

CLASSER EXPLORING EMERGENCY PROPERTIES OF KINSHIP AND ALLIANCE

(State Office: Institute)

L 38846-66 EWT(m)/EWP(e) GG/WH  
ACC NR: AR6011873

SOURCE CODE: UR/0031/65/000/016/0009/0009

AUTHOR: Karapet'yan, G. O.; Yudin, D. M.

TITLE: Electron paramagnetic resonance study of the effect of ionizing radiation on glasses of the  $\text{Na}_2\text{O}-\text{B}_2\text{O}_3-\text{SiO}_2$  system

SOURCE: Ref. zh. Khimiya, Abs. 16M102

REF SOURCE: Sb. Stekloobrazn. sostoyaniye. T. 3. Vyp. 4. Minsk, 1964, 44-50

TOPIC TAGS: glass, gamma radiation, radiation effect, electron paramagnetic resonance, IONIZING RADIATION, LIGHT ABSORPTION, ABSORPTION BAND

ABSTRACT: Spectra of supplementary absorption of  $\gamma$ -irradiated sodium borosilicate glasses were compared with EPR spectra. The light absorption increases with rising content of the base oxide, and the intensity of EPR signals is maximum for compositions in which  $0.3 \leq \text{Na}_2\text{O} / \text{B}_2\text{O}_3 \leq 1$ . In the range of atomic concentration ratios  $[\text{Na}]/[\text{B}] = 1$ , the maximum of induced absorption bands is observed at 550 m $\mu$ , and the EPR spectra showed that such compositions were critical ones. In irradiated glasses with the same content of Li, Na, K, Rb, and Cs (20 mole %), two resonance lines were observed, one of which was in the range of the g-factor above two; the other, a narrower one, corresponded to pure quartz glass. The replacement of alkali elements led to a change in the ratio of line intensities. It is postulated that in the one case an unpaired electron interacts with a B atom which had been in coordination 3 up to

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the formation of the trapping center, and in the other case, in coordination 4. L.  
Il'chenko. [Translation of abstract]

SUB CODE: 07, 11

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Card 2/2

ACC NR: AP6033581

SOURCE CODE: UR/0181/66/008/010/3106/3108

AUTHOR: Yudin, D. M.; Tsurikova, G. A.; Petrovskiy, G. T.

ORG: None

TITLE: Paramagnetic resonance of fluoroberyllate glasses activated with cobalt

SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 3106-3108

TOPIC TAGS: electron paramagnetic resonance, glass property, resonance line, line broadening, optic spectrum, temperature dependence

ABSTRACT: Inasmuch as the EPR spectra of cobalt-activated glasses have not been observed before, the authors attempted to obtain glasses in which the EPR of  $\text{Co}^{2+}$  could be observed at temperatures above 20K. Fluoroberyllate glass was chosen because of its rigid structure. The EPR spectrum recorded at 77K exhibited a broad resonance line with  $g = 4.28$  for the midpoint between the extrema. This line was not observed at room temperature. The spectrum was calibrated against signals from DPPH and silicate glass with  $\text{Fe}^{3+}$  in tetrahedral coordination. The measurements were made with a 3-cm microwave spectrometer (RE-1301). A correlation was observed between the intensity of the line with  $g = 4.28$  and the cobalt content in the glass. The glass color is red and its color intensity and optic spectrum are the same as in oxide glasses. The optic spectrum exhibits absorption bands characteristic of  $\text{Co}^{2+}$  in oc-

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tahedral coordination. Glasslike beryllium fluoride with cobalt has a much more intense blue color and exhibits no EPR at 77K. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 21Jan66/ ORIG REF: 001/ OTH REF: 001

Card 2/2

YUDIN, F.A.

USSR/Soil Cultivation. Mineral Fertilizers.

J-3

Abs Jour: Ref. Zhur-Biologiya, No 1, 1958, 1255.

Author : Peterburgskiy, A.V., Asarov, Kh. K., Smirnov, P.M.,  
Yudin, F.A.

Inst : Agricultural Academy imeni Timiryazev

Title : On Fertilizer Effectiveness in the Southeast Regions.

