"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BYLINOV, V.A.

Use of slags from open-hearth and electrosmelting furnaces for binding and reclaiming sandy land.

Les. khoz. no. 1, 1952

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

S/089/61/011/006/012/014
B102/B138

AUTHORS: Plaksin, I. N., Belyakov, M. A., Starchik, L. P.

TITLE: Po^{210}-α-indiced radioluminescence for analysis of ores and minerals

PERIODICAL: Atomnaya energiya, v. 11, no. 6, 1961, 548 - 549

TEXT: As the usual analyzers based on radio- or cathode-luminescence, as designed as the "Mekhanobor" Institute for instance, are too heavy for field conditions and depend on power supply, a new device has been designed. Pure Po^{210}-α-radiation (E = 5.3 Mev, range in air 3.8 cm) was used for luminescence activation. The device is shown in Fig. 1. Powdered or ground ore samples are placed on a plate at the bottom of the vessel and luminescence is observed with the naked eye or through a lens. The α-source used had an activity of 1.8 curies. The minerals are identified according to color, brightness, and afterglow:

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Po^{210}-α-induced...

Mineral	Color	Brightness	Afterglow
calcite	red	high	weak
dolomite	dull red	very high	weak
fluorite	bluish violet	very high	strong
scheelite	violet	weak	very weak
beryl	light blue	weak	very weak

Intensive radioluminescence is also observed when diamonds undergo α irradiation and for this reason it is used, instead of gamma, for grading Yakutsk diamonds. For quantitative analyses a photocell was used. The photocell, a multiplier of the type ФЭУ-1 (FEU-1), was fed via a "Kaktus" radiometer. This experimental setup was tested when determining scheelite with a 70-μcurie Po^{210} source. It was then used to compare the luminescence intensities of scheelite induced by β and α-radiation from emitters of equal activity. α-radiation was found to be about four times more effective for luminescence activation. There are 3 figures, 2 tables, and 5 Soviet references.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

S/020/61/136/005/031/032
B103/B208

AUTHORS: Plaksin, I. N., Corresponding Member AS USSR,
Belyakov, M. A., and Starchik, L. P.

TITLE: Application of radioluminescence caused by α-particles of polonium-210 for the analysis of ores and minerals

PERIODICAL: Doklady Akademii nauk SSSR, v. 136, no. 5, 1961, 1165-1167

TEXT: The authors suggest the application of radioluminescence in the analysis of ores and minerals, which offers certain advantages. It may replace successfully the cathode luminescence already applied to a large extent (Ref. 2). This latter method requires vacuum and high-frequency. Although the apparatus devised at the "Mekhanobr" Institute (Ref. 3) is a suitable construction, it cannot always expediently be operated owing to its high weight and the necessity of current supply. In the radioluminescence method, however, only a radioactive isotope is required, in this case polonium-210 which serves as α-radiation source. This offers the following advantages: 1) α-radiation gives a much more intense luminescence than the β- or γ-radiation of equal activity; 2) α-radiation

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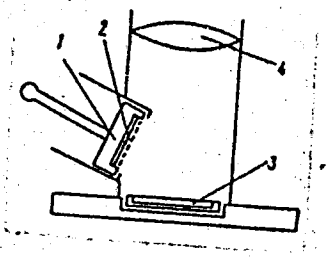
Application of radioluminescence ...

is not accompanied by any other radiation (except one γ-quantum per 10^5 α-particles); 3) for this reason the application of this radiation source is rather simple; 4) the penetrating power of α-radiation is low, which simplifies the required apparatus in spite of the high activity of Po-210 (1.8 curie was applied). Fig. 1 shows such a device.



5) The α-source may be used to determine elements on the basis of nuclear reactions (Refs. 4,5). 6) The luminescence of minerals is observed either by the naked eye or (in the case of finely divided substances)

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Application of radioluminescence...

by means of a strong lens (4). The following safety measures are necessary: the Po-210 sources contaminate the surrounding objects by aggregate recoil. To counteract this, the Po-210 layer is screened by a protective film or a thin foil, which does not absorb α-radiation, or such a film may be also mounted on the surface of the α-source. The resultant energy losses reduce the production of luminescence, but may be compensated by increased activity of the α-source. The samples in the form of powders or lumps (up to a size of 20 mm) are irradiated on the plate of the mentioned device (3) by the α-source (2) in a holder (1). The method of analysis resembles that described in Ref. 3. The authors studied the luminescence of the following minerals: calcite, dolomite, scheelite, fluorite, and beryl. The diamonds of Yakutiya show a luminescence visible even at daylight. The luminescence of Tl-204 as β-radiation source (activity 70 millicuries) which was studied for comparison purposes, appeared only slightly in scheelite and in diamonds, while that caused by the α-source of equal activity was visible even at daylight. There are 1 figure, 2 tables, and 5 Soviet-bloc references.

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S/020/61/136/005/031/032
B103/B208

Application of radioluminescence ...

ASSOCIATION: Institut gornogo dela Akademii nauk SSSR
(Mining Institute, Academy of Sciences, USSR)

SUBMITTED: November 15, 1960

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APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

PLAKSIN, I.N.; BELYAKOV, M.A.; RENTYRGIN, V.L.; STARCHIK, L.P.

Use of nuclear reaction (α,n) for the determination of certain elements in solutions. Dokl. AN SSSR 139 no.2:424-426 Jl '61. (MIRA 14:7)

1. Chlen-korrespondent AN SSSR (for Plaksin).
(Nuclear reactions) (Chemistry, Analytical)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

S/020/61/141/004/015/019
B101/B110

AUTHORS: Plaksin, I. N., Corresponding Member AS USSR, Belyakov, M. A., and Starchik, L. P.

TITLE: Application of gamma quanta produced by interaction of α-particles with nuclei of fluorine and boron for determining these elements in concentration products

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 141, no. 4, 1961, 921 - 924

TEXT: In previous papers (DAN, 127, no. 3, 618 (1959); Atomnaya energiya, 9, no. 5, 361 (1960)) the authors applied the (α,n) reaction for determining F and B in concentration products (flotation concentrates). Be, B, and Li, however, were interfering with the determination of F. B was also determinable by induced radioactivity (DAN, 128, no. 6, 1208 (1959)). The application of nuclear gamma ray spectroscopy facilitates the determination of B and F in the presence of other elements having a high gamma quantum yield on the basis of the (α,n) reaction. The following data from publications are cited: In the nonelastic scattering of α-particles on F^{19} nuclei, 0.09 and 0.22-Mev gamma quanta are produced. Ne^{22} produced by the reaction $F^{19}(\alpha,p)Ne^{22}$

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Application of gamma quanta...

emits 1.24 and 1.50-Mev gamma quanta. The reaction $F^{19}(\alpha,n)Na^{22}$ results in Na^{22} emitting 0.62-Mev gamma quanta. The gamma ray spectrum arising from the interaction of α-particles with boron nuclei contains 2.3 and 3.8-Mev gamma quanta. The former are a product of the reactions $B^{10}(\alpha,n)N^{13}$ and $B^{11}(\alpha,n)N^{14}$, while 3.8-Mev gamma quanta result from the reaction: $B^{10}(\alpha,p)C^{13}$. The advantage of gamma ray spectroscopy is that the accuracy of recording of the gamma quanta is by one order of magnitude higher than that of recording of the neutrons. For this reason, α-emitters of low activity may be used. While for determining B and F on the basis of the (α,n) reaction an α-source of 250 mc was required, gamma ray spectroscopy could be performed using a Po^{210} α-source with an activity of only 5 mc. The α-source is oriented directly to the box containing the material to be investigated. For protection against aggregate recoil, the surface of the α-source was coated with a heavy-metal film. Recording was performed by NaI(Tl) crystal, УСД-1 (USD-1) attachment, УШ-2 (USh-2) wideband amplifier discriminator,

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Application of gamma quanta...

and ПС-10,000 (PS-10,000) scaler. On the basis of the intensity of 1.24-Mev gamma quanta calibration curves were plotted for the concentration of fluorite in feldspar. Al was not interfering with the determination. F may be also determined in beryl concentrates due to beryl emitting 3.43 - 4.45-Mev gamma quanta. It was found: $N_{CaF_2} = N_{1.24} - 0.51N_{3.4}$, where $N_{1.24}$ = intensity of counting of the 1.24-Mev gamma quanta; $N_{3.4}$ = intensity of counting of gamma quanta > 3.4 Mev. In addition, B_2O_3 was also determined by gamma ray spectroscopy in mixtures of ascharite and dolomite by discrimination of gamma quanta < 2 Mev. The relative error is 10-20% for 6% fluorite (or ascharite). The determination takes 30 min. For higher accuracy and reducing the time of analysis, the activity of the α-source must be raised to 0.5 c. In this case, the determination of 0.390 and 0.470-Mev gamma quanta of lithium should be possible. An advantage of the method is its selectivity and the small quantity of sample required (in the order of magnitude of tenths of a gram). The method is also applicable to the quantitative determination of B and F in solutions

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

Application of gamma quanta...

and molten material. There are 4 figures and 7 Soviet references.

ASSOCIATION: Institut gornogo dela Akademii nauk SSSR (Mining Institute of the Academy of Sciences USSR)

SUBMITTED: July 21, 1961

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

32322

S/020/61/141/005/017/018
B101/B144

21.4100

AUTHORS: Plaksin, I. N., Corresponding Member AS USSR, Belyakov, M. A., Malysheva, N. G., and Starchik, L. P.

TITLE: Use of (γ,n) nuclear reactions for determining beryllium in solutions and in the solid phase of suspensions

PERIODICAL: Akademiya nauk SSSR. Doklady, v.141, no. 5, 1961, 1158 - 1160

TEXT: The (γ,n) reaction shows high selectivity since Be has a very low excitation threshold (1.63 Mev). On irradiating samples containing Be with 1.63 - 2.2 Mev gamma quanta, neutrons are only knocked out of Be. The neutron quantity is proportional to the beryllium content. Basing on this fact, the authors developed their method of determining Be in flotation suspensions. Sb^{124} of 1-mcu activity was used as a gamma source placed in a paraffin block. 400-cm^3 bulbs containing solution or suspension were established into a cylindrical channel located in this block. The neutrons

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Use of (γ,n) nuclear reactions ...

moderated in paraffin were recorded by an CHMO-5 (SNMO-5) counter with an C4-3 (SCh-3) attachment for neutron counting. The calibration curve was plotted by means of aqueous $BeSO_4$ solutions. For low activity of Sb^{124} and 30-min counting time, the relative error of measurement was 1.5%. Li has a disturbing effect due to its large capture cross section. Above 50% Li content, the number of neutrons counted decreases almost linearly with increasing Li content. The error caused by Li can be compensated by reducing the volume of the solution to be analyzed and by a higher activity of Sb^{124} used. For a high content of elements with large capture cross section, it is better to use the (α,n) reaction. In Be suspensions, sedimentation has to be prevented by an electrically driven impeller. Determination of Be was carried out in mixtures of $3BeO \cdot Al_2O_3 \cdot 6SiO_2$ (beryl) and $KALSi_3O_8$ (feldspar). The solid/liquid ratio has no effect. Because of the low Li content (8%), the effect of spodumene is within the error limits. The (γ,n) reaction permits a continuous determination of Be in flotation suspensions by passing the suspension through the paraffin block, and by

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Use of (γ,n) nuclear reactions ...

recording the neutrons counted. A study by B. S. Aydarkin et al. of 1940 (Tr. Radiyevogo inst. AN. SSSR, 5, no. 2 (1957)) is mentioned. There are 4 figures and 4 references: 3 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: A. M. Gaudin, J. H. Pannel, Anal. Chem., 23, 1261 (1951).

