SMULEVICH, B.Ya.

Malthusianism vs. public health. Sov.med. 18 no.9:19-23 S '54.
(MLRA 7:11)

1. Iz instituta organizatsii zdravookhraneniya i istorii meditsiny imeni N.A.Samashko (dir. - kandidat meditsinskikh nauk Ye.D.Ashurkov) Akademii meditsinskikh nauk SSSR.

(PUBLIC HEALTH
endangered by malthusianism)
(POPULATION
malthusianism, eff. on pub. health)

[illegible], [illegible]

[illegible], [illegible]. - "A critique of certain bourgeois theories of public health" (the social problems of public health and their reflection in the theories of bourgeois scholars). Moscow, 1955. Acad Med Sci USSR. (Dissertations for degree of Doctor of Medical Sciences.)

[illegible]: Literaturnaya gazeta, No [illegible], 26 November 1955. Moscow.

SMULEVICH, Boleslav Yakovlevich; ASHURKOV, Ye.D., redaktor; VINOGRADOV, N.A., redaktor; MAZUR, M.M., redaktor; SENCHILO, K.K., tekhnicheskiy redaktor

[The state of health of the population and methodsof studing it; a lecture] Sostoianie zdorov'ia naseleniia i metody ego izucheniia; lektsiia. Pod obshchei red. E.D.Ashurkova i N.A.Vinogradova. Moskva, Gos. izd-vo med. lit-ry, 1956. 44 p. (MLRA 9:7)
(HEALTH SURVEYS)

Name: SMULEVICH, Boleslav Yakovlevich

Dissertation: Critique of contemporary bourgeois theories of health (social problems of health and reflections of them in the theories of bourgeois scientists)

Degree: Doc Med Sci

Affiliation: Inst of Organization of Health and History of Medicine, Acad Med Sci USSR

Defense Date, Place: 6 Apr 56, Council of Department of Hygiene, Microbiology and Epidemiology, Acad Med Sci USSR

Certification Date: 16 Nov 57

Source: BMVO 24/57

SHULEVICH, B.Ya.

Social problems in public health; problem of social hygiene. Gig. i san. 22 no.4:53-59 Ap '57. (MLRA 10:9)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny Ministerstva zdravookhraneniya SSSR.
(SOCIAL HYGIENE,
(Rus))

SMULEVICH, B.Ya.

Methods in public health planning. Sov.zdrav. 17 no.1:30-33 Ja '58. (MIRA 11:2)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny imeni N.A.Semashko Ministerstva zdravookhraneniya SSSR (dir. - Ye.D.Ashurkov)

(PUBLIC HEALTH
in Russia, funcamentals of planning (Rus))

SMULEVICH, B.Ya.

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1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny imeni N.A. Semashko Ministerstva zdravookhraneniya SSSR (dir. Ye.D. Ashurkov).

(PUBLIC HEALTH
in U.S. (Rus))

Smulevich, Boleslav Yakovlevich

Morbidity, Mortality, and the Physical Development of the Populace, USSR.

New York, U.S. Joint Publications Research Service, 1959.

140 p. Tables (JPRS: 1632-N; CSo: 1911-N)

Tr. From the Original Russian: Sostoyaniye Zdorov'ya Naseleniya I Metody Yego Izucheniya. Lek. 3. Moskva, 1957, p. 3-132; Zabolevayemost', Smertnost', I Fizicheskoye Razvitiye Naseleniya.

SMULEVICH, B.Ya., doktor meditsinskikh nauk, kandidat ekonomicheskikh nauk

Neo-Thomist medical sociology under the guise of social hygiene.
Vest. AMN SSSR 14 no.12:79-83 '59. (MIRA 13:4)
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SMULEVICH, B.Ya., doktor med. nauk, kand. ekon. nauk.

Discussion on social hygiene. Sov. zdrav. 18 no.3:42-48 '59.
(SOCIAL HYGIENE (MIRA 12:3)
in Russia (Rus))

SMULEVICH, B.Ya., doktor med.nauk, kand.ekonom.nauk (Moskva)

Evolution of bourgeois social hygiene from reformism to neofascism. (MIRA 12:12)
Sov.zdrav. 18 no.8:3-10 '59.
(PUBLIC HEALTH)

BATKIS, G.A.; SMULEVICH, B.Ya. (Moskva)

On scientific and theoretical principles of Soviet socialistic public health. Sov.zdrav. 18 no.11:52-57 '59. (MIRA 13:3)
(STATE MEDICINE)

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[Criticism of modern bourgeois social hygiene and medical sociology] Kritika sovremennoi burzhuaznoi sotsial'noi gigieny i meditsinskoi sotsiologii. Moskva, Gos. izd-vo med. lit-ry Medgiz, 1960. 337 p. (MIRA 14:7)

(PUBLIC HEALTH)

SMULEVICH, B.Ya. (Moskva), doktor meditsinskikh nauk, kand. ekonomicheskikh nauk

Against oversimplification problems of public health theory. Sov. zdrav. 19 no. 8:21-25 '60. (MIRA 13:10)
(PUBLIC HEALTH)

SMULEVICH, B.Ya., doktor med.nauk, kand.ekonom.nauk (Moskva)

Methodological aspects in establishing the health status of the population. Sov.zdrav. 19 no.10:38-43 '60. (MIRA 14:1)

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(PUBLIC HEALTH)

MARKUZON, Fedor Davidovich; PRIVEZENTSEVA, A.G., red.; GULEVICH, B.Ya., red.; VASIL'KOVA, Ye.V., tekhn. red.; IL'YUSHENKOVA, T.P., tekhn. red.

[Sanitation statistics in prerevolutionary Russia and in the U.S.S.R.] Ocherki po sanitarnoi statistike v dorevoliutsionnoi Rossii i v SSSR. Moskva, Gosstatizdat, TsSU SSSR, 1961. 129 p. (MIRA 15:2)
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[Principal problems in the history of medicine] Ob osnovnykh problemakh istorii meditsiny. Pod red. M.I.Barsukova i B.IA.Smulevicha. Moskva, Gos. izd-vo med. lit-ry Medgiz, 1961. 158 p. Translated from the Polish. (MIRA 14:9)

(MEDICINE—HISTORY)

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Determination of influence of social systems on public health.
Sov. zdrav. 20 no.10:41-47 '61. (MIRA 14:9)

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(PUBLIC HEALTH)

[illegible]

[illegible]

S[illegible], [illegible]slaw (Moskwa)

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KAKITELASHVILI, Ya.V.; SMULEVICH, V.B.

Cavernous resection and simultaneous transplantation of intercosta vascular-muscular pieces [with summary in French]. Probl.tub. 35 no.4:112-113 '57. (MIRA 10:8)

1. Iz kafedry tuberkuleza legkikh (zav. - prof. A.Ye.Rabukhin, professor kafedry - L.K.Bogush) TSentral'nogo instituta usovershenstvovaniya vrachey (dir. V.P.Lebedeva)

(TUBERCULOSIS, PULMONARY, surg.
cavernous resection & simultaneous transpl. of vasc. musc. intercostal pieces (Rus))

SMULEVICH, V.B.

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(BRONCHI--RADIOGRAPHY) (OSSOWSKA, K.)

SMULEVICH, V.B. (Moskva, Starosadskiy per., d.4/5, kv.50)

Bronchography in pulmonary tuberculosis. Vest. rent. i rad. 35 no. 4:26-31 Jl-Ag '60. (MIRA 14:2)

1. Iz kafedry tuberkuleza (zav. - prof. A.Ye. Rabukhin), 2-y kafedry rentgenologii (zav. - prof. Yu.N. Sokolov) TSentral'nogo instituta usovershenstvovaniya vrachey (direktor M.D. Kovrigina), klinicheskoy bol'nitsy "Zakhar'ino" (glavnyy vrach V.P. Petrik) i TSentral'noy klinicheskoy bol'nitsy imeni N.A. Semashko Ministerstva putey soobshcheniya (glavnyy vrach A.A. Potsubeyenko).
(TUBERCULOSIS) (BRONCHI—RADIOGRAPHY)

SMULEVICH, V. B. Cand Med Sci -- "Bronchography in pulmonary tuberculosis." Mos, 1961 (State Sci Res X-Ray Radiological Inst of the Min of Health RSFSR) (KL, 4-61, 211)

SMULEVICH, V.B.; SHERMAN, A.Sh.