Orig Pub: Izv. Timiryazevskoy Akad., 1956, No 1, 95-116.

Abstract: In areas of the southeast parts of European Russia 20 T/hectare of manure, without irrigation, gives an increase in grain yield of 2-5 centners/hectare and more. It increases the drought- and winter-resistance of winter crops, affecting both the gray forest soils and the rich chernozems very favorably. Its effects are discernible for from five to six years. Of the mineral fertilizers the more effective combination is phosphorous with nitrogen; used alone, phosphorous is useful on chernozems

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USSR/Soil Cultivation. Mineral Fertilizers.

J-3

Abs Jour: Ref. Zhur-Biologiya, No 1, 1958, 1255.

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and nitrogen on chestnut soils, but potassium is not effective at all. Full mineral fertilization with 45 kg./hectare of N, P, and K is equal to the average strength of manure. The greatest effect is obtained when fertilizer is spread two-thirds in the autumn at ploughing and 1/3 before sowing.

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YUDIN, T. A.

USSR/Soil Science. Mineral Fertilizers.

J-3

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24732.

Author : Peterburgskiy, A.V.; Asarov, Kh. K.; Smirnov, P.M.;  
Yudin, F.A.

Inst :                     

Title : Effectiveness of Fertilization in the South-Eastern  
Regions of the USSR Under Irrigation.

Orig Pb : Izv. Timiryazevsk. s.-kh. akad., 1956, No 2, 23-36.

Abstract: Data from experimental institutions of the South-East is given about the most effective methods of the application of manure, siderites, and mineral fertilizers for various crops during irrigation.

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USSR/Soil Science. Mineral Fertilizers.

J-3

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24731.

Author : Peterburgskiy, A.V.; Asarov, Kh. K.; Smirnov,  
P.M.; Yudin, P.A.

Inst :  
Title : Effectiveness of Fertilization in the Unirrigated  
Agriculture of the South-East.

Orig Pub: Dokl. Mosk. s.-kh. akad. im. K.A. Timiryazeva, 1956,  
vyp. 23, 65-73.

Abstract: Data of experimental stations and kolkhozes in  
the south-eastern regions of the USSR on the  
effectiveness of manure and mineral fertilizers  
in unirrigated agriculture is given. Manure ap-  
plied in bare fallow under winter crops in doses  
of 20-40 t./ha. increases the harvest of the grain

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YUDIN, F.A., kand. sel'skokhozyaystvennykh nauk

Increasing the effectiveness of phosphates in various soils by  
the application of lime and blast-furnaces slag [with summary in  
English]. Izv. TSKhA no. 3:127-136 '58. (MIRA 11:7)

(Phosphates)

(Lime)

(Slag)

SMIRNOV, P.M., dotsent, kand. sel'skokhoz. nauk; YUDIN, F.A., dotsent,  
kand. sel'skokhoz. nauk

Effectiveness of mineral fertilizers in spot placement. Izv.  
TSKHA no.1:34-47 '64. (MIRA 17:4)

1. Kafedra agrokhimii i biokhimii Moskovskoy ordena Lenina  
sel'skokhozyaystvennoy akademii imeni Timiryazeva.

YUDIN, F.A., kand. sel'skokhoz. nauk

Agricultural chemistry in the Academy. Zensledie 27 no.11:89-91  
N '65. (MIRA 18:10)

1. Moskovskaya ordena Lenina sel'skokhozyaystvennaya akademiya  
imeni Timiryazeva.

YUDIN, F.A., dokent, kand. sel'skokhoz. nauk; RESHETNIKOVA, N.V., aspirant.

Using open-hearth slags as fertilizers. Izv. VSENA no.1:92-104  
'64. (MIRA 17:4)

1. Kafedra agrokhimii i biokhimii Moskovskoy ordena Lenina sel'skokhozyaystvennoy akademii imeni Timiryazeva.

GULYAKIN, I.V., prof., doktor biolog. nauk; ASAROV, Kh.K., dotsent, kand.  
sel'skokhoz. nauk; SMIRNOV, P.M., dotsent, kand. sel'skokhoz. nauk;  
YUDIN, F.A., dotsent, kand. sel'skokhoz. nauk

Urgent problems of the chemicalization of agriculture in the  
non-Chernozem zone. Izv. TSKHA no 2:8-29 '64.