SUBMITTED: August 12, 1961

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APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M.A.

Using α-radiation to study conditions affecting the determination of beryllium, fluorine, and boron in products of ore dressing. Nauch. soob. IGD 16:104-113 '62. (MIRA 16:8)
(Ore dressing) (Mineralogy, Determinative)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

S/089/62/013/004/007/011
B102/B108

AUTHORS: Plaksin, I. N., Belyakov, M. A., Starchik, L. P.

TITLE: Use of γ-spectroscopy for determining beryllium, boron, and fluorine in dressing products from the γ-radiation which attends nuclear interaction of these elements with α-radiation

PERIODICAL: Atomnaya energiya, v. 13, no. 4, 1962, 374 - 376

TEXT: As the selectivity of the neutron-spectroscopic determination of certain elements is insufficient it is suggested to use the γ-radiation which attends (α, n) and (α, p) reactions for analysis of elements. The γ-spectroscopic data required for analyzing Be, B, and F are presented and explained by several examples. (1) Be: The excited final nucleus produced in the reaction $Be^9(\alpha, n)C^{12}$ emits γ-quanta of 4.45 and 7.65 Mev which are characteristic of this reaction on Be^9. (2) F: In the reaction $F^{19}(\alpha, n)$ Na^{22} the final nucleus emits 0.62-Mev γ-quanta, and in the reaction F^{19} (α, p) Ne^{22} the Ne^{22} emits 1.24- and 1.5-Mev γ-quanta. (3) B: The reac-

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Use of γ-spectroscopy ...

tions $B^{10}(\alpha, n)N^{13}$ and $B^{11}(\alpha, n)N^{14}$ are accompanied by 2.3-Mev γ-radiation, and 3.8-Mev γ-quanta are emitted in the reaction $B^{10}(\alpha, p)C^{13}$. These quanta are always characteristic and make selective determination possible. The 4.45-, 2.3-, and 1.24-Mev peaks were used to analyze Be, B, and F, respectively. The α-source was a plane Po^{210} source of 2 - 5 millicuries. γ-recording was done using a УСА-1 (USD-1) scintillation element with an NaI(Tl) crystal and a broad-band УШ-2 (USh-2) discriminating amplifier with a ПС-10000 (PS-10000) rate meter. The determination of Be was checked using a mixture of $Be_3Al_2 \cdot Si_6O_{18}$ and CaF_2. After correction for the γ-background the mean statistical error involved in determining beryllium oxide in various mixtures of beryllium oxide and fluorites was 15% with 30-min counting. The γ-counting rate in such samples was determined for 1.24 and > 3.4 Mev. The ratio C between these count rates opens a way to determine the fluorite content of samples which contain beryl by the formula $\beta CaF_2 = \beta BeOK$, where $K = [CaF_2]/[BeO]$. As $C = C_{Be} = 0.51$ for pure beryl, the γ-counting rate for α,F-reactions is given by $N_{CaF_2} = N_{1.24} - C_{Be}N_{3.4}$, where $N_{1.24}$ and $N_{3.4}$ denote the count rates for $E_\gamma = 1.24$ Mev and $E_\gamma > 3.4$

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Mev, respectively. Hence the fluorite content of the sample is given by $\eta = N_{CaF_2}\eta_{st}/\eta_{st}$, where η_{st} is the fluorite content of a standard. The method of count-rate ratios can also be used for analyzing samples which have more than two components, as is shown here by the determination of BeO, B_2O_3, and CaF_2 in a sample containing ascharite. The boron content is determined from $N_{B_2O_3} = N_{2.2}-C'_{Be}N_{3.4}$, where $C'_{Be} = N_{2.2}/N_{3.4}$ for pure beryl. Fluorite is determined from $N_{CaF_2} = N_{1.2}-C_BN_{2.2}+KN_{3.4}$, where $K = C'_{Be}C_B-C''_{Be}$. $C''_{Be} = N_{1.2}/N_{3.4}$ for pure beryl and, $C_B = N_{1.2}/N_{2.2}$ for pure ascharite. There are 4 figures.

SUBMITTED: March 9, 1962

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

PLAKSIN, I.N.; BELYAKOV, M.A.; STARCHIK, L.P.

Use of nuclear reaction (γ,n) for the determination of beryllium in concentration products. Dokl. AN SSSR 142 no.2:374-376 Ja '62. (MIRA 15:2)

1. Institut gornogo dela im. A.A.Skochinskogo AN SSSR.
2. Chlen-korrespondent AN SSSR (for Plaksin).
(Beryllium--Analysis)
(Nuclear reactions)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

PLAKSIN, I.N.; BELYAKOV, M.A.; STARCHIK, L.P.

Use of γ-spectroscopy in determining beryllium, boron, and fluorine in products enriched by γ-radiation accompanying the interaction between nuclei of these elements and α-rays. Atom. energ. 13 no.4:374-376 O '62. (MIRA 15:9)
(Gamma-ray spectrometry) (Nuclear reactions)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

PLA[redacted]IN, I.N.; BELYAKOV, M.A.; STARCHIK, L.P.

Measuring the thickness of foils and films with the aid of the $(\alpha, n\gamma)$ nuclear reaction. Prib. i tekh. eksp. 8 no.5:210-211 S-O '63. (MIRA 16:12)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

L 12836-63 EWT(m)/BDS AFFTC/ASD 52

ACCESSION NR: AP3003223 S/0020/63/150/006/1270/1273

AUTHOR: Plaksin, I. N. (Corr. member, AN, SSSR); Belyakov, M. A., Starchik, L.P

TITLE: On the possibility of selective determination of certain light elements by measurement of the yield of nuclear reactions (Alpha, nGamma) and (Alpha, pGamma) 19

SOURCE: AN SSSR. Doklady*, v. 150, no. 6, 1963, 1270-1273

TOPIC TAGS: nuclear reaction, radioactive determination, light element, polonium, Alpha-particle

ABSTRACT: The probability for the penetration of the potential barrier of the nucleus by alpha particles increases greatly with the energy of the latter. The potential barrier increases with the atomic number. The authors utilized the low barrier and the high yield of the light elements for their quantitative determination in the pressure of heavier elements. Polonium^{210} was the source of alpha particles, which were filtered by thin layers of metals. The energy of filtered particles was in the 3 to 4 Mev range, suitable for the selective reactions derived. For instance, for determination of Be in presence of F, two

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ACCESSION NR: AP3003223

determinations - one with, another without filter are needed. Two equations for the yields from both elements are set up, the solution of which gives the quantity of Be present in the specimen. The filters must be calibrated with known concentrations. Orig. art. has: 3 figures and 4 equations.

ASSOCIATION: none

SUBMITTED:	16Jan63	DATE ACQ:	24Jul63	ENCL:	00
SUB CODE:	PH, EL	NO REF SOV:	006	OTHER:	002

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M.A., inzh.

Filtration of alpha radiation for the selective determination of some elements from the variation in the yield of secondary radiation of nuclear reactions (α, $n\gamma$) and (α, $p\gamma$). Nauch. soob. IGD 19:58-66 '63. (MIRA 17:2)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

PLAKSIN, I.N.; ARCHEVSKIY, E.V.; BELYAKOV, M.A.

"Use of polonium-boron neutron emitter in the analysis of ores and products of dressing for aluminum. Dokl. AN SSSR 163 no.5:1202-1204 Ag '65. (MIRA 18:8)

1. Chlen-korrespondent AN SSSR (for Plaksin).

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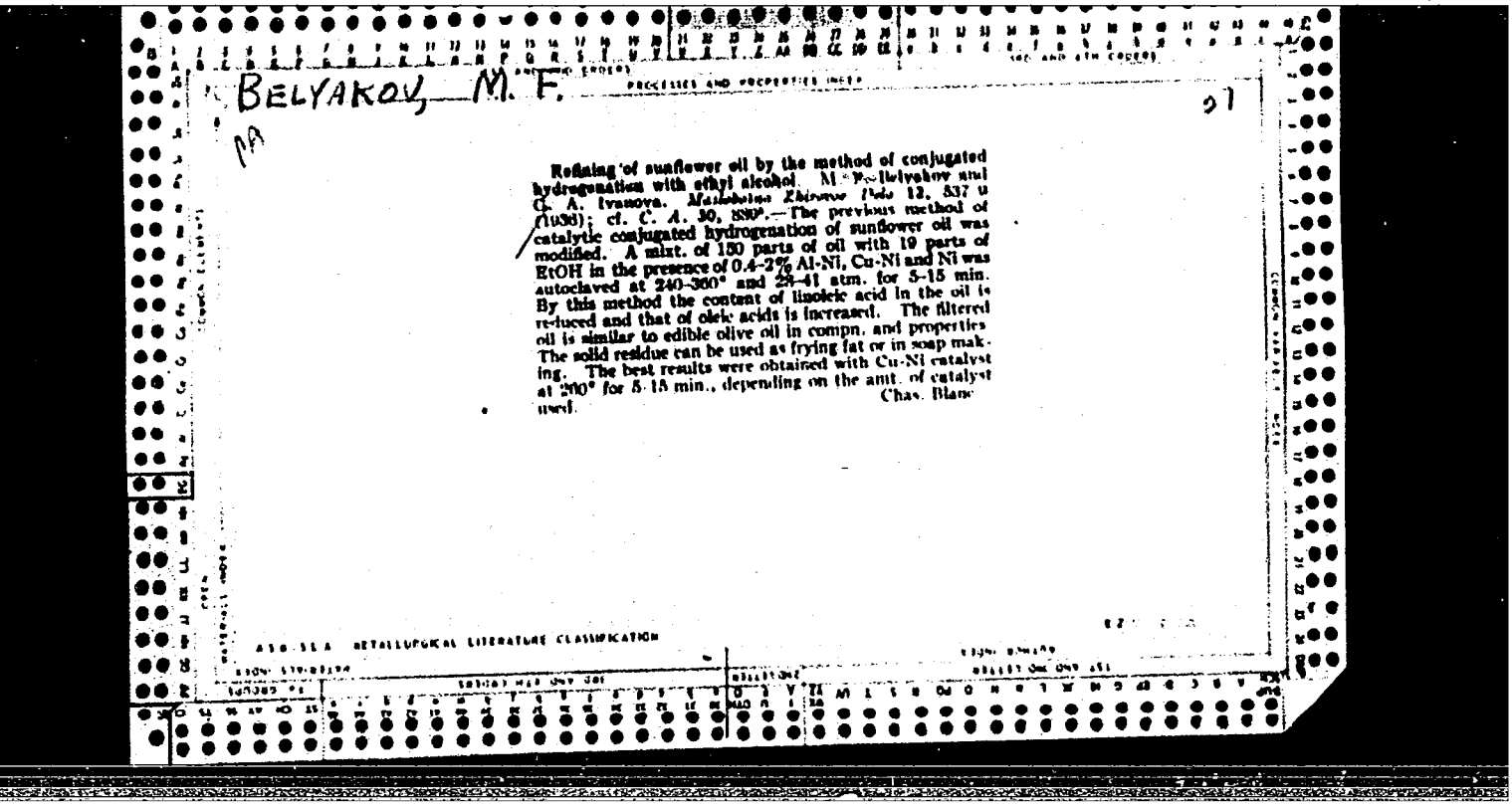

BELYAKOV, M. F.

PA

Refining of sunflower oil by the method of conjugated hydrogenation with ethyl alcohol. M. F. Belyakov and G. A. Ivanova. *Maslobolno Zhirovoe Delo* 12, 537-9 (1936); cf. *C. A.* 30, 8809.—The previous method of catalytic conjugated hydrogenation of sunflower oil was modified. A mixt. of 150 parts of oil with 19 parts of EtOH in the presence of 0.4-2% Al-Ni, Cu-Ni and Ni was autoclaved at 240-360° and 28-41 atm. for 5-15 min. By this method the content of linoleic acid in the oil is reduced and that of oleic acids is increased. The filtered oil is similar to edible olive oil in compn. and properties. The solid residue can be used as frying fat or in soap making. The best results were obtained with Cu-Ni catalyst at 200° for 5-15 min., depending on the amt. of catalyst used.

Chas. Blanc

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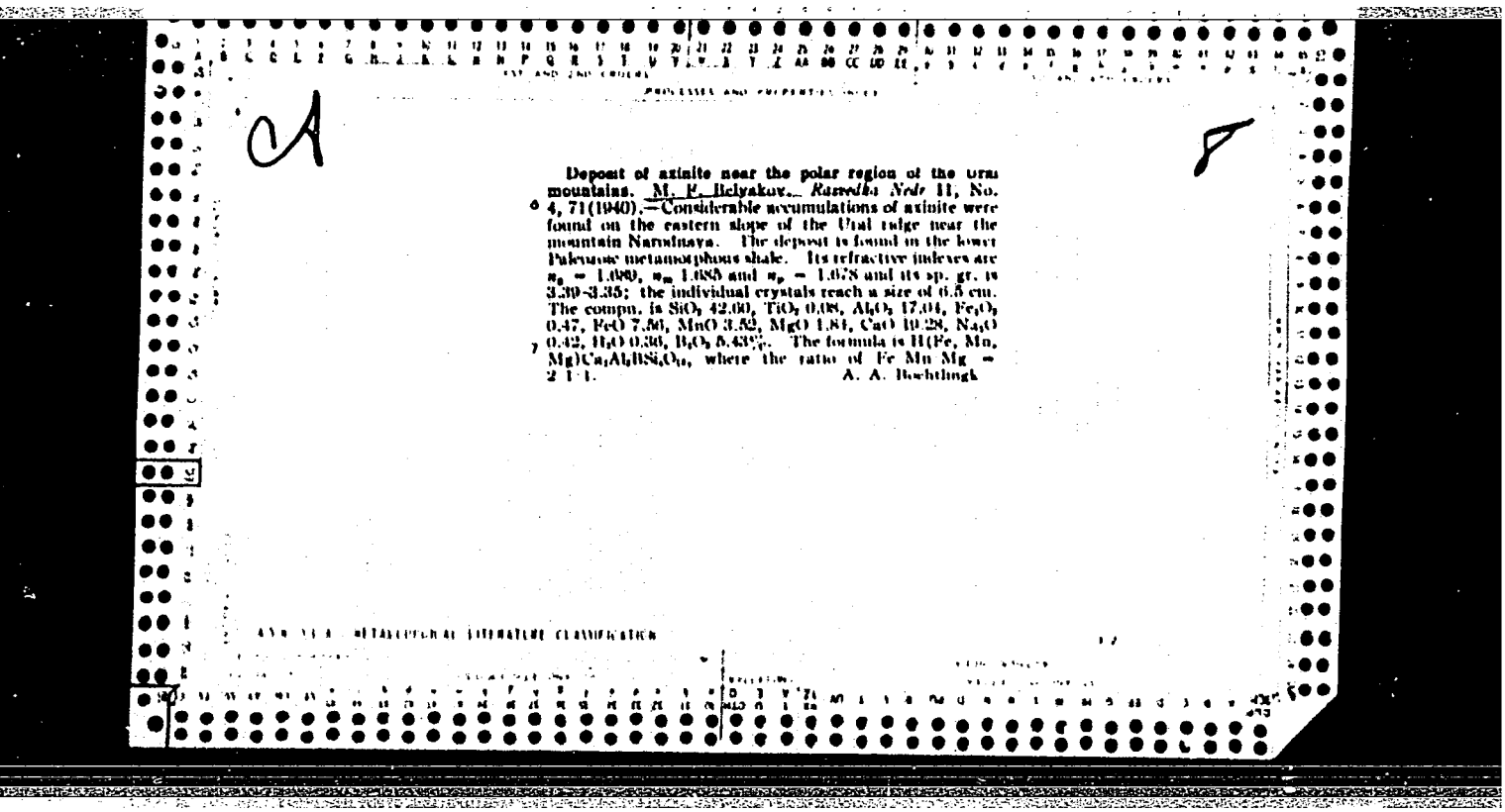

Deposit of axinite near the polar region of the Ural mountains. M. F. Ilelyakov. *Razvedka Nedr* 11, No. 4, 71(1940).—Considerable accumulations of axinite were found on the eastern slope of the Ural ridge near the mountain Narodnaya. The deposit is found in the lower Paleozoic metamorphous shale. Its refractive indexes are $n_g = 1.690$, n_m 1.685 and $n_p = 1.678$ and its sp. gr. is 3.30-3.35; the individual crystals reach a size of 6.5 cm. The compn. is SiO_2 42.00, TiO_2 0.08, Al_2O_3 17.04, Fe_2O_3 0.47, FeO 7.50, MnO 3.52, MgO 1.81, CaO 19.28, Na_2O 0.42, H_2O 0.30, B_2O_3 6.43%. The formula is $H(Fe, Mn, Mg)Ca_4Al_2BSi_4O_{16}$, where the ratio of Fe Mn Mg = 2 1 1.

A. A. Bukhtiyuk

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

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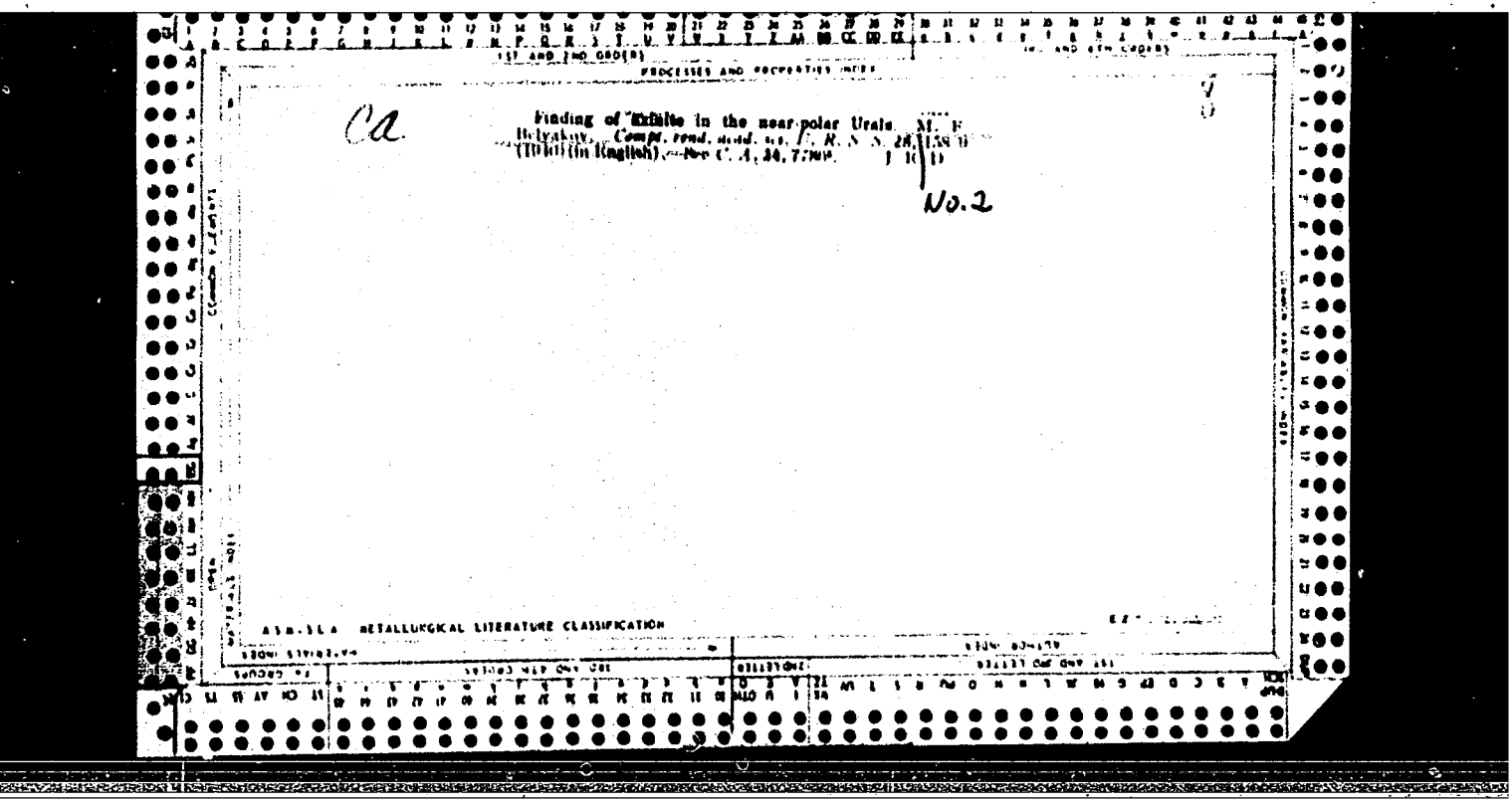

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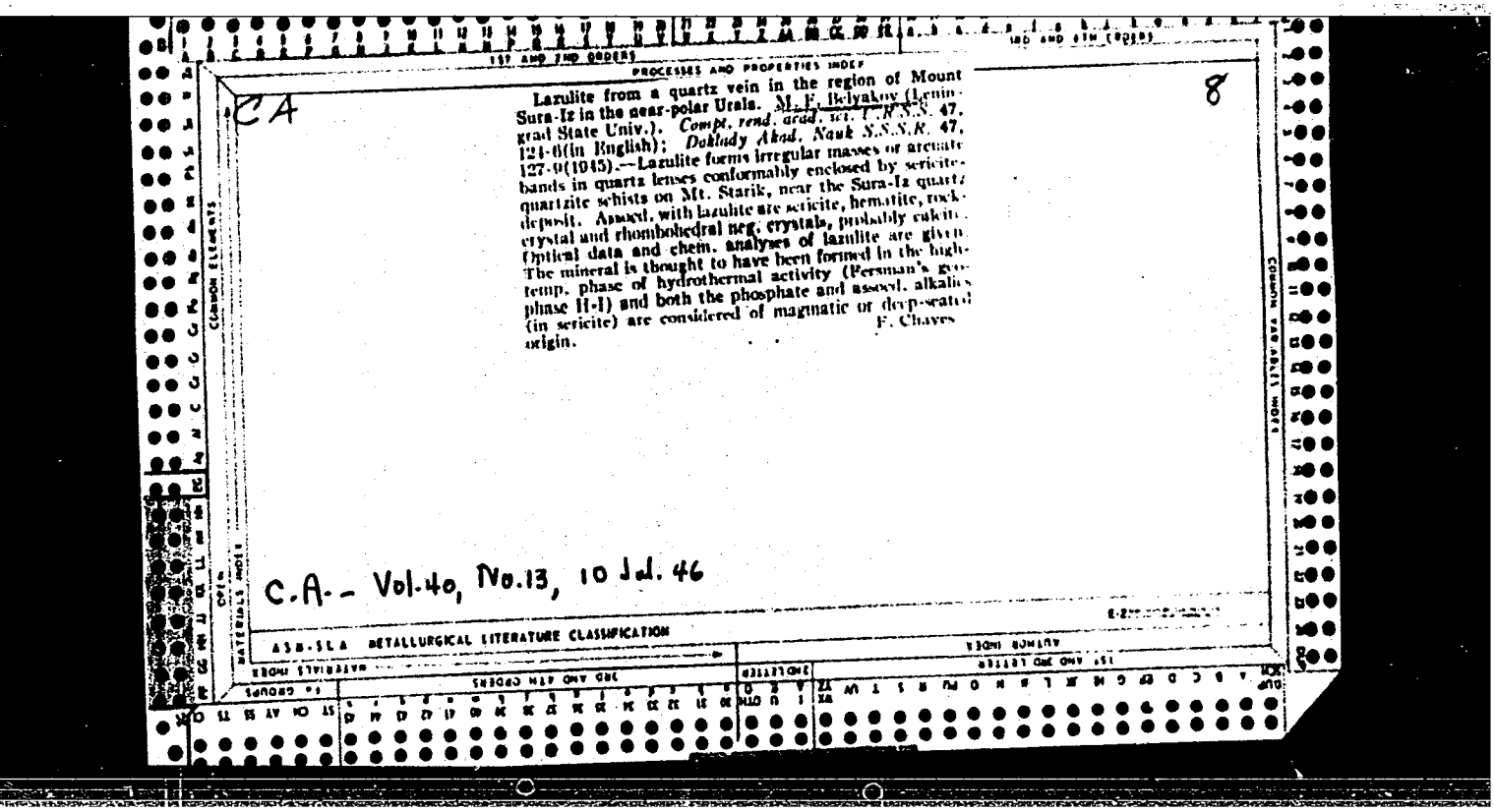

PROCESSES AND PROPERTIES INDEX

CA

8

Lazulite from a quartz vein in the region of Mount Sura-Iz in the near-polar Urals. M. F. Belyakov (Leningrad State Univ.). *Compt. rend. acad. sci. U.R.S.S.* 47, 124-6(in English); *Doklady Akad. Nauk S.S.S.R.* 47, 127-9(1945).—Lazulite forms irregular masses or arcuate bands in quartz lenses conformably enclosed by sericite-quartzite schists on Mt. Starik, near the Sura-Iz quartz deposit. Assocd. with lazulite are sericite, hematite, rock-crystal and rhombohedral neg. crystals, probably calcite. Optical data and chem. analyses of lazulite are given. The mineral is thought to have been formed in the high-temp. phase of hydrothermal activity (Fersman's geo-phase II-I) and both the phosphate and assocd. alkalies (in sericite) are considered of magmatic or deep-seated origin. F. Chaves

C.A. - Vol. 40, No. 13, 10 Jul. 46

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M. F. PA 27T50

USSR/Geology May 1946
Crystals, Quarts
Quartz

"Rock crystal in the Polar Ural Mountains," M. F. Belyakov, 1 p

"Priroda" No 5

Discusses the discovery of some rock crystal deposits in the Ural Mountain Range in the vicinity of the Kozhim River (the Pechor Basin), and the Tokhlaya River (Lyapin Basin). Six main lodes were discovered close to one another.

ID 27T50

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

FA 36T20

BELYAKOV, M. F.

USSR/Geology Aug 1946

"The Original Case of Weathering," M. F. Belyakov, 1 p

"Priroda" No 8

The best example of this is found in the polar region of the Urals on the slopes of Mt Lapcha, where layers of slate appear to be impaled on quartz outcroppings. This phenomena is due primarily to the erosion effect of wind. Author explains the reason for this and briefly describes the force of the wind, thus showing that the explanation of this phenomena to the action of wind is not entirely far fetched.

ID 36T20

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M. F.

"History of Geothermic Research in the USSR". Priroda, No 9, 1946 (70-71).
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M. F.

USSR/Geology
Mineral Deposits

Nov 1947

"Schungite-like Mineral from Northwestern Yakutsk," M. F. Belyakov, 2½ pp

"Dok Ak Nauk" Vol LVIII, No 5

There is no definitely established theory in regard to the nature of schungite. In 1946 in the alluvial deposits of the Olenek River in northwestern Yakutsk an unidentifiable mineral which possessed many of the properties of schungite was discovered. Author briefly describes the chemical composition of this mineral and discusses some of the remnants of plant and animal life which were discovered in this schungite-like mineral. Submitted by Academician D. V. Nalivkin, 30 May 1947. 38T44

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M. F.

USSR/Geology Dec 1947
Maps
Crystals

"New Data Concerning the Problem of the Boundaries and Geology of the Southeastern Part of the Anabar Crystal Massif," M. F. Belyakov, 2 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LVIII, No 7

Geologic maps of the USSR, 1937 and 1940 (RF 1:2,500-000), located Anabar crystal massif. All-Union Arctic Institute in 1946 sent an expedition to define more clearly southern and southeastern boundaries. While surveying boundaries, expedition recorded new geological data. Submitted by Academician V. A. Obruchev, 17 Jul 1947. 60127

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M. F.

"Contemporary Hydro-Network of the Anabar Crystal Body in Connection with the Peculiarities of Its Geological Formation," Dok AN SSSR, 58, No 8, 1947

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M. F.

USSR/Geology Jun 48
Petrology

"The First Findings of Anabar Detritus on the Water Divides of the Cambrian Field of the Central Siberian Plateau," M. F. Belyakov, 1½ pp

"Dok Ak Nauk SSSR" Vol LX, No 9

Detritus of pre-Cambrian (55)? rocks of Anabar massive have not been found previously on water divides of Cambrian field which surrounds massive. Author discovered such detritus on left bank of Arga-sala river in 1946. Describes location and discusses reasons for their presence. Submitted 27 Mar 48.

6/49T48

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M. F.

USSR/Geography Jul 49
Maps
Standards

"The International RF 1:1,000,000 Map and USSR Nomenclature for Maps," M. F. Belyakov, 6½ pp

"Priroda" No 7

USSR has adopted unit system of numeration and designation of separate sheets of maps based on the nomenclature of the international metric map on the scale of 1:1,000,000. Lists the scale of USSR maps, their dimensions, number of sheets per RF 1:1,000,000 map, nomenclature (in letters and

63/49T33

USSR/Geography (Contd) Jul 49

figures) for the sheets, etc. New system makes it easy to select sheets to be pasted together or to determine the scale, should the map be torn.

63/49T33

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M. F.

USSR/Geology
Petrology
Tectonics

Jan 49

"The Connection of Geological Isothermals With the Pre-Cambrian Contour of the Russian Platform," M. F. Belyakov, All-Union Petroleum Sci Res Geol Prospecting Inst, 4 pp

"Dok Ak Nauk SSSR" Vol LXIV, No 2

Connection between plutonic temperature and thermal coefficient of rocks and the form of subsurface structures is so regular that structural diagrams may be drawn from one set of measurements in shallow excavations. With this, definite connection between geoisothermals and the structure of the Russian platform is established in the Samarskiy Luka and Buguruslan region. Submitted 9 Nov 48

25/49126

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M. F.

PA 52/49T96

USSR/Petroleum
Flooding

May 49

"Effect of Artificial Flooding Upon the Thermal Regime of a Petroleum Site," M. F. Belyakov, All-Union Petroleum Sci Res Geol Exploratory Inst, 3 pp

"Dok Ak Nauk SSSR" Vol LXVI, No 3

Present data on results of artificial flooding are insufficient. Tabulates results of 2-year study of one of the Emba deposits according to temperature and depth. There is urgent need for stationary geothermic observations to achieve a rational production petroleum. Submitted by Acad S. I. Mironov, 28 Mar 49.

52/49T96

52/49T96

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

USSR/Geology - Oil 21 Oct 49
Geophysical Prospecting

"Geothermal Anomalies of the Emba Salt (Domes)," M. F. Belyakov, All-Union Petroleum Sci Res Geol Prospecting Inst

"Dok Ak Nauk SSSR" Vol LXVIII, No 6, pp 1079,1080

Used maximum thermometers to measure temp in more than 50 wells of depth up to 1 km. Measurements made for several points of each well in intervals of 50-100 m. Analysis of data showed, at equal distance from the earth's surface, temp was slightly higher (up to 4°

172127

USSR/Geology - Oil (Contd) 21 Oct 49

for wells about 1,000 m apart, measured at depths of 100-200 m) over domes of cupolas than at walls. Reasons for this anomaly include: different heat conductivity of rocks, subsurface waters, tectonic processes, surface erosion, etc. Submitted by Acad S. I. Mironov 17 Aug 49.

172127

BELYAKOV M. F.,

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M. F.

USSR/Geophysics - Anomalies, Geothermal Nov 51
(Depression)

"Geothermal Anomalies of the Dnepr-Donets Depression," M. F. Belyakov

"Priroda" No 11, pp 52,53

Belyakov presents popular summary of his original article that appeared in "Dok Ak Nauk SSSR, Vol LXXVII, No 2, 1951. Geol structure of a locality turns out to have considerable influence on the distribution of bathic (plutonic) heat in the upper layers of the Earth's crust. This has been confirmed by geothermal investigations conducted

207T46

USSR/Geophysics - Anomalies, Geothermal Nov 51
(Depression) (Contd)

In various places in the Dnepr-Donets depression. Concludes that increase of temp per descent into the ground varies from 10 m/°C to 200 m/°C, in contrast to the theoretical value of 33 m/°C accepted for the USSR territories.

207T46

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, K. F.

Author: Belyakov, K.F.

Title: Anomalous distribution of heat in the Dnieper-Donets depression.

Journal: Doklady Akademii Nauk SSSR, 1951, Vol.77, No.2, p. 325

Subject: Geology

From: D.S.I.R. Oct 51

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

VASSOYEVICH, N.B., prof., doktor geol.-miner.nauk; ANDREYEV, P.F., kand. khim.nauk; BELYAKOV, M.F., kand.geol.-miner.nauk; BARANOVA, T.E., nauchnyy sotrudnik; BUSHINSKIY, G.I., prof.; GEKKER, R.F., prof., doktor biolog.nauk; GROSSGEYM, V.A., kand.geol.-miner.nauk; ITENBERG, S.S., dotsent; KRISHTOFOVICH, A.N.; LYUBOMIROV, B.N., kand.geol.-miner.nauk; PORFIR'YEV, G.S., kand.geol.-miner.nauk; POKROVSKAYA, I.M., prof., doktor geol.-miner.nauk; RADCHENKO, O.A., kand.khim.nauk; RUKHIN, L.B., prof., doktor geol.-miner.nauk; TORGOVANOVA, V.B., gidrogeolog; USPENSKIY, V.A., kand.khim.nauk; FROLOV, Ye.F., kand.geol.-miner.nauk; FURSENKO, A.V.; KHAIN, V.Ye., prof., doktor geol.-miner.nauk; SHARONOV, V.V., prof., doktor fiziko-matem.nauk; YASHCHURZHINSKAYA, A.B., vedushchiy red.; SOKOLOVA, Ye.V., tekhn.red.

(Continued on next card)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

VASSOYEVICH, N.B.---(continued) Card 2.
[Handbook for field geologists and petroleum prospectors] Sputnik polevogo geologa - neftianika. Leningrad, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, Leningr.otd-nie, 1952. 504 p. (MIRA 12:12)

1. Groznenskiy ordena Trudovogo Krasnogo Znameni neftyanoy institut (for Itenberg). 2. Deystvitel'nyy chlen AN Ukrainskoy SSR (for Krishtofovich). 3. Chlen-korrespondent AN Belorusskoy SSR (for Fursenko).
(Petroleum geology--Handbooks, manuals, etc.)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV M.F.

VASSOYEVICH, Nikolay Bronislavovich, professor, doktor geologo-mineralogicheskikh nauk, redaktor; YASHCHURZHINSKAYA, A.B., redaktor; STEPANOV, D.L., doktor geologo-mineralogicheskikh nauk, redaktor; BELYAKOV, M.F., kandidat geologo-mineralogicheskikh nauk, redaktor; MURATOV, V.N., kandidat geologo-mineralogicheskikh nauk, redaktor; SOKOLOVA, Ye. V., tekhnicheskiy redaktor.

[Guide for petroleum geologists in the field] Sputnik polevogo geologa-neftianika. Izd.2-e, ispr. i dop. Leningrad, Gos. nauchno-tekhn. izd-vo neftianoi i gornoi-toplivnoi lit-ry. Vol. 1. 1954. 544 p.
(Petroleum geology) (MLRA 7:12)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

VASSOYEVICH, Nikolay Bronislavovich, doktor geologo-mineralogicheskikh nauk, obshchiy redaktor; STEPANOV, D.L., doktor geologo-mineralogicheskikh nauk, redaktor; BELYAKOV, M.F., kandidat geologo-mineralogicheskikh nauk, redaktor; MURATOV, V.N., kandidat geologo-mineralogicheskikh nauk, redaktor; YASHCHURZHINSKAYA, A.B., vedushchiy redaktor; GENNAD'YEVA, I.M., tekhnicheskiy redaktor.

[Guidebook for the geologist and petroleum engineer in the field] Sputnik polevogo geologa-neftianika. Izd. 2-e, ispr. i dop. Leningrad, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry. Vol. 2. 1954. 564 p. (MIRA 8:2)
(Petroleum geology)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M.F.

AID P - 1135

Subject : USSR/Mining

Card 1/1 Pub. 78 - 13/25

Author : Belyakov, M. F/

Title : Geothermal measurements in Belorussia

Periodical : Neft. khoz., v. 32, #11, 50-51, N 1954

Abstract : A study of temperature variation in wells at different depths by the resistance thermometer is presented. Temperature rapidly increases with the well depth. However, mean temperature difference per 100 meters of depth decreases with depth. Two tables and 3 Russian references (1949-1952).

Institution : None

Submitted : No date

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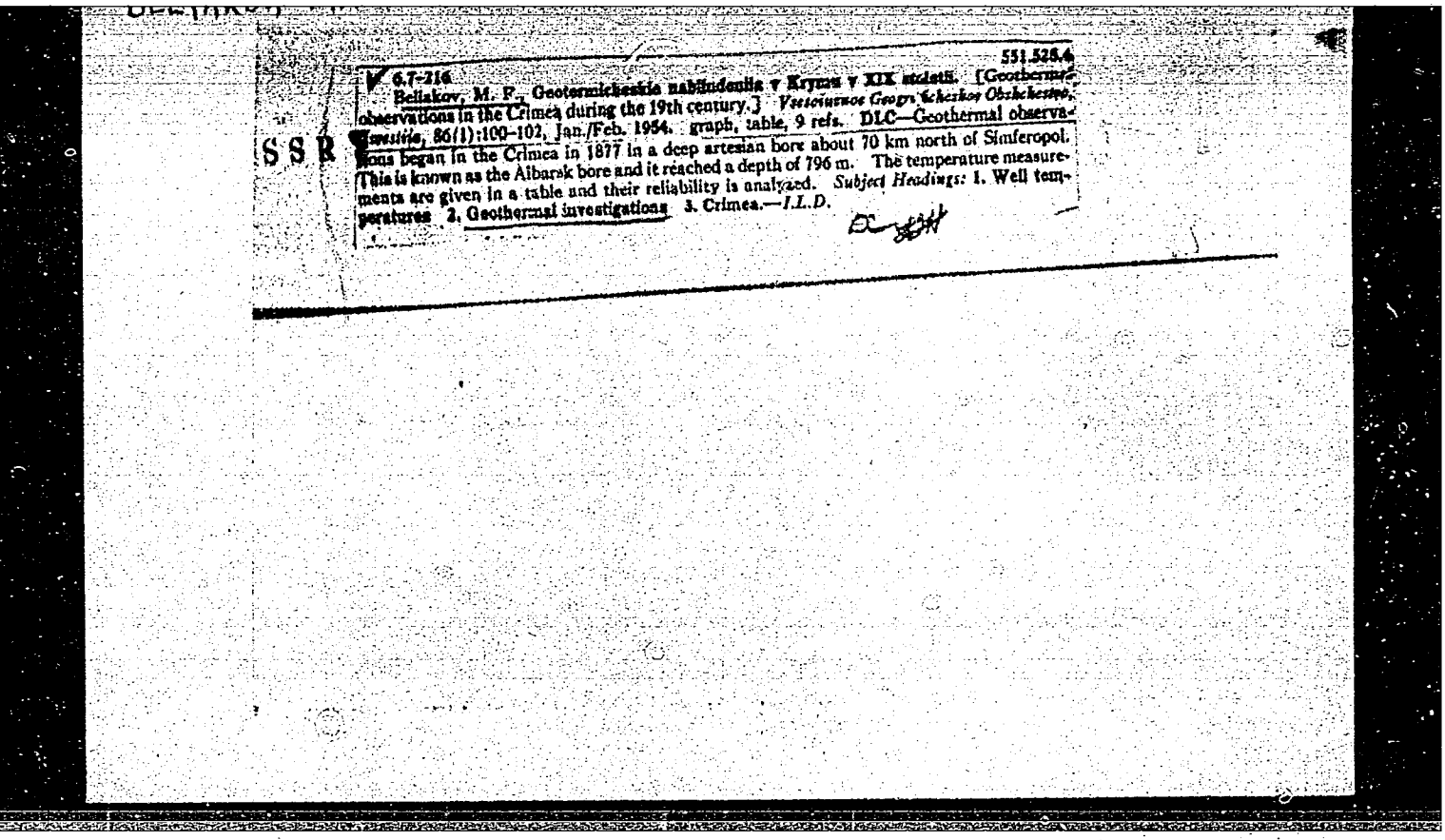

551.525.6

6.7-216

Beliakov, M. F., Geotermicheskie nabliudeniia v Krymu v XIX stoletii. [Geothermal observations in the Crimea during the 19th century.] *Vsesoiuznoe Geograficheskoe Obshchestvo, Izvestiia*, 86(1):100–102, Jan./Feb. 1954. graph, table, 9 refs. DLC—Geothermal observations began in the Crimea in 1877 in a deep artesian bore about 70 km north of Simferopol. This is known as the Aibarsk bore and it reached a depth of 796 m. The temperature measurements are given in a table and their reliability is analyzed. *Subject Headings:* 1. Well temperatures 2. Geothermal investigations 3. Crimea.—*I.L.D.*

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, Mikhail Fedorovich; YARYSHEV, B.P., redaktor; SHCHEKOTOV, P.A., vedushchiy redaktor; GENNAD'YEVA, I.M., tekhnicheskiy redaktor

[Geothermic observations in well boring and their interpretation] Geotermicheskie nabliudeniia v burovykh skvazhinakh i ikh interpretatsiia. Leningrad, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, Leningradskoe otd-nie, 1955. 37 p. (MIRA 9:12)
(Oil wells) (Earth temperature)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M.F.; GNEDOVETS, P.P., polkovnik, redaktor; SRIBNIS, N.V., tekhnicheskiy redaktor.

[Orientation without maps; material for instruction] Orientirovanie na mestnosti bez karty; materialy k obucheniiu. [Izd.-3-e ispr. i dop.] Moskva, Voen.izd-vo Ministerstva obor. SSSR, 1955. 68 p. (MLRA 8:11)

(Orientation(Topography)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M.F.; GRIGOR'YEV, D.P.; SHAFRANOVSKIY, I.I.

In memory of B.IA.Osadchev. Zap.Vses.min.ob-va 84 no.4:504-505 '55. (MIRA 9:6)
(Osadchev, Boris IAkovlevich, 1912-1954)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOU, M.F.; DZERUZHYNSKI, A., redaktor; TRUKHANAVA, A., tekhnicheskiy redaktor

[Orientation without maps. Translated from the Russian] Aryentavanne na miastsovasti bez karty. Peraklad z ruskaha vydannia. Minsk, Dziarzh. vyd-va BSSR, 1956. 47 p. (MIRA 9:10)
(Orientation)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M.F.

KATCHENKOV, Semen Mikhaylovich; BELYAKOV, M.F., redaktor; GABIS, Ye.M., vedushchiy redaktor; GENNAD'IEVA, I.M., tekhnicheskiy redaktor

[Spectrum analysis of rock] Spektral'nyi analiz gornykh porod. Leningrad, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, Leningr.otd-nie, 1957. 214 p. (MLRA 10:7)
(Rocks--Spectra)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

KATCHENKOV, Semen Mikhaylovich; PROKOF'YEV, V.K., prof., retsenzent; KLER, M.M., dots., retsenzent; KHOKHLOV, V.V., nauchn. red.; FEDOTOVA, M.I., ved. red.; BELYAKOV, M.F., dots., red.

[Spectrum analysis of rocks] Spektral'nyi analiz gornykh porod. Izd.2., perer. i dop. Leningrad, Nedra, 1964. 271 p. (MIRA 18:1)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M.I.

Psychogenic depression in the legal psychiatric clinic. Probl. sud.psikh. 8:167-189 '59. (MIRA 13:6)
(Depression, Mental)

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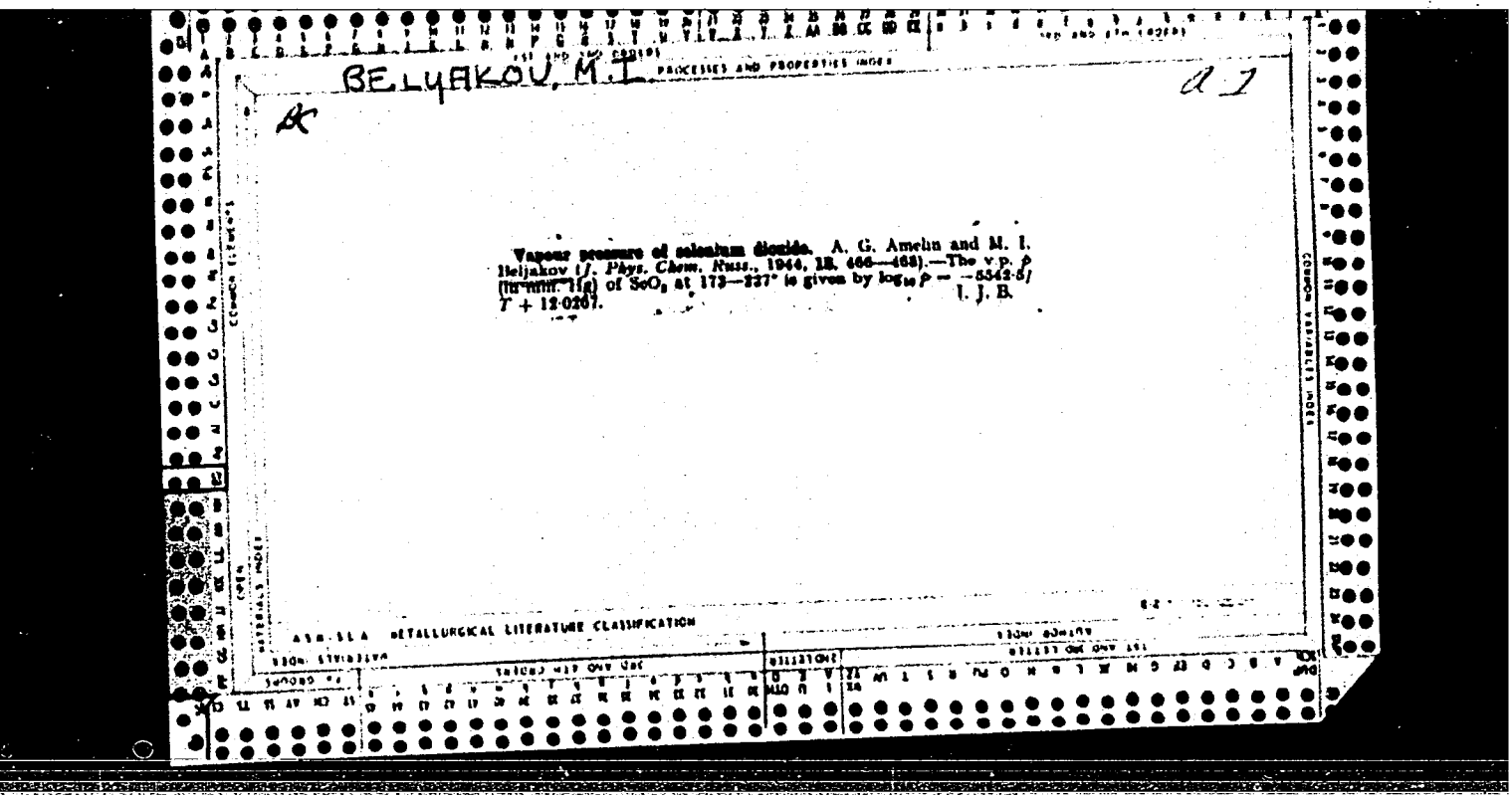

BELYAKOV, M.I.

PROCESSES AND PROPERTIES INDEX

a 1

Vapour pressure of selenium dioxide. A. G. Amelin and M. I. Beljakov (*J. Phys. Chem. Russ.*, 1944, 18, 466—468).—The v.p. p (in mm. Hg) of SeO_2 at 173—237° is given by $\log_{10} p = -5542{\cdot}5/T + 12{\cdot}0267$. I. J. B.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M. F.

USSR

Regulation of the dispersity of liquid aerosols prepared by the condensation method. A. G. Amelin and M. F. Belyakov (Ya. V. Samoilov Sci. Inst. Fertilizers and Insecto-fungicides, Moscow). *Kolloid. Zhur.* 17, 10-17 (1955); cf. *Theor. Basis of Mist Formation in Chem. Industry*, 1951.—The temp. distribution in the stream of hot vapor injected in cold air is shown in graphs. Air of 511° satd. with glycerol vapor was forced (at a const. vol. velocity) through a nozzle of diam. d into cold atm. The av. particle size of the glycerol fog thus produced was greater the greater d; it was, e.g., 1.6 μ for d = 2.5 mm. and 10 μ for d = 50 mm. The fog was more polydisperse at greater d. At small d, the linear rate of flow was greater and mixing was rapid; hence, the no. of nuclei was great and the droplet diam. small. Thus, the drop dimension in a condensation fog can be varied at will. J. J. Bikerman

Dc

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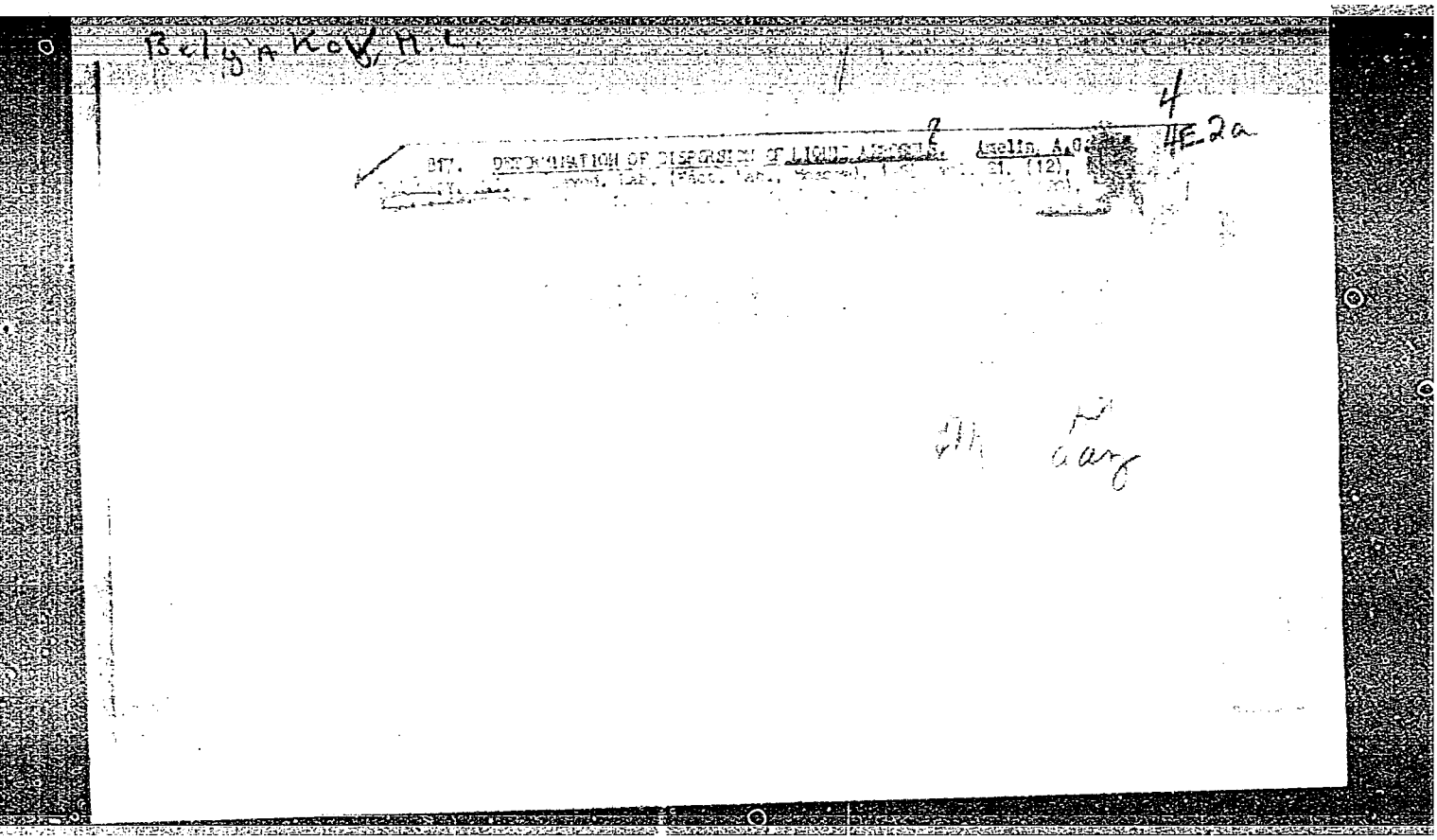
"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8



Belyakov, M.L.

4
4E2a

817. DETERMINATION OF DISPERSION OF LIQUID AEROSOLS. Amelin, A.G. [illegible] Lab. (Fact. Lab., Moscow), [illegible] 21, (12), [illegible]

[illegible]

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

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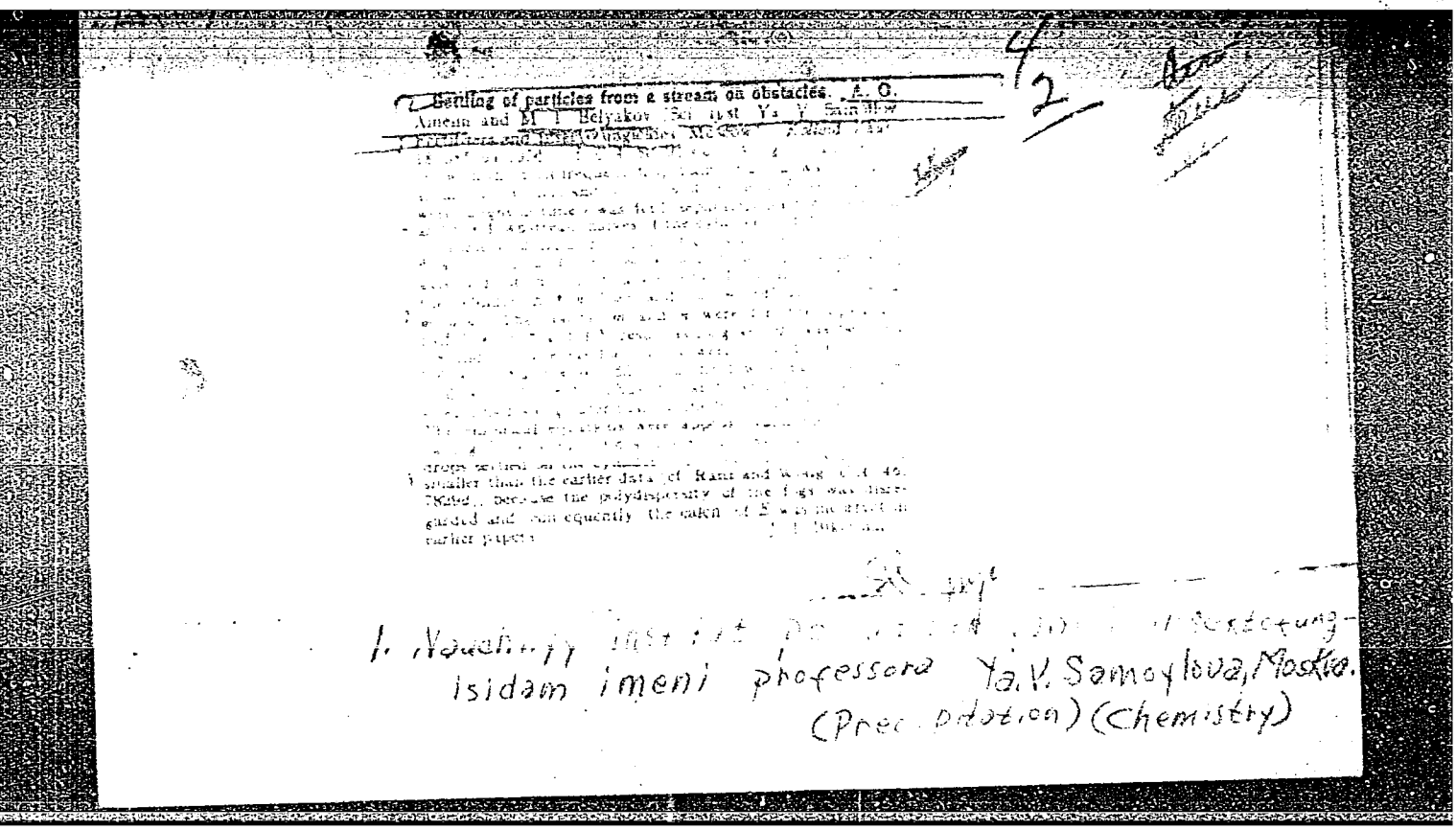
4/2



Settling of particles from a stream on obstacles. A. O. Ameen and M. I. Belyakov (Sci. Inst. Ya. V. Samoylov [illegible]

[illegible]

drops settled on the cylinder [illegible] smaller than the earlier data (cf. Rans and Wong [illegible] 78[illegible]), because the polydispersity of the fogs was disregarded and consequently the calcn. of E was incorrect in earlier papers. [illegible]

1. Nauchnyy institut [illegible] Sektofung-isidam imeni professora Ya. V. Samoylova, Moskva. (Precipitation) (Chemistry)

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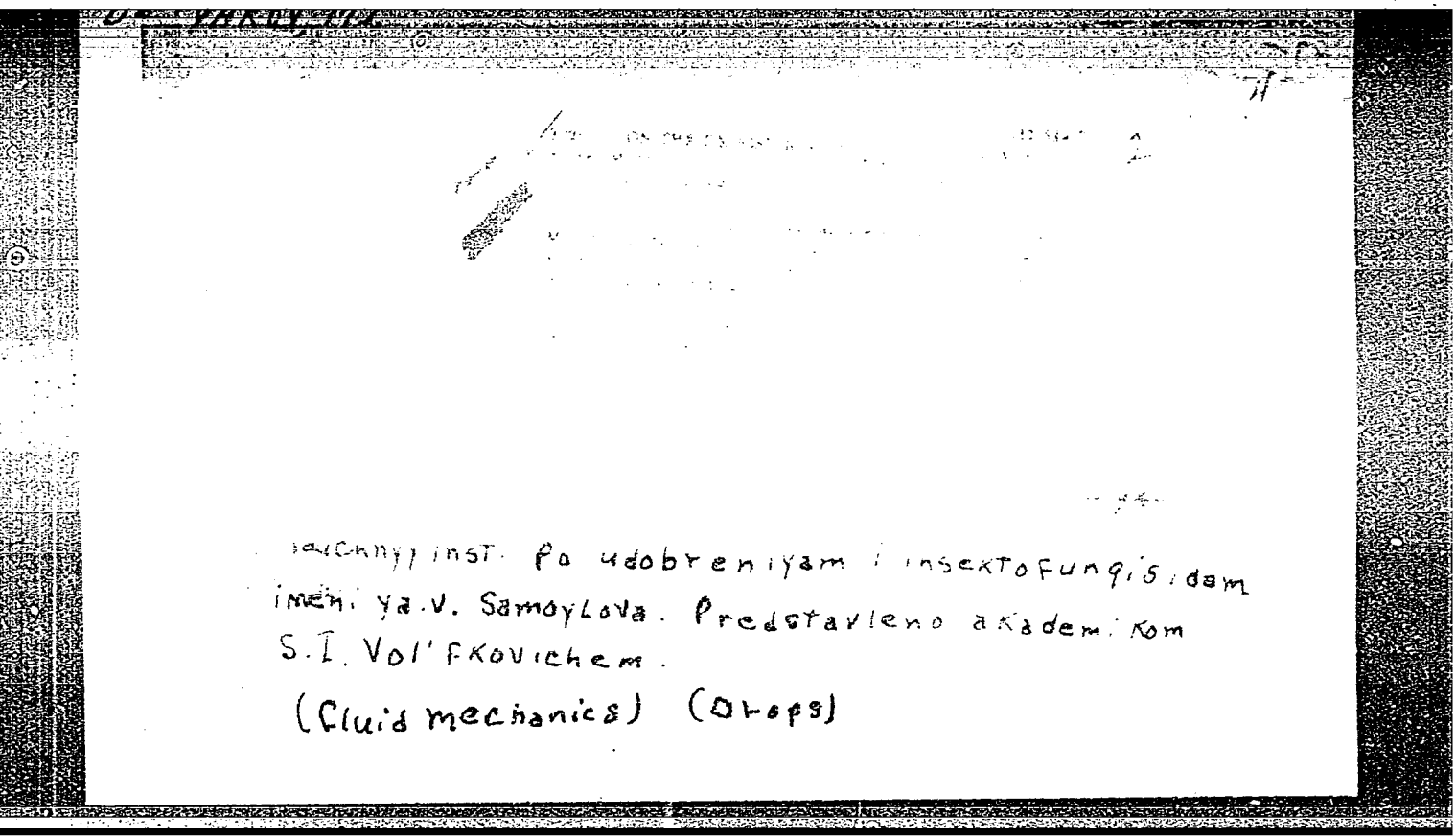

...uchnyy inst. po udobreniyam i insektofungisidam imeni ya.V. Samoylova. Predstavleno akademikom S.I. Vol'fkovichem.

(Fluid mechanics) (Drops)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

SKORINA, Sergey Aleksandrovich [Skorina, S.O.]; BELYAKOV, M.I. [Bieliakov, M.I.], red.; NEMCHENKO, I.Yu., tekhn.red.

[Knowledge of soil is the basis for its correct use] Znannia hruntiv - osnova pravyl'noho ikh vykorystannia. Kyiv, Derzh. vyd-vo sel's'kohospodars'koi lit-ry URSR, 1961. 48 p. (MIRA 15:4)

(Crops and soils)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

REPIN, A.M.[Riepin, A.M.], kand. sel'khoz. nauk; NAUMENKO, O.I., nauchnyy sotr.; BELYAKOV, M.I.[Biliakov, M.I.], red.; NEMCHENKO, I.Yu. [Nemchenko, I.IU.], tekhn. red.

[Drying and storing seed and forage corn] Sushinuia ta zberigannia nasinnoi i furazhnoi kukurudzy. Kyiv, Derzh. vyd-vo sil'kohospodars'koi lit-ry URSR, 1961. 67 p. (MIRA 15:3)
(Corn (Maize))—Drying)
(Corn (Maize))—Storage)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

KOVALYUSHKO, S.P.; BELYAKOV, M.I., red.; TOGOBITSKAYA, N.V. [Tohobits'ka, N.V.], red.; KOVALENKO, O.I., red.; DOBROVOL'SKIY, O.A.[Dobrovol's'kyi, O.A.], red.; NAGORNYY, A.G.[Nahornyĭ, A.H.], red.; LEVITSKAYA, G.P. [Levyts'ka, H.P.], red.; CHEREVATSKIY, S.A.[Cherevats'kyi, S.A.], tekhn. red.

[Manual on production planning and organization on collective and state farms] Dovidnyk po planuvanniu i organizatsii vyrobnytstva v kolhospakh i radhospakh. Kyiv, Derzhsil'hospvydav URSR, 1963. 935 p. (MIRA 16:12)
(Ukraine--Farm management--Handbooks, manuals, etc.)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

DOLGINOVA, M.Ye.; BELYAKOV, M.I.; [illegible], B.N.

Light-weight portable pump with plastic parts for cleaning vessels. Sbor.nauch.-tekh.inform.Azerb.inst.nauch.-tekh.inform.Ser.Mashinostroi. prom. no.4:3-8 '62. (MIRA 18:8)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

1. BELYAKOV, M. N.

2. USSR (600)

4. Fertilizers and Manures

7. Use of manganese tailings to stimulate growth of trees. Les. khoz. 5 No. 10, 1952.

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

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

SERB, Petr Fedorovich; GOLUBEVA, K.A., inzh., retsenzent; MASLIY, K.Ya., suborez, retsenzent; ZHUKOV, P.A., kand.ekon.nauk, red.; BELYAKOV, M.N., red.; MAGNITSKIY, A.V., red.; ROZENBERG, I.A., kand.ekon.nauk, red.; SMIRNITSKIY, Ye.K., kand.ekon.nauk, red.; SUSTAVOV, M.I., inzh., red.; DUGINA, N.A., tekhn.red.

[Organizational and technical plan in the workshop] Orgtekhplan na rabochem meste. Moskva, Mashgiz, 1960. 30 p. (Seriia "Osnovy konkretnoi ekonomiki," no.5). (MIRA 14:4)
(Sverdlovsk--Machinery industry)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

TROYANOV, Andrey Konstantinovich; GOLUBEVA, K.A., inzh., retsenzent; MASLIY, K.Ya., zuborez, retsenzent; ZHUKOV, M.N., red.; DANILOV, V.L., red. vypuska; BELYAKOV, M.N., red.; ROZENBERG, I.A., kand. ekon.nauk, red.; SMIRNITSKIY, Yu.K., kand.ekon.nauk, red.; SUSTAVOV, M.I., inzh., red.; DUGINA, N.A., tekhn.red.

[Organization of the manufacture of machinery] Kak organizovano proizvodstvo mashin. Moskva, Mashgiz, 1960. 30 p. (Biblioteka rabochego mashinostroitelia. Seriia: "Osnovy konkretnoi ekonomiki," no.2) (MIRA 14:5)

(Machinery industry)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BUSHMICH, German Adamovich; GOLUBEVA, K.A., insh., retsenzent; MASLIY, K.Ya., zuborez, retsenzent; ZHUKOV, P.A., kand.ekon.nauk, red.; URYASHOV, A.V., red. vypuska; BELYAKOV, M.N., red.; ROZENBERG, I.A., kand.ekon.nauk, red.; SMIRNITSKIY, Ye.K., kand.ekon.nauk, red.; SUSTAVOV, M.I., insh., red.; DUGINA, N.A., tekhn.red.

[Business accounting is accounting in a business-like manner] Khozraschet - eto schet po-khoziaiski. Moskva, Mashgiz, 1960. 33 p. (Biblioteka rabochego mashinostroitelia: Seriia "Osnovy konkretnoi ekonomiki," no.11) (MIRA 14:5)
(Machinery industry--Finance) (Sverdlovsk--Railroads--Cars)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

VLASOVA, Antonina Aleksandrovna; DRUGALEVA, Zinaida Samuilovna; ZHUKOVA, Larisa Mikhaylovna; GOLUBEVA, K.A., inzh., retsenzent; MASLIY, K.Ya., suborez, retsenzent; ZHUKOV, P.A., kand. ekon.nauk, red.; SERAFIMOVICH, B.V., red. vypuska; BELYAKOV, M.N., red.; ROZENBERG, I.A., kand.ekon.nauk, red.; SMIRNITSKIY, Ye.K., kand.ekon.nauk, red.; SUSTAVOV, M.I., inzh., red.; DUGINA, N.A., tekhn.red.

[How to increase labor productivity] Kak povysit' proizvoditel'nost' truda. Moskva, Mashgiz, 1960. 37 p. (Biblioteka rabochego mashinostroitelia: Seriia "Osnovy konkretnoi ekonomiki," no.6) (MIRA 14:5)
(Machinery industry--Labor productivity)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

RADUKIN, Viktor Pavlovich; GOLUBEVA, K.A., inzh., retsenzent; MASLIY, K.Ya., zuborez, retsenzent; ZHUKOV, P.A., kand.ekon.nauk, red.; VARAVKA, V.V., red. vypuska; BELYAKOV, M.N., red.; ROZENBERG, I.A., kand.ekon.nauk, red.; SMIRNITSKIY, Ye.K., kand.ekon.nauk, red.; SUSTAVOV, M.I., inzh., red.; DUGINA, N.A., tekhn.red.

[Labor organization in a workshop] Organizatsiia truda na rabochem meste. Moskva, Mashgiz, 1960. 46 p. (Biblioteka rabochego mashinostroitelia: Seriia "Osnovy konkretnoi ekonomiki," no.4) (MIRA 14:5)

(Machinery industry--Labor productivity)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

SMIRNITSKIY, Yevgeniy Konstantinovich; GOLUBEVA, K.A., inzh., retsenzent; MASLIY, K.Ya., zuborez, retsenzent; ZHUKOV, P.A., kand. ekon.nauk, red.; SITNIKOV, M.A., red. vypuska; BELYAKOV, M.N., red.; ROZENBERG, I.A., kand.ekon.nauk, red.; SMIRNITSKIY, Ye. K., kand.ekon.nauk, red.; SUSTAVOV, M.I., inzh., red; DUGINA, N.A., tekhn.red.

[Machinery-industry worker and technological innovations] Rabochii-mashinostroitel' i tekhnicheskii progress. Moskva, Mashgiz, 1960. 49 p. (Biblioteka rabochego mashinostroitelia. Seriia: "Osnovy konkretnoi ekonomiki," no.1) (MIRA 14:5)
(Machinery industry—Technological innovations)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

GLADIL'SHCHIKOV, Yevgeniy Ivanovich; GOLUBEVA, K.A., inzh., retsenzent; MASLIY, K.Ya., zuborez, retsenzent; SHIROKOV, N.P., red. vypuska; BELYAKOV, M.N., red.; GERKEN, I.V., dotsent, red.; ZHUKOV, P.A., kand. ekon. nauk, red.; ROZENBERG, I.A., kand. ekon. nauk, red.; SMIRNITSKIY, Ye.K., kand. ekon. nauk, red.; SUSTAVOV, M.I., inzh., red.; DUGINA, P.A., tekhn. red.

[Let's economize on electric power] Berech' elektroenergiiu. Moskva, Mashgiz, 1960. 43 p. (Biblioteka rabochego mashinostroitelia: Seriia "Osnovy konkretnoi ekonomiki," no.10) (MIRA 14:9)
(Electric power)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

ROZENBERG, Ivan Aleksandrovich; GOLUBEVA,K.A., inzh.,retsenzent; MASLIY, K.Ya., zuborez, retsenzent; ZHUKOV,P.A., kand.ekon.nauk, red.; PROKHOROV,V.F.,red. vypuska; BELYAKOV,M.N., red.; ROZENBERG,I.A., kand.ekon.nauk, red.;SMIRNITSKIY,Ye.K., kand.ekon. nauk, red.; SUSTAVOV,M.I., inzh.,red.; DUGINA,N.A., tekhn.red.

[From the shift plan to the national economic plan] Ot smennogo do narodnogo khoziaistvennogo plana. Moskva, Mashgiz, 1960. 45 p. (Biblioteka rabochego mashinostroitelia: Seriia "Osnovy konkretnoi ekonomiki," no.3) (MIRA 14:5)
(Russia--Economic policy) (Industrial management)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

GOLIKOV, Aleksandr Arsen'yevich; POTEKUSHIN, Nikolay Vasil'yevich; GOLUBEVA, K.A., inzh., retsenzent; MASLIY, K.Ya., zuborez, retsenzent; ZHUKOV, P.A., kand.ekon.nauk, red.; VOLOSATOV, A.Ya., red. vypuska; BELYAKOV, M.N., red.; KON'KOV, A.S., inzh., red.; ROZENBERG, I.A., kand.ekon.nauk, red.; SMIRNITSKIY, Ye.K., kand.ekon.nauk, red.; SUSTAVOV, M.I., inzh. red.; DUGINA, N.A., tekhn.red.

[How to save metals] Kak luchshe ekonomit' metall. Moskva, Mashgiz, 1960. 40 p. (Biblioteka rabochego mashinostroitelia. Seriia: "Osnovy konkretnoi ekonomiki," no.9) (MIRA 14:5)
(Metalwork) (Metals, Substitutes for)

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SOV/110-58-7-20/21

AUTHOR: Belyakov, M.P., Engineer.

TITLE: Electricity supply sources with gas-turbine drive. (Istochniki pitaniya s gazoturbinnym privodom)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, Nr 7, pp 71-76 (USSR)

ABSTRACT: This is a review of published foreign work describing generators of normal and high frequency, driven by gas-turbines. The advantges of gas-turbines over piston engines for driving small sets are stated. Lists of 12 foreign gas turbines of up to 200 h.p., and of a further 16 in the range 200 - 500 h.p. are given in Tables 1 and 2 respectively. Gas-turbines that were on show at the Aircraft Exhibition at Farnborough in 1954 are described, with special mention of the Rover turbine with BT-H and Rotax generators. The Macfarlane set is also described; it is illustrated in Fig 3. Characteristics of the Rover gas-turbine are given in Fig 4. Airesearch (USA) gas turbines are described, and characteristics of one type are given in Fig 5. In April, 1955, the firm announced

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Electricity supply sources with gas-turbine drive.

that it had made 1500 engines that had worked 100,000 hours. The Allen emergency power supply for use on ships is described. Various other French, British, and American sets are mentioned. The list is said to be incomplete. Because of large-scale production, many of these foreign gas-turbines are relatively cheap and their use is often advantageous. There are 5 figures and 2 tables.

Card 2/2

SUBMITTED: July 2, 1957.

1. Gas turbines--Applications 2. Power supplies--Sources

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BELYAKOV, M.P., inzhener.

Foreign low-capacity gas turbines. Vest. mash. 37 no.7:79-89 Jl '57. (MIRA 10:8)
(Gas turbines) (Gas and oil engines)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M.P.

Design and experimental investigation of the air-gas flow area of the traction turbine of a gas-turbine engine. Avt.prom. 29 no.2:17-20 F '63. (MIRA 16:2)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy avtomotornyy institut.
(Gas turbines—Testing)

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BELYAKOV, M.S. (gorod Komsomol'sk Ivanovskoy oblasti).

Study of inequalities in the 7th grade. Mat.v shkole no.6:59-64 N-D '53.
(MLRA 6:12)
(Inequalities (Mathematics))

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M.S.

BELYAKOV, M.S. (Komsomol'sk, Ivanovskaya oblast')

Tests in geometry in grade 6. Mat.v shkole no.6:37-39 N-D '57.
(MIRA 10:11)
(Geometry, Plane--Study and teaching)

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BELYAKOV, M. V.

Vliyaniye meteorologicheskikh usloviy na rasprostraneniye ul'trakorotkikh voln (Influence of Meteorological Conditions on the Propagation of Ultra-short Waves) Published by Soviet Radio, Moscow, 1948, 108 pages with illustrations

SO: U-3039, 11 Mar 1953

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

PA 52/49T1

BELYAKOV, M. V.

May/Jun 49

USSR/Academy of Sciences

"New Books" 1 p

"Radiotekh" Vol IV, No 3

Lists five books: P. V. Shmakov's "Color Television," M. V. Belyakov's "The Influence of Meteorological Conditions on the Progation of Ultrashort Waves," G. A. Remez's "Radio Testing," G. Khol'man's "Generation and Amplification of Decimeter and Centimeter Waves," and N. P. Bogoroditskiy and I. D. Fridberg's "High-Frequency Inorganic Dielectrics."

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M.[V.]

"Radar Techniques in Meteorology," Radio, No 1, pp 17-19, 1953

In discussing the use of radar in determining wind motion, claim is made that wind velocity and direction was determined with a pulsed radar for the first time by Soviet specialists at the Cent Aero Obser in 1943. Also discusses radar indication of clouds and precipitation. Examples are given of the use of radar in aviation, in the merchant marine, and in agriculture to obtain warnings of dangerous weather phenomena.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M. V

551.5(023)

Belyakov, Mikhail Vasil'evich. Atmosfere. [The atmosphere] Moscow, Izd-vo Tekh-niko-Teoret. Lit-ry, 1955. 62 p. 27 figs. *Nauchno Populiarnaia Biblioteka.* DLC—A popular brochure (150,000 copies) giving the basic facts about the physical and chemical properties of the atmosphere (pressure, temperature, water vapor, wind, snow, lightning, storms, structure, composition, outer atmosphere, etc.) and some sketchy accounts of hurricanes, floods, tornadoes, tidal waves and other dramatic features of world weather. Illustrations are mostly schematic drawings. *Subject Heading:* 1. Popular meteorology pamphlets. —*M.R.*

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3(7) PHASE I BOOK EXPLOITATION SOV/2904

Belyakov, Mikhail Vasil'yevich

Pogoda i yeye predvideniye (Weather Forecasting) Moscow, Gostekhizdat, 1958. 61 p. (Series: Nauchno-prosvetitel'naya biblioteka, vyp. 19) 50,000 copies printed.

Ed.: V.A. Mezentsev; Tech. Ed.: V.N. Kryuchkova.

PURPOSE: This booklet is intended for the general reader interested in the study of the weather.

COVERAGE: This is a popular account of the weather and the methods and techniques used in forecasting. The author outlines the history of meteorology and discusses the basic meteorological elements and instruments. Further, the book treats the possibilities of improving forecasting techniques and controlling weather. No references are given.

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Weather Forecasting SOV/2904

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How the Modern Forecasting Service Came About and What It Is 6
What the Synoptic Map Tells Us 14
Horizontal Air Movements and Their Effect on the Weather 30
Short-term Weather Forecasting 40
Long-term Weather Forecasting 43
Can One Forecast Weather Without Instruments? 48
The Possibilities of Improving Weather Forecasting 52
Conclusions. Can Man Control the Weather? 60

AVAILABLE: Library of Congress (QC995.B388)

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MM/bg
12-21-59

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

SHCHUKIN, Viktor Konstantinovich; BELYAKOV, M.V., nauchnyy red.; MEZENTSEV, V.A., red.; KRYUCHKOVA, V.I., tekhn.red.

[Attacking the sky] Shturm neba. Izd.2., perer. Moskva, Gos. izd-vo fiziko-matem.lit-ry, 1959. 62 p. (Nauchno-populiarnaia biblioteka, no.59) (MIRA 12:10)
(Atmosphere)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, Mikhail Vasil'yevich; MEZENTSEV, V.A., red.; BRUDNO, K.F., tekhn.red.

[Atmosphere] Atmosfera. Izd.2., dop. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 70 p. (Nauchno-populiarnaia biblioteka, no.78). (MIRA 13:9)
(Atmosphere)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, M.V.

"Artificial earth satellites and the weather" by V.P.Petrov and A.A.Sochivko. Reviewed by M.V.Beliakov. Meteor.i gidrol. no.8:54-56 Jl [i.e.Ag.] '62. (MIRA 15:7)
(Artifical satellites in meteorology) (Petrov, V.P.) (Sochivko, A.A.)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204520019-8

BELYAKOV, Mikhail Vasil'yevich; KADER, Ya.M., red.; ZUDINA, M.P., tekhn. red.

[Ocean of air (Atmosphere of the earth)] Vozdushnyi okean (atmosfera Zemli). Moskva, Voenizdat, 1963. 129 p. (MIRA 16:12)

(Atmosphere)

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BELYAKOV, M.V.

Scientific and popular literature on meteorology. Meteor. i gidrol. no.3:55-57 Mr '63. (MIRA 16:3)
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BELYAKOV, N., sud'ya vsesoyuznoy kategorii; KUUZ, A., sud'ya respublikanskoy kategorii

Sports competitions: results and conclusions. Voen. znan. 41 no.10:46 O '65. (MIRA 18:10)

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BELYAKOV, N., sud'ya respublikanskoy kategorii

Sport of the strong and the resolute. Voen. znan. 38 no.10:32 O '62. (MIRA 15:10)
(Aquatic sports)

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BELYAKOV, N.

Boat crew training. Voen.znan.31[i.e.32] no.5:22 My '56.
(Boats and boating) (MLRA 9:9)

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BELYAKOV, N., sud'ya respublikanskoy kategorii

Successes of the participants in the combined competition of sea sports. Voen. znan. 40 no.12:41 D '62 (MIRA 18:1)

1. Zamestitel' glavnogo sud'i pervenstva Sovetskogo Soyuza po morskomu mnogobor'yu.

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BELYAKOV, N.A. DECEASED

Geology See IIC

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Belyakov N. D.

YERSHOV, A.V.; PUZYREV, I.V.; BELYAKOV, N.A.

[redacted]

High-capacity carding machine designed by the Ivanovo Scientific Research Institute of the Textile Industry. Tekst. prom. 18 no.1: 22-23 Ja '58. (MIRA 11:2)

(Carding machines)

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BELYAKOV, N.A.; PUZYREV, I.V.; NOSOV, G.I.

Some problems of the improvement of the carding machine developed by the Ivanovo Scientific Research Institute of Textile Industry. Nauch.issl.trudy IvNITI 25:42-50 '61. (MIRA 15:10)
(Ivanova—Carding machines)

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BELYAKOV, N.A.; PUZYREV, I.V.; NOSOV, G.I.

Shortening the opening and scutching process by the use of sawlike elements. Nauch.-issl. trudy IvNITI 26:3-23 '63. (MIRA 18:4)

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