Experience in bronchography in an antituberculosis clinic.
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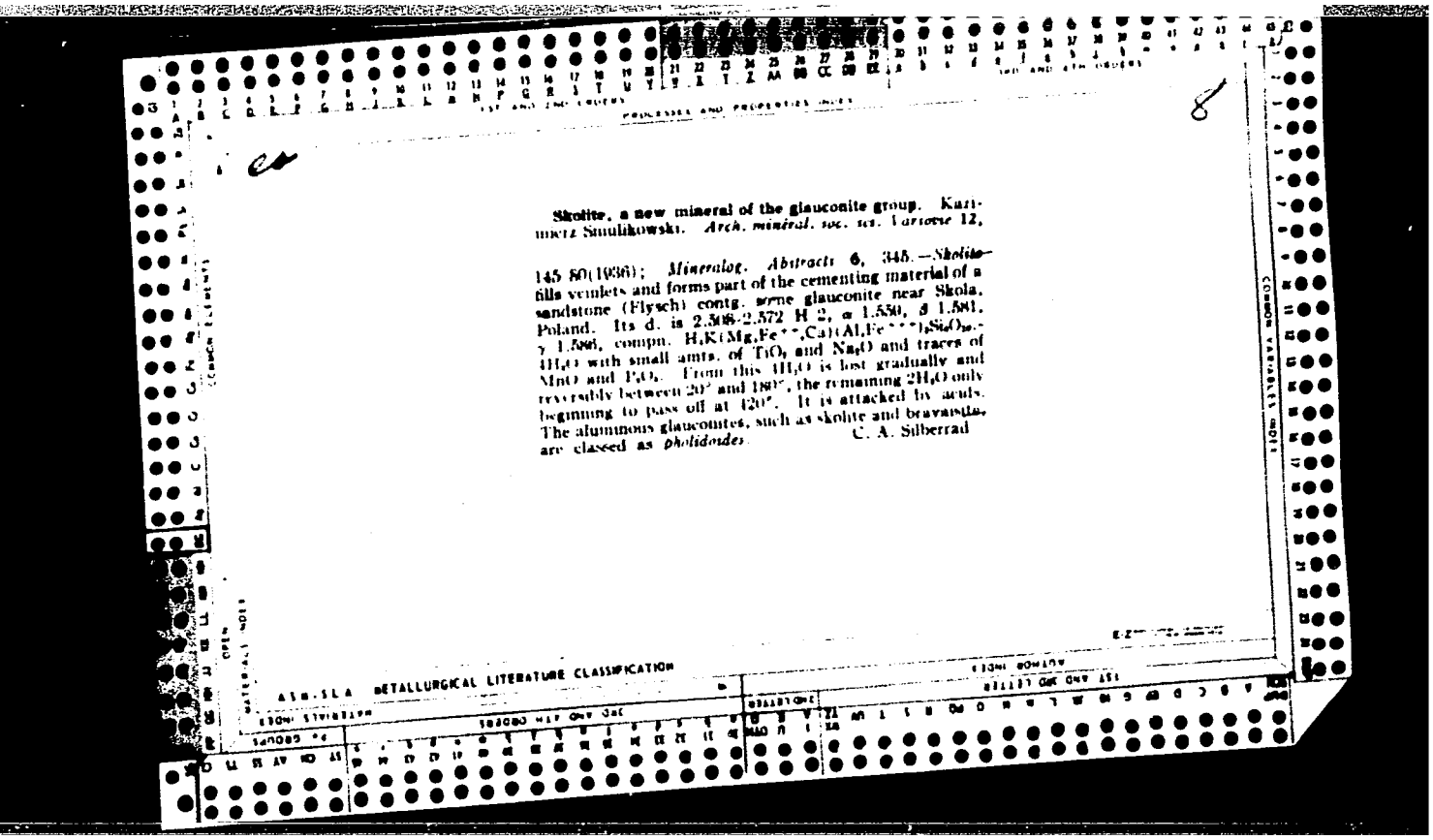
1. Iz kafedry tuberkuleza (zav. - prof. A.Ye. Rabukhin) TSentral'nogo instituta usovershenstvovaniya vrachey (dir. V.P. Lebedeva) i protivotuberkuleznogo dispansera No.11 (glavnyy vrach G.V. Kotsubey, zamestitel' po meditsinskoy chasti M.M. Zakin).
(TUBERCULOSIS) (BRONCHI--RADIOGRAPHY)

BULANOVA, S.I.; SMULEVICH, V.B.; SHERMAN, A.Sh.

Role of a dispensary for tuberculosis control in the detection of lung cancer. Vop. onk. 11 no.3:85-89 '65. (MIRA 18:6)

1. Iz protivotuberkuleznogo dispansera No.11 Moskvy (glavnyy vrach - kand. med. nauk A.Sh. Sherman) i 1-go khirurgicheskogo otdeleniya (zav. - doktor med. nauk B.Ye. Peterson) Instituta eksperimental'noy i klinicheskoy onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. N.N. Blokhin).

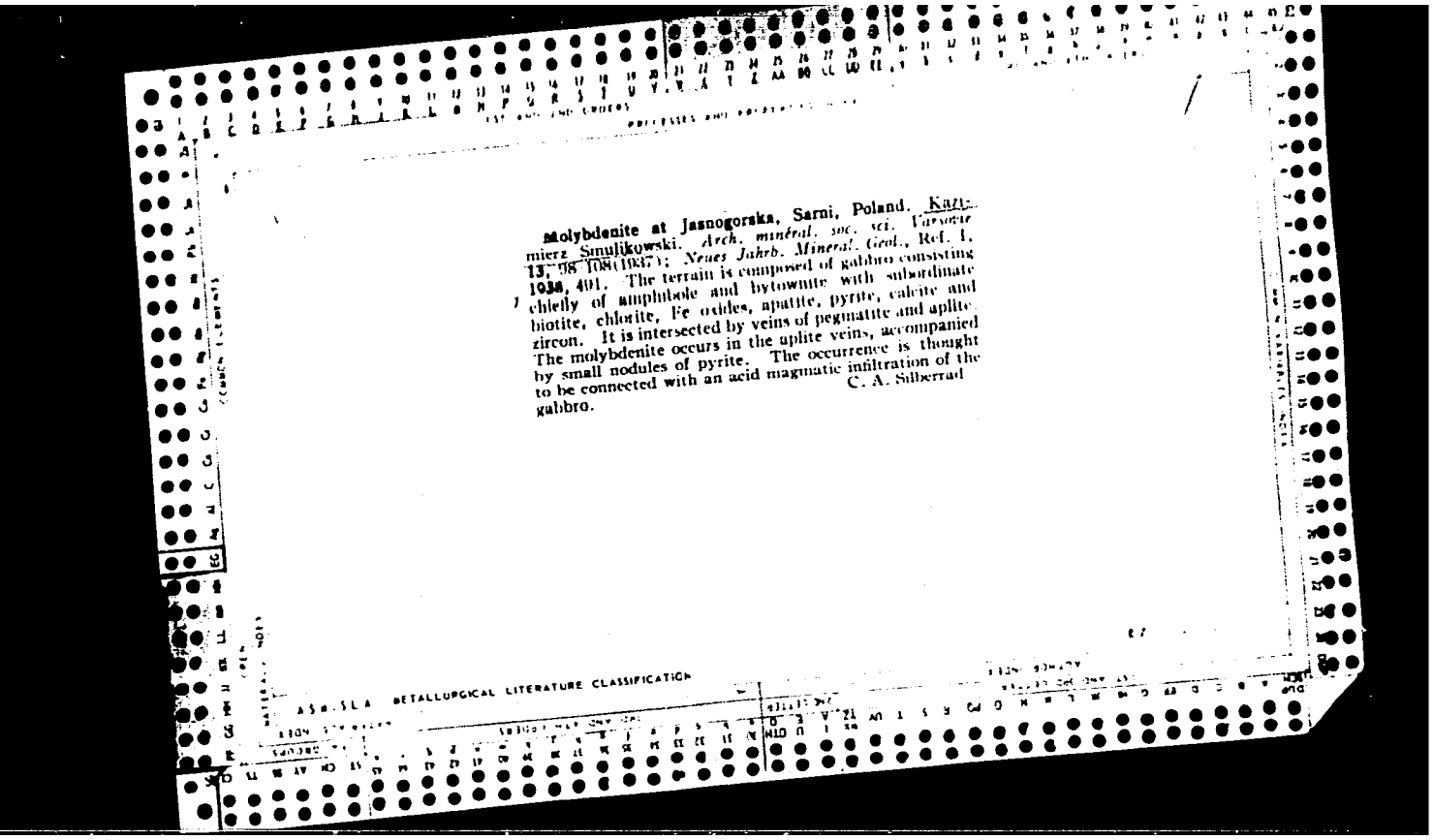


Skolite, a new mineral of the glauconite group. Kazimierz Smulikowski. *Arch. mineral. soc. sci. Varsovie* 12, 145-80(1936); *Mineralog. Abstracts* 6, 345.—*Skolite* fills vesicles and forms part of the cementing material of a sandstone (Flysch) contg. some glauconite near Skola, Poland. Its d. is 2.508-2.572 H 2, α 1.550, β 1.581, γ 1.586, compn. $H_2K(Mg,Fe^{++},Ca)(Al,Fe^{+++})_4Si_8O_{28}\cdot 4H_2O$ with small amts. of TiO_2 and Na_2O and traces of MnO and P_2O_5. From this $4H_2O$ is lost gradually and reversibly between 20° and 180°, the remaining $2H_2O$ only beginning to pass off at 120°. It is attacked by acids. The aluminous glauconites, such as skolite and beavaisite, are classed as *pholidodes*.

C. A. Silberrad

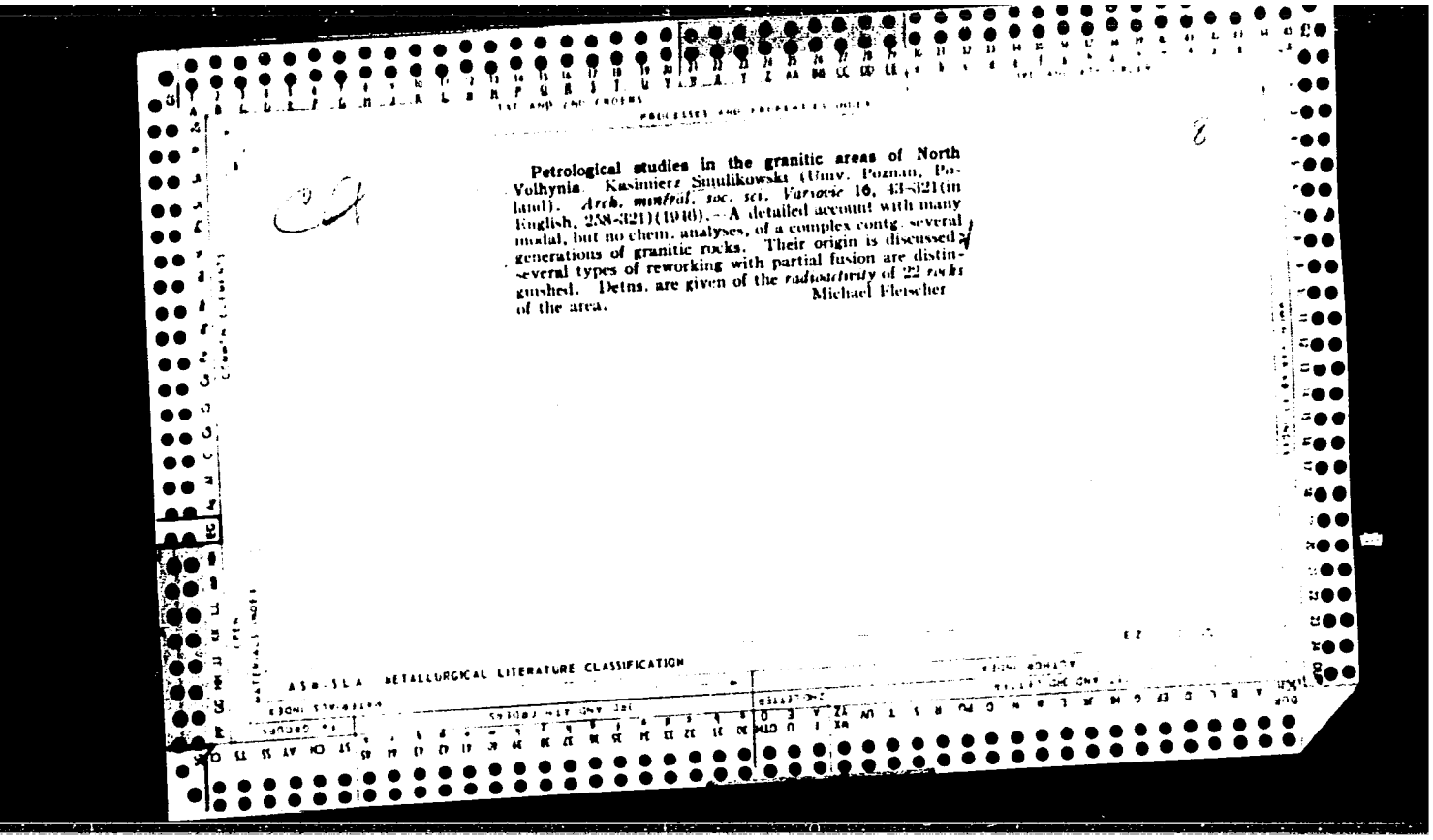
Anorthosite of Pico de Teyde (Canary Islands). Kazimierz Smulikowski. *Arch. mineral. soc. sci. Varsovie* 13, [illegible](1937); *Neues Jahrb. Mineral. Geol.*, Ref. I, 1938, [illegible]. A complete analysis of glassy phonolite is given, as is also one of anorthoclase carefully sepd. from the glassy material in which it is embedded. This had d. 2.5867, n_α 1.5238, n_β 1.5288, n_γ 1.5302. Variations in the optical consts. showed that the more difficultly fusible soda felspar formed the interior, the more easily fusible potash felspar the exterior. C. A. Silberrad

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



Molybdenite at Jasnogorska, Sarni, Poland. Kazimierz Smulikowski. *Arch. minéral. soc. sci. Varsovie* **13**, 98–108 (1937); *Neues Jahrb. Mineral. Geol.*, Ref. I, **1938**, 401. The terrain is composed of gabbro consisting chiefly of amphibole and bytownite with subordinate biotite, chlorite, Fe oxides, apatite, pyrite, calcite and zircon. It is intersected by veins of pegmatite and aplite. The molybdenite occurs in the aplite veins, accompanied by small nodules of pyrite. The occurrence is thought to be connected with an acid magmatic infiltration of the gabbro.

C. A. Silberrad



Petrological studies in the granitic areas of North Volhynia. Kasimierz Smulikowski (Univ. Poznan, Poland). *Arch. mineral. soc. sci. Varsovie* 16, 43-321(in English, 258-321)(1940).—A detailed account with many modal, but no chem. analyses, of a complex contg. several generations of granitic rocks. Their origin is discussed; several types of reworking with partial fusion are distinguished. Detns. are given of the *radioactivity* of 22 *rocks* of the area.
Michael Fleischer

SMULIKOWSKI, KAZIMIERZ

Smulikowski, Kazimierz: Geochemia. Warsaw: Wydawn. Państwowego Inst. Geol. 1952. 363 pp.

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Smulikowski, K

Crystallochemical aspects of glauconite. K. Smulikowski. *Bull. acad. polon. sci., Classe III*, 2, [illegible]

English).—Analyses of 68 glauconites and 67 other micas (muscovite, biotite, phengite, sericite) selected from the literature were recalcd. for cation ratios according to the formula $R_yM_w[(OH)_2Si_{4-x}Al_xO_{10}].nH_2O$, where R = large cations (K, Na, Rb, Ca, Sr, Ba) and M = medium cations (Al, Fe, Mg, Ti, Li, Mn). y, x, and w are related as follows: $y + c = x + s + 3t$, where c = sum of large bivalent interlayer cations, s = sum of medium cations of valence other than 3, and $u = 2 - w$, pos. if $w < 2$, neg. if $w > 2$. For glauconites $x \ll y \leq 1$, $w \cong 2$, and $Al^{o} < Fe(III)$. In glauconites, x = 0.1–0.7 (usually 0.3–0.4), y = 0.5–1.0 (usually 0.7–0.8), Fe(III) in the octahedral layer is 1.0–1.1, and Al is 0.3–0.4. The statistical av. compn. of glauconite is $(K_{0.87}Na_{0.08}Ca_{0.01})(Fe^{III}_{1.05}Mg_{0.41}Al_{0.38}Fe^{II}_{0.16})[Si_{3.89}Al_{0.11}O_{10}(OH)_2].nH_2O$. When dried above 180°, the glauconite lattice shrinks and H_2O mols. can no longer be readsorbed in interlayer spaces. Constitutional water (OH ions in tetrahedral layers) is expelled above 400°. The older the glauconite and the higher the CaO content of the contg. sediment, the smaller is the excess of Fe(III) over Al in the octahedral layer and the greater the proportion of interlayer cations. This may be due to accidental selection of analyses. A classification of micas is given based on relative values of x, y, and w.

Esther W. Claffy

Smulikowski, Kazimierz

POL.

The problem of glauconite. Kazimierz Smulikowski (Univ. Warsaw). *Polska Akad. Nauk, Kom. Geol., Arch. Mineral.*, 18, 21–120(1954)(in English).—A comprehensive review with 60 references. Chem. analyses of 68 glauconites are recalcd. and compared with 67 analyses of illites, hydrous micas, muscovites, phengites, sericites, and biotites. The general formula of glauconite is $R_xAl_y[Si_{4-x}Al_xO_{10}(OH)_2]\cdot nH_2O$, with $x < y < 1$, $w = 2$, and $Fe^{3+} >$ Al in octahedral coördination. The glauconites grade into the illites in compn. In glauconite the Al content in the octahedral layer and the total interlayer cations appear to increase with the geol. age of the samples and with the $CaCO_3$ content of the sediments. This seems to indicate variation during geol. time of the compn. of the ocean.

Michael Fleischer

SMULIKOWSKI, K.

Thomas F. W. Barth's Theoretical Petrology; a book review. p. 325.
ARCHIWUM MINERALOGICZNE, Warszawa, Vol. 18, no. 1, 1954 (published 1955).

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S. ULIKOWSKI, E.

Thugutt, S. Geochimica et Cosmochimica Acta; a review of a periodical. p. 332.
Polish mineralogical bibliography, 1940-1950. p. 339.
ARCHIWUM MINERALOGICZNE, Warszawa, Vol. 18, no. 2, 1954 (published 1955).

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Cataclasites in the neighborhood of Cieszow, Lower Silesia. Kasimierz Smulikowski (Univ. Warsaw). *Biul. Inst. Geol.* No. 112, 5–77(in English, 67–76)(1956).—Spilitic and keratophyric lavas and tuffs are bordered by cataclastic quartz-albite rocks and by greenstones cut by secondary albite and quartz. Petrographic data and a chem. analysis of a rock are given. Michael Fleischer

SMULIKOWSKI, KAZIMIERZ

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Warszawa, Poland 1958

Monthly List of European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959

Uncl.

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1. Institute of Geology, Polish Academy of Sciences.

(Bulgaria) (Granite)

SMULIKOWSKI, Kazimierz, prof.

The Geological Sciences Centre from 1956-1960, and its responsibilities for the future. Review Pol Academy 6 no. 4:39-44 O-D '61.

1. Director of the Geological Sciences Center, Warsaw, Palac Staszica, Nowy Swiat 72; Corresponding Member of the Polish Academy of Sciences.

SMULIKOWSKI, Kazimierz

The Institute for Geologic Sciences in the five year period 1956-1960 and its assignments for the future. Nauka Polska 9 no.3:109-120 '61.

1. Czlonek korespondent Polskiej Akademii Nauk, Zaklad Nauk Geologicznych, Kierownik: Smulikowski, Kazimierz, prof., Warszawa, Palac Staszica, Nowy Swiat 72.

SMULIKOWSKI, Kazimierz

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(Polish Academy of Sciences) (Geology)

SMULIKOWSKI, K

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1. Institute of Geological Sciences of the Polish Academy of Sciences, Warsaw. Submitted January 22, 1964.

SMULIKOWSKI, W.

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(Poland-- Gneiss)

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Evolution of the amphibolite complex of Upper Revdalen, (Hornsund region, Vestspitzbergen). Bul geolog PAN 8 no.2:85-93 '60.

1. Institute of Geology, Polish Academy of Sciences. Presented by K. Smulikowski.

(Spitsbergen) (Amphobolite)

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"Field planting of cumin seed." p. 13
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SMULOV, N.

Some unfounded recommendations on the use of machinery in laying concrete surfaces ("Over-all mechanization of concrete surface construction." A.N.Zashchepin, M.S.Zel'manovich, N.R.Luk'ianov. Reviewed by N.Smulov). Avt.transpr.32 no.6:40 Je '54.(MLRA 7:9)
(Roads, Concrete) (Zashchepin, A.N.) (Zel'manovich, M.S.)

SEMPINSK[illegible] E[illegible], SMULSKA Barbara, MLYN[illegible]AK [illegible]

Quan[illegible] determination of pyrim[illegible] by [illegible] them.
Nauk[illegible] p[illegible] Lodz no.[illegible]

[illegible] Department of B[illegible]chemistry, University, Lodz.

USHAKOV, S.N.; KLIMOVA, O.M.; KARCHMARCHIK, O.S.; CHUL'SKAYA, E.M.

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1. Chlen-korrespondent AN SSSR (for Ushakov).
(BLOOD PLASMA SUBSTITUTES)
(VINYL COMPOUND POLYMERS)
(CANCER RESEARCH)

SMUL'SKAYA, O. P.

A biological method for the preservation of apple juice of low alcohol content. O. P. Smul'skaya. *Trudy Odess. Tekhnol. Inst. Pishchevoi i Kholodil'not Prom.* 5, No. 2, 99–118(1953); *Referat. Zhur., Biol.* 1955, No. 487.—Nitrogenous compds. are removed from the apple juice by growing of yeasts for 16–19 hrs. Apple juice in which total N has been reduced to 1/3 the original proved most stable.

B. S. Levine

MD

SHUL'SKAYA, T.K., red.

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Turysta

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

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[Silicon transistor diodes and triodes; manufacture techniques] Poluprovodnikovye kremnievye diody i triody, tekhnologiia proizvodstva. Moskva, Izd-vo "Energiia," 1964. 183 p. (MIRA 17:8)

ZELIKMAN, G.A.; MAZEL', Ye.Z.; PRESS, F.P.; FRONK, S.V.; DOBKIN, A.S., red.; SHUL'SKIY, A.S., red.

[Silicon diodes and triodes; their production technology] Poluprovodnikovye kremnievye diody i triody; tekhnologiia proizvodstva. Moskva, Energiia, 1964. 183 p. (MIRA 17:12)

ARISTOV, V.V.; SMUL'SKIY, I.Ya.

Structure and conditions of the formation of an intrusive of ore-bearing muscovite granites. Izv.vys.ucheb.zav.;geol. i razv. 4 no.9:25-41 S '61. (MIRA 14:9)

1. Moskovskiy geologorazvedochnyy institut imeni Ordzhonikidze.
(Muscovite)

SMUL'SKIY, I.Ya.; SLIATOV, Ye.I.

New data on the structure and characteristics of the localization of mineralization in the Kadaya ore zone. Izv.vys.ucheb.zav.; geol. i razv. 8 no.10:86-91 O '65. (MIRA 19:1)

1. Moskovskiy geologorazvedochnyy institut imeni Ordzhonikidze.

SMUL'SKIY, V. Ya Cand. Tech. Sci.

Dissertation: "Investigation of the Process of Upsetting Bronze Bushings."

18 May 49

Moscow Inst for Mechanization and Electrification of Agriculture

imeni V. M. Molotov

SO Vecheryaya Moskva
Sum 71

IVANOV, Ye.B.; SMUL'SON, A.S.; BELUKHA, A.A.; MUCHNIK, D.A.; KAL'CHENKO, V.I.

Predicting the size of coke. Koks i khim. no.10:14-19 '62. (MIRA 16:9)

1. Krivorozhskiy metallurgicheskiy zavod.
(Coke)

BRUK, A.S.; LEYBOVICH, R.Ye.; IVANOV, Ye.B.; SMUL'SON, A.S.; BELUKHA, A.A.; MUCHNIK, D.A.; FARTUSHNAYA, R.M.; Prinimali uchastiye: KUTEVOY, P.M.; GOL'DBERG, P.Ya.; NECHAYEVA, A.P.; KUBYSHKINA, L.I.; SHEYKHET, A.M.; VASIL'CHENKO, S.I.; BARASH, D.A.; KARPOVA, K.K.; KHODANKOV, A.T.

Effect of temperature changes in the control heating flues on the quality of the metallurgical coke. Koks i khim. no.7:26-27 '63. (MIRA 16:8)

1. Dnepropetrovskiy metallurgicheskiy institut (for Bruk, Leybovich, Kutevoy, Gol'dberg, Nechayeva, Kubyshkina, Sheykhet). 2. Krivorozhskiy metallurgicheskiy zavod (for Ivanov, Smul'son, Belukha, Muchnik, Fartushnaya, Vasil'chenko, Barash, Karpova, Khodankov).

(Coke ovens) (Coke--Testing)

L 03970-67 EWT(m) DS/FDN/WW

ACC NR: AP6033481 SOURCE CODE: UR/0413/66/000/018/0083/0084

INVENTOR: Khanin, I. M.; Smul'sov, A. S.; Brodskiy, E. V.; Mizin, V. A.

ORG: none

TITLE: Liquid atomizer. Class 24, No. 186066

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 83-84

TOPIC TAGS: fuel atomizer, fuel atomization, fuel injector

ABSTRACT: The proposed liquid atomizer consists of a housing containing a guide assembly inside it. In order to obtain uniform atomization of large volumes of liquids at low pressures, the nozzle guide assembly is provided with disks, placed one above another, and having offcenter openings with different diameters. A cylindrical partition is mounted under the upper disk (see Fig. 1). Orig. art. has: 1 figure.

[WA No. 88]

Card 1/2 UDC: 697.932.6

L 08576-67

ACC NR: AP6033481

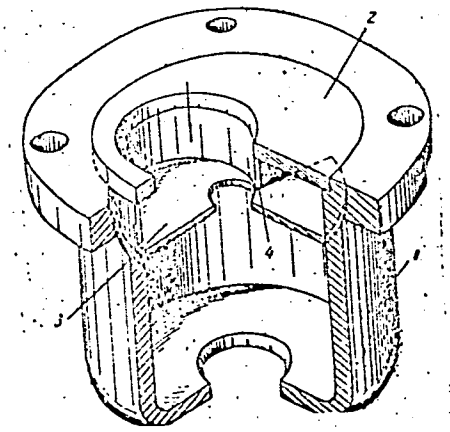


Fig. 1. Liquid atomizer

1 - Housing; 2 - upper disk; 3 - lower disk; 4 - partition.

SUB CODE: 21/ SUBM DATE: 15Apr65

Card 2/2

SMUL'YAN, YU. L.

Mathematical Reviews
Vol. 14 No. 9
October 1953
Analysis

Šmul'yan, Yu. L. Isometric operators with infinite deficiency indices and their orthogonal extensions. Doklady Akad. Nauk. SSSR (N.S.) 87, 11-14 (1952). (Russian)

Results announced by Livšic (same Doklady (N.S.) 58, 13-15 (1947); Mat. Shornik N.S. 26(68), 247-264 (1950); these Rev. 9, 446; 11, 669) are extended here. Let H be a Hilbert space, G a closed linear subspace of H, and T a bounded operator on H such that T is isometric on G and such that $f \in G^{\perp}$ implies $Tf \in (T(G))^{\perp}$. Let T on G be denoted by V and on $G^{\perp}$ by W. Any operator L such that $V \subset L \subset T$ is called an orthogonal extension of V. Let $w(T, \zeta)$ be defined as $(T-\zeta I)(T-\zeta T^{*})^{-1}$ on the Domain $G^{\perp}$ for all complex ζ such that ζ^{-1} is a regular point for T. Let $w(\zeta) = -w(V, \zeta)$. A number of theorems are announced, some proofs being sketched, of which the following are typical: 1) T has a bounded inverse if and only if W has a Bounded inverse. 2) If $w(T, \zeta)$ exists, then

$$w(T, \zeta) = \left[W - w(\zeta)\right]\left[E - Ww(\zeta)\right]^{-1},$$

where E is the indentity operator on G. 3) Suppose that V has equal deficiency indices, so that V has a unitary

(over)

Con't.
extension, and let U be any such extension. Let $w_D(\zeta)$ be the operator $U^{-1}w(\zeta)$. Let ζ_0 be a complex number of absolute value 1 such that for some positive number k, $\| Vf - \zeta_0 f \| \geq k \| f \|$ for all $f \in G$. Then $w_D(\zeta)$ is regular and unitary on an arc of the unit circle containing ζ_0. 4) If $w_D(\zeta)$ is regular and unitary on an arc of the unit circle, then: a) every point of this arc has the property ascribed to ζ_0 in 3) above; b) for every ζ on this arc, V admits a unitary extension for which ζ is a regular point. For the case in which V has finite deficiency indices, this is a theorem of Livšic [second cited article]. E. Hewitt.

8-9-54 LL

Mathematical Reviews
Vol. 14 No. 11
Dec. 1953
Analysis

Šimul'yan, Yu. L. Riemann's problem for positive definite matrices. Uspehi Matem. Nauk (N.S.) 8, no. 2(54), 143-145 (1953). (Russian)

Let L be the unit circle $|z|=1$, D^+ its interior, D^- its exterior, $A(z)$ a matrix of functions $a_{ij}(z)$ $(i, j=1, \cdots, n)$ defined on L and satisfying a Holder condition, $\det A \neq 0$ on L. The homogeneous Riemann problem is to find a piecewise continuous vector $\varphi(z)$ with components $\varphi_i^+(z)$ regular in D^+ and $\varphi_i^-(z)$ regular in D^- such that $\varphi^+ = A\varphi^-$ on L. The author proves that if A is positive definite on L then the particular indices of this problem are all 0 [for definition of particular indices see Gahov, Doklady Akad. Nauk SSSR (N.S.) 67, 601-604 (1949); these Rev. 11, 109]. This result is used to obtain from the solution of the Riemann problem the solution of the following problem: To find a matrix $F(z)$ of functions f_{ij} regular in D^+ and continuous in $|z| \leq 1$ such that [illegible] on L.

SMUNEV, V. zaboyshchik

Productive utilization of every minute. Mast. ugl. 4 no.1:6 Ja '55. (MLRA 8:6)
(Donets Basin--Coal mines and mining)

SMURENKOV, V.

Results of reorganization of management of the housing economy. (MIRA 11:9)
Fin. SSSR 19 no.8:72-73 Ag '58.

1. Zaveduyushchiy Ryazanskim gorodskim finansovym otdelom.
(Ryazan--Housing)

SMURGOVICH, G.K., inzh.; TEN'KAYEV, N.V., inzh.; SEMENOVA, V.V., inzh.

Some results of the study of the various modes of operation of VPT-25-3 turbine units. Sbor. nauch. soob. SPI no.17:111-124 '62. (MIRA 17:6)

SMURNOV, K. V., Doc Tech Sci -- (diss) "Axially symmetric shells in construction structures." Moscow, 1960. 8 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Order of Labor Red Banner Construction Engineering Inst im V. V. Kuybyshev); 200 copies; price not given; (KL, 22-60, 135)

SMUROV, A.

Improve organizational work. Pozh.delo 5 no.9:1-2 S '59.
(MIRA 13:1)

1. Zamestitel' nachal'nika Glavnogo upravleniya pozharnoy okhrany Ministerstva vnutrennikh del SSSR.
(Fire prevention)

SMUROV, A.

Work carried out by the Central Scientific Research Institute of Fire Prevention. Pozh.delo 7 no.4:3 Ap '61. (MIRA 14:4)

1. Nachal'nik TSentral'nogo nauchno-issledovatel'skogo instituta protivopozharnoy oborony.
(Fire prevention—Research)

SMUROV, A.

Strengthen the links between science and practice. Pozh.delo 8 no.7:1-2 Jl '62. (MIRA 15:8)

1. Nachal'nik TSentral'nogo nauchno-issledovatel'skogo instituta protivopozharnoy oborony. (Fire prevention)

SOBOLEV, Anatolii Antonovich.

SOBOLEV, Anatolii Antonovich. ... Mineral'nye resursy S.S.S.R. Mikkeli' ... Moskva, Geolog. izd-vo Glavn. geologo-razved. upr., 1931. 106 p. (Glavnoe geologo-razvedochnoe upravlenie. Sektor fosfatov.)
"Literatura": p. [109]-109.

DLC: TN490.M656

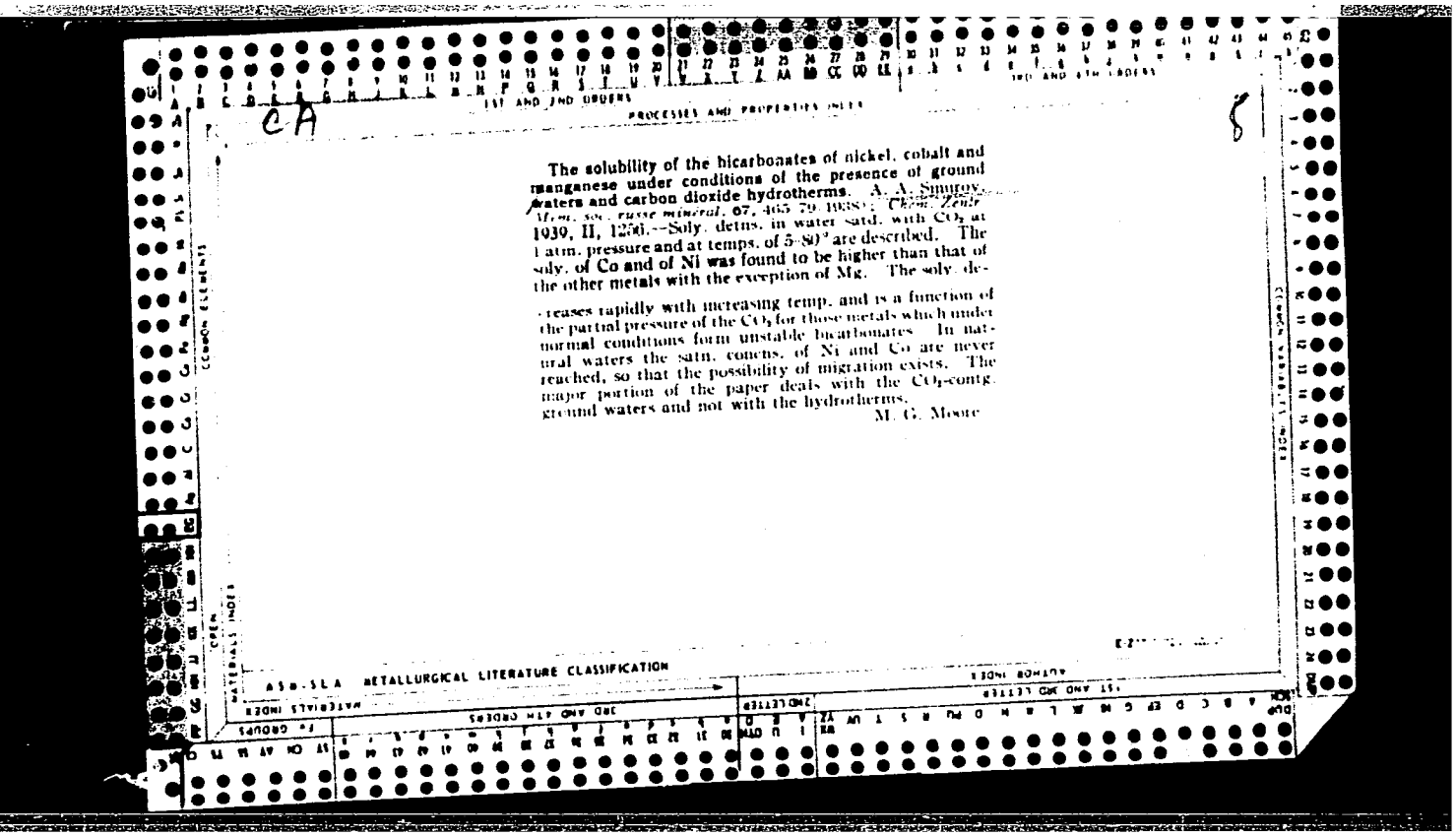
SO: IC, Soviet Geography, Part I, 1951, Uncl.

CA

9

Extracting nickel from low grade ores. A. A. Smirnov. Russ. 39,303, Oct. 31, 1934. The ores are extd. with HCl, Fe is removed from the soln. by known methods such as treatment with $MgCO_3$ or $CaCO_3$, and the salts after evapn. to dryness are hydrolyzed with steam superheated to 350-400°. Ni is then extd. from the mixt. by the usual metallurgical methods, while the HCl vapors are recirculated for the extn. of new ore.

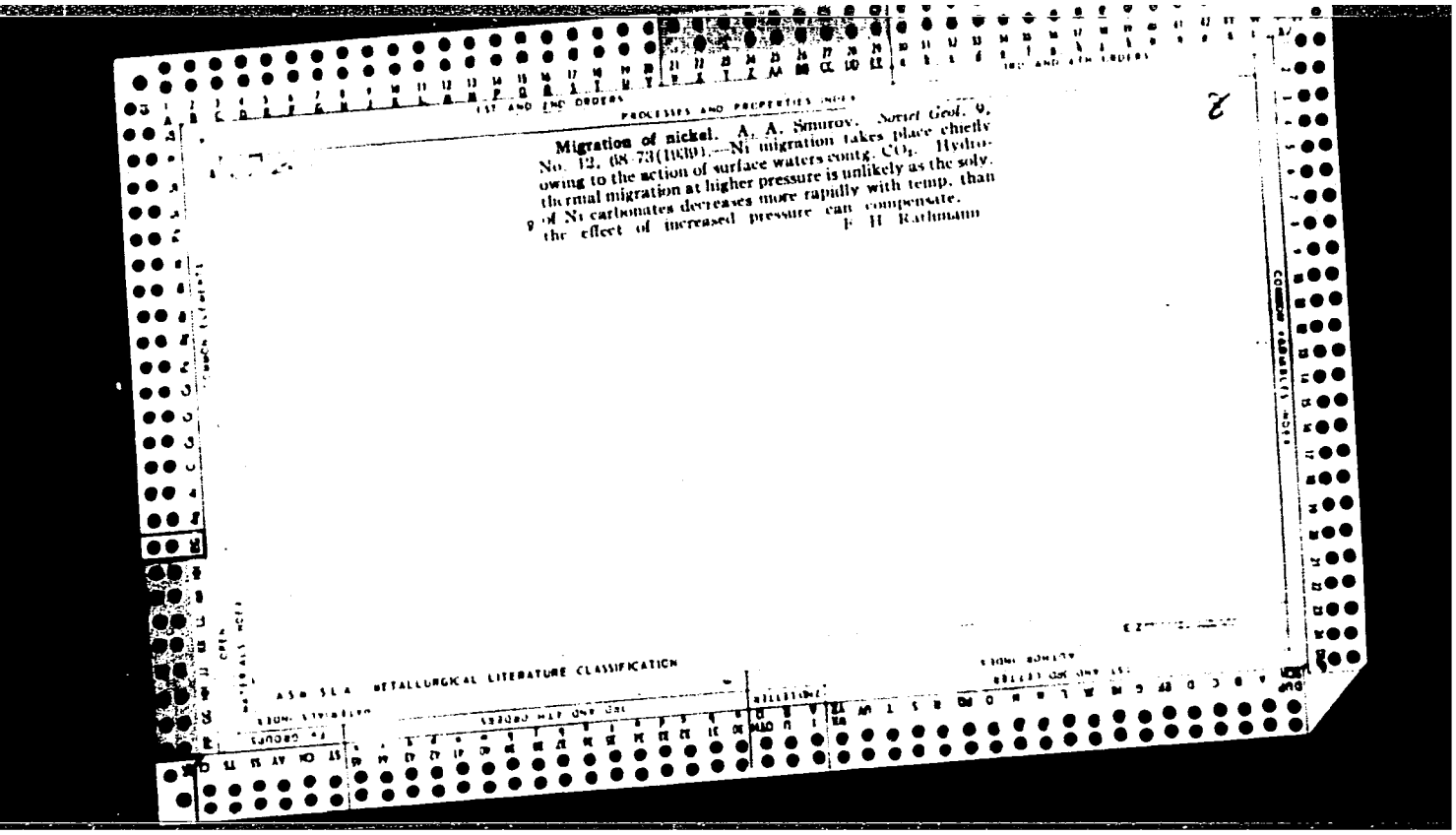
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



CA

The solubility of the bicarbonates of nickel, cobalt and manganese under conditions of the presence of ground waters and carbon dioxide hydrotherms. A. A. Smirnov. *Mem. soc. russe mineral.* 67, 465-79 (1938); *Chem. Zentr.* 1939, II, 1250.—Soly. detns. in water satd. with CO_2 at 1 atm. pressure and at temps. of 5-80° are described. The soly. of Co and of Ni was found to be higher than that of the other metals with the exception of Mg. The soly. decreases rapidly with increasing temp. and is a function of the partial pressure of the CO_2 for those metals which under normal conditions form unstable bicarbonates. In natural waters the satn. concns. of Ni and Co are never reached, so that the possibility of migration exists. The major portion of the paper deals with the CO_2-contg. ground waters and not with the hydrotherms.

M. G. Moore



Migration of nickel. A. A. Smurov. *Soviet Geol.* 9, No. 12, 68–73(1939).—Ni migration takes place chiefly owing to the action of surface waters contg. CO_2. Hydrothermal migration at higher pressure is unlikely as the solv. of Ni carbonates decreases more rapidly with temp. than the effect of increased pressure can compensate.
F. H. Rathmann

VIKULOVA, M.F.; ZVYAGIN, B.B.; MIKHAYLOV, B.M.; BERLIN, T.S.; ORESHNIKOVA, Ye.I.; SHAKHOVA, R.A.; IVANOVA, I.I.; TATARINOV, P.M., prof., red.; GEYSLER, A.N., prof.red.; DOMINIKOVSKIY, V.N., kand.geologo-mineralogicheskikh nauk, red.; KNIPOVICH, Yu.N., kand. geologo-mineralogicheskikh nauk; SMUROV, A.A., kand. geologo-mineralogicheskikh nauk; FRANK-KAMENETSKIY, V.A., kand. geologo-mineralogicheskikh nauk; BABINTSEV, N.I., red.izd-va; KRYNOCHKINA, K.V., tekhn.red.

[A methods manual on the petrographic and mineralogical study of clays] Metodicheskoe rukovodstvo po petrografo-mineralogicheskomu izucheniiu glin; trudy Instituta. Sost. kollektivom avtorov pod rukovodstvom M.F. Vikulovoi. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1957. 447 p. (MIRA 11:2)

1. Leningrad. Vsesoyuznyy geologicheskiy institut. 2. Chlen-korrespondent AN SSSR (for Tatarinov)
(Clay)

LOPATINA, N.L., LOSEV, N.V., SMUROV, A.A.

Experimental data on the behavior of lead, zinc, copper, and iron sulfides in colloidal solutions at high temperatures. Geol. rud. mestorozh. no.4:52-73 Jl-Ag '60. (MIRA 13:8)

1. Vsesoyuznyy geologicheskiy nauchno-issledovatel'skiy institut, Leningrad.
(Sulfides) (Colloids)

LEBEDEV, M.G.; SMUROV, A.M.

Peculiarities in the manufacture of forged bevel gear. Kuz.-shtam. proizv. 3 no.11:15-18 N '61. (MIRA 14:11)
(Forging) (Gearing, Bevel)

SMUROV, A.M.; NIKITIN, S.V.

Forces needed for the extrusion of steering knuckles. Avt. prom. 27 no. 4:35-40 Ap '61. (MIRA 14:4)

1. Nauchno-issledovatel'skiy tekhnologicheskiy institut avtomobil'noy promyshlennosti.
(Metalwork) (Automobiles—Steering gear)

LEBEDEV, M.G.; SMIROV, A.M.

Press forming of groove bushes for stamping toothed pinions. Avt. prom. 27 no.8:37-39 Ag '61. (MIRA 14:10)

1. Nauchno-issledovatel'skiy tekhnologicheskiy institut avtomobil'noy promyshlennosti.

(Forging)

KHUKHRIN, P.N.; LEBEDEV, M.G.; SMURGV, A.M.

Machining bevel gear blanks stamped with ready teeth. Stan.i instr. 32 no.11:27-38 N '61. (MIRA 14:10)
(Gear cutting)

S/182/62/000/006/002/004
D040/D113

AUTHORS: Lebedev, M.G., and Smirov, A.M.

TITLE: Gear forging die inserts produced by press forging

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 6, 1962, 8-12

TEXT: NIIAvtoprom and the ZIL and GAZ automobile plants have developed techniques for hot press forging die inserts used for producing gears by forging. Die sinking by this method has proved dependable, and is cheap compared to other mechanical means. Detailed engineering information includes: drawings of the die set, master punch and inserts; calculation of allowances; data on heating, preliminary swaging of blanks, final heat treatment and machining after forging. Inserts for only two gears are dealt with - the differential pinion of the ЗИЛ-164 (ZIL-164) truck, and the differential axle pinion of the ГАЗ -51 (GAZ-51) truck. Both are straight-tooth bevel gears. An insert is produced in 2-3 strokes of the master punch in a 1600 or 1500 t hot crank press from blanks of 3Х2В8 (3Kh2V8) steel. Friction screw presses may also be used; their

Card 1/2

S/182/62/000/006/002/004
D040/D113

Gear forging die inserts produced by press forging

comparatively large open die space permits using other tooling for press forging die cavities with helical and spiral teeth. The straight bevel die inserts are provided with shims changing the closed die space for forging other bevel gears. NIITAvtoprom has lately experimented on sinking die inserts with spiral teeth in a crank press; this is stated to be a new technique not employed in foreign practice. The experimental die set and the spiral-teeth inserts are illustrated. The first inserts had teeth pulled too deep into the cavity and had edges too deeply sheared off; this can be eliminated by proper allowance on the blanks. Replaceable master punches, connection pieces and bottom halves of the experimental die set permitted the geometrical shape of the produced die cavities to be varied. There are 8 figures.

Card 2/2

SMUROV, A.M.

Determining the specific pressure of flat die stamping. Avt.prom. 28 no.5:36-38 My '62. (MIRA 15:5)

1. Nauchno-issledovatel'skiy tekhnologicheskiy institut avtomobil'noy promyshlennosti.
(Sheet-metal work)

LEBEDEV, M.G.; SMUROV, A.M.

Manufacture of master punches for the forging of forging-die parts. Kuz.-shtam. proizv. 4 no.1:43-44 Ja '62.(MIRA 17:3)

S/182/63/000/001/009/012
A004/A126

AUTHOR: Smurov, A. M.

TITLE: Present state and problems of gear production with die-forged teeth

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 1, 1963, 33 - 37

TEXT: The author presents a general survey on the production of die-forged gears which are, in general, produced in open dies. In some cases, e.g. in die-forging shaft-gear type forgings, the preparatory operations prior to generating the teeth can be carried out in closed dies. One of the main difficulties arising in this process is to ensure complete filling of the tooth hollows, and the author gives some technological details on this operation. He enumerates the presses used for gear die-forging, compares the applicability of the various press types and devotes the greater part of his article to the manufacturing technology for the various parts of the forging die, i.e. the insert with teeth, since this has a great influence on the economic efficiency of the process. To increase the economy of the gear die-forging process, it is necessary to find ways a) to reduce the tolerances over the tooth profile or to eliminate the tolerances in in-

Card 1/2

Present state and problems of...

troducing additional calibration (die-stamping), b) to apply advanced die-forging methods, e.g. pressing in passes of the open or closed type, c) to increase the service life of forging equipment and cutting tools. There are 5 figures.

Card 2/2

SMIROV, A.M.

Present state and ofjectives in the production of gear wheels with forged teeth. Kuz.-shtam. proizv. 5 no.1:33-37 Ja '63. (MIRA 16:2)
(Gearing) (Forging)

LEBEDEV, M.G.; SMUROV, A.M.

Establishing parameters and organizing the process of the stamping of toothed automobile pinions. Avt.prom. 29 no.1:35-38 Ja '63. (MIRA 16:1)

1. Nauchno-issledovatel'skiy tekhnologicheskiy institut avtomobil'noy promyshlennosti.
(Sheet-metal work)

SMUROV, A.M.

Technological processes for the manufacture of toothed bushing. Avt. prom. 29 no.11:43-45 N '63. (MIRA 16:12)

1. Nauchno-issledovatel'skiy tekhnologicheskiy institut avtomobil'noy promyshlennosti.

SOKOLOV, N.L.; SMUROV, A.M.

Power parameters for the extrusion of rod-type forgings with various shapes of flanges. Avt.prom. 29 no.12:31-34 D '63. (MIRA 17:4)

1. Nauchno-issledovatel'skiy tekhnologicheskiy institut avtomobil'noy promyshlennosti.

SMUROV, A.M.

Effect of a tooth rim on the parameters of the forming of toothed bevel gears. Avt. prom. 30 no.3:42-43 Mr '64. (MIRA 17:6)

1. Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy promyshlennosti.

SMUROV, A.M.

Technology of low waste stamping. Avt. prom. 30 no.11:42 N '64
(MIRA 18:2)

1. Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy promyshlennosti.

L 43016-65 EWT(d)/EWT(m)/EWA(d)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(1)/EWA(c)
S/0113/64/000/012/0040/0042

ACCESSION NR: AP5007805 Pf-4 JD/HW

AUTHOR: Smurov, A. M.

TITLE: The use of counterpressure in forge presses

SOURCE: Avtomobil'naya promyshlennost', no. 12, 1964, 40-42

TOPIC TAGS: forge press, forging

ABSTRACT: Some aspects of the use of counterpressure in forging processes are presented. Particular attention is given to the operation of plastic form variation brought about by a forge with a compensating cavity closed by means of a counter-pressure instrument. Figure 1 on the Enclosure is a sectional view of a closed forge with a centrally distributed compensating cavity for stamping pieces laid out in the plane corresponding to the dimensions A_1, A_2, and a_2. The facility is also adaptable for work with bodies of rotation using dimensions D_1, D_2, and d_2. The author derives equations describing the counterpressure process. Certain cavity relationships are defined and the equation $P_2 = P_1 \psi_{init} + \int^{h_1} \psi l_2$ is given as the "equation of state" of the counterpressure process. In the equation, P_2 is a counterpressure

Card 1/3

L 43016-65
ACCESSION NR: AP5007805

force in kg, l_2 is the instantaneous length of pass of the counterpressure instrument in mm, $\eta = \frac{\delta P_2}{\delta l_2}$, and $P_{2\,init}$ is an initial counterpressure. Cavity geometry is introduced through the equation $r_1 = (A_1 - A_2)\exp\left(\frac{1}{4} + \frac{A_1}{A_2}\ln\frac{A_1}{A_1 - A_2} - \frac{2}{3}\frac{P_{2\,init} + q_1}{f_2 a_2}\right) > r_m$,

where r_1 is the level of cavity filling. Expressions for primary, secondary, and maximum counterpressure forces are developed for several prevalent special conditions. Orig. art. has: 7 equations and 1 figure.

ASSOCIATION: NIITAvtoprom

SUBMITTED: 00 ENCL: 01 SUB CODE: IE

NO REF SOV: 000 OTHER: 000

Card 2/3

L 43016-65

ACCESSION NR: AP5007805

ENCLOSURE: 01

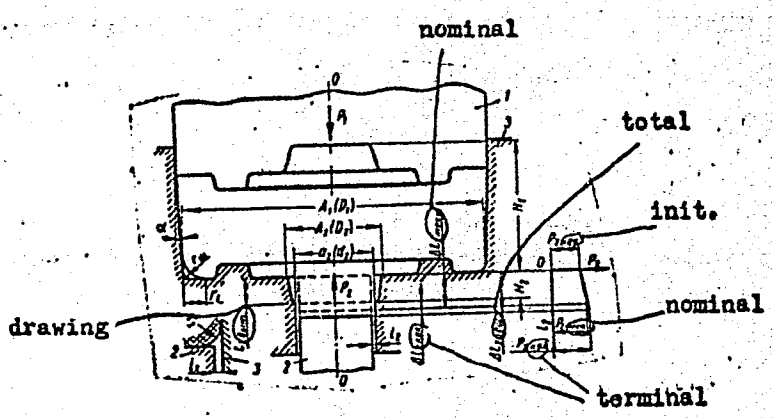


Fig. 1. Stamp for forging with counterpressure. 1 - pressure instrument; 2 - counterpressure instrument; 3 - fixed matrix

Card 3/3

ACC NR: AP7001456 (A) SOURCE CODE: UR/0413/66/000/021/0201/0201

INVENTORS: Smurov, A. M.; Smirnov, A. S.

ORG: none

TITLE: A stamp for punching forgings. Class 49, No. 188273 [announced by Scientific Research Institute of the Automotive Industry Engineering (Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy promyshlennosti)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 201

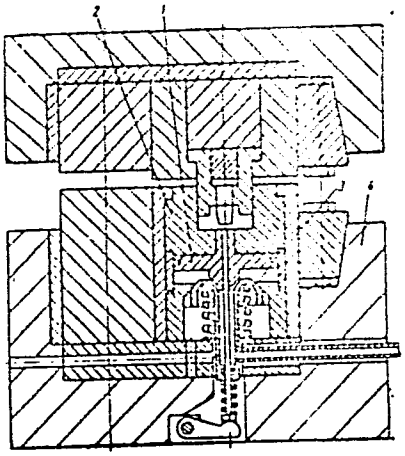
TOPIC TAGS: metal forging, metal forming, metal stamping, metallurgic machinery, metallurgic process, metalworking

ABSTRACT: This Author Certificate presents a stamp for punching forgings. The die of the stamp contains a compensating recess covered by a back pressure assembly (see Fig. 1). To provide for a free expulsion of the excess metal into the compensating recess and to diminish the deforming power, the back pressure assembly is made in the form of a cylinder with a piston, mounted on the lower plate of the stamp. The opening under the piston is accessible to the external atmosphere through a spring-loaded valve which interacts with the piston under the action of the metal being squeezed into the compensating recess.

Card 1/2 UDC: 621.733.76

ACC NR: AP7001456

Fig. 1. 1 - piston; 2 - cylinder of the piston; 3 - spring-loaded valve; 4 - lower plate of the stamp



Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 28Nov64

Card 2/2

ANASTAS'IN, V.F.; ARAKELOV, A.S.; BOBROV, A.L.; VIKHOREV, Yu.V.; VIL'DER, S.I.; GLUSHKO, I.K.; GOKUN, A.M.; PIN'KOVSKIY, Ya.I.; PASHKOV, N.D.; RYABUKHA, G.K.; REBENKO, G.S.; SMUROV, Fedor Pavlovich; SOSKIND, D.M.; SAMSONOV, B.A.; SEMENOV, A.B.; SULEYMANOV, A.B.; KHARLAMOV, A.A.; TSAR'KOV, B.N.; SHIFRIN, D.L.; SHEYNMAN, V.I.; ABAKUMOVSKIY, Dmitriy Dmitriyevich, red.toma; SVYATITSKAYA, K.P., vedushchiy red.; TROFIMOV, A.V., tekhn.red.

[Petroleum equipment; in six volumes] Neftianoe oborudovanie; v shesti tomakh. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry. Vol.4. 1959. 294 p. (MIRA 12:9)
(Petroleum refineries--Equipment and supplies)

[illegible], G. A.

Polet bystree zvuka. [Flying faster than sound]. Stenogramma publichnoi lektsii.
Moskva [Pravda] 1952, 26 p. diagrs.
Bibliography: p. [27]

DLC: TL573.S67

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress
Reference Department, Washington, 1952, Unclassified