(MIRA 17:12)

1. Kafedra agrokhimii Moskovskoy ordena Lenina sel'skokhozyayst-  
vennoy akademii imeni K.A. Timiryazeva.

PETERBURGSKIY, A.V., prof.; ASAROV, Kh.K., dots.; PLESHKOV, B.P.,  
dots.; SMIRNOV, P.M., dots.; VOROB'YEV, F.K., dots. [deceased];  
GULYAKIN, I.V., prof.; YUDIN, F.A., dots.; KLECHKOVSKIY,  
V.M., akademik, red.; SHLEPANOV, V.M., red.

[Agrochemistry] Agrokhimiia. Moskva, Kolos, 1964. 527 p.  
(MIRA 18:1)

YUDIN, P.F.

Organization and work experience of a public office of  
technological information. Opyt. rab. po tekhn. inform.  
1 prop. no.3:46-49 '63. (MIRA 16:12)

ALEKSEYEVA, G.Ye., kand. tekhn. nauk, dots.; MELESHKINA, L.P., dots., kand. tekhn. nauk; BALUYEV, V.K., inzh.; BAMDAS, A.M., prof., doktor tekhn. nauk; VENNIKOV, V.A., prof., doktor tekhn. nauk; YEZHKOVA, V.V., kand. tekhn. nauk; ANISIMOVA, N.D., dots., kand. tekhn. nauk; GANTMAN, S.A., kand. khim. nauk; GLAZUNOV, A.A., dots., kand. tekhn. nauk; GOGUA, L.K., inzh.; GREBENNICHENKO, V.T., inzh.; GRUDINSKIY, P.G., prof.; GORFINKEL', Ya.M., inzh.; ZVEZDIN, A.L., inzh.; KAZANOVICH, G.Ya., inzh.; KNYAZEVSKIY, B.A., dots., kand. tekhn. nauk; KOSAREV, G.V., dots., kand. tekhn. nauk; MESSERMAN, S.M., kand. tekhn. nauk, dots.; KOKHAN, N.D., inzh.; KUVAYEVA, A.P., dots., kand. tekhn. nauk; SOKOLOV, M.M., dots., kand. tekhn. nauk; LASHKOV, F.P., dots., kand. tekhn. nauk; LAZIN, A.I., inzh.; YUDIN, F.I., inzh.; LIVSHITS, A.L., kand. tekhn. nauk; METEL'TSIN, P.G., inzh.; NEKRASOVA, N.M., dots., kand. tekhn. nauk; OL'SHANSKIY, N.A., dots., kand. tekhn. nauk; POLEVAYA, I.V., dots., kand. tekhn. nauk; POLEVOY, V.A., dots., kand. tekhn. nauk [deceased]; RAZEVIK, D.V., prof., doktor tekhn. nauk; RAKOVICH, I.I., inzh.; SOLDATKINA, L.A., dots., kand. tekhn. nauk; TREMBACH, V.V., dots., kand. tekhn. nauk; FEDOROV, A.A., prof., kand. tekhn. nauk; FINGER, L.M., inzh.; CHILIKIN, M.G., prof., doktor tekhn. nauk, glav. red.; ANTIK, I.V., inzh., red. GOLOVAN, A.T., prof., red.; PETROV, G.N., prof., red.; FEDOSEYEV, A.M., prof., red.

(Continued on next card)



ALEKSEYEVA, G.Ye.--- (continued). Card 2.

[Electrical engineering manual] Elektrotekhnicheskii  
spravochnik. Pod obshchei red. A.T. Golovana i dr. Moskva,  
Energiia. Vol.2. 1964. 758 p. (MIRA 17:12)

1. Moscow. Energeticheskii institut. 2. Moskovskiy energo-  
ticheskii institut (for Golovan, Grudinskiy, Petrov,  
Fedoseyev, Chilikin, Venikov). 3. Chlen-korrespondent AN  
SSR (for Petrov).

BABANOVA, M.S.; ROSHCHINA, N.A.; SALIKOVA, M.V.; KHOKHLOVA, T.I.;  
YUDIN, F.K.

Changes of some morphological and biochemical indices of the  
blood in edema of baby pigs. Sbor. nauch. trud. Ivan. sel'khoz.  
Inst. no.19:183-189 '62. (MIRA 17:1)

1. Kafedra anatomii i fiziologii sel'skokhozyaystvennykh zhiivotnykh  
(zav. - dotsent A.K. Petrov) Ivanovskogo sel'skokhozyaystvennogo  
instituta.

YUDIN, Fedor Kuz'mich; SAVARENSKIY, Vsevolod Vladimirovich;  
GROMOVA, T.G., red.; FYATNITSKIY, V.H., tekhn. red.

[Use of polymeric materials in the textile industry]  
Ispol'zovanie polimernykh materialov v tekstil'noi pro-  
myshlennosti. Moskva, Gizlegprom, 1963. 164 p.  
(MIRA 17:1)

SAVARENSKIY, V.V.; YUDIN, P.K.

Manufacture and testing of machine parts made from polymeric materials in textile factories. Izv. vys. ucheb. zav.; tekhn. tekst. prom. no.4:137-142 '63. (MIRA 16:11)

1. Ivanovskiy tekstil'nyy institut imeni M.V. Frunze.

32002  
8/089/62/012/001/005/019  
B102/B138

214500

AUTHORS: Mal'tsev, Ye. D., Yudin, V. P., Shamin, V. S., Dolgikh, P. F.

TITLE: The thermal factor in the problem of liquid radioactive waste disposal in the Earth's interior

PERIODICAL: Atomnaya energiya, v. 12, no. 1, 1962, 36 - 39

TEXT: The temperature field is considered, which is formed in the neighborhood of liquid hot waste disposed in porous formations of the Earth's crust. A plane layer is considered, of thickness  $2h$  occupying a region  $-\infty < x, y < \infty$ ,  $-h \leq z \leq h$ . At  $x = y = 0$ ,  $-h \leq z \leq h$  there are assumed to be continuous sources incompressible liquid with a total constant power  $Q$ ,  $Q = 4\pi mhr \, dr/d\tau$ . The temperature field is given by

$$u(r, z, t) = \frac{\lambda}{2k\sqrt{\pi}} \int_{-\infty}^{\infty} \frac{e^{-\theta^2 \tau}}{\sqrt{\theta}} d\theta \int_{-h}^h e^{-\theta(z-\zeta)^2} d\zeta - \int_0^{b\sqrt{t-\frac{1}{4u^2}}} Q e^{-(\theta+\beta)\theta^2} I_0(2Qr\theta) d\theta. \quad (7).$$

The temperature is given an excessive value corresponding to an initial

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The thermal factor in the...

temperature of zero for the medium.  $r$  and  $z$  are cylinder coordinates,  $t$  the injection time,  $m$  - porosity,  $\gamma$  - density,  $c$  - specific heat,  $k$  - heat conduction coefficient,  $\beta = 2\pi\lambda mh/Q$ ,  $b^2 = Q/2\pi mh$ ,  $\theta = 1/4a^2(t-\tau)$ ,  $a^2 = k/c\gamma$  is the thermal diffusivity,  $\tau$  time counted from the moment of particle emission from the source,  $f = Ae^{-\lambda\tau}$ , the density of heat sources.

For a bore hole of  $h = 15$  m and hot waste of  $Q = 500 \text{ m}^3/\text{Curie}$  for  $t \leq 30$  years a numerical example is calculated. Conclusions: When liquid hot waste is disposed in porous formations of the Earth's crust, the environment is considerably heated. Heating temperature and activity of waste are in direct proportion. Porosity and dimensions of the stratum also have an influence. The activity disposed is thus limited by the permissible heating of the stratum, which is determined by various factors, e. g. vapor formