds for asserting that both the general glaciologic patterns and their zonal and regional peculiarities--which may be principally connected with the water and heat conditions of the land surface--will be made apparent on the basis of the data of the I.G.Y. 29 references. [Abstracter's note: Complete translation.]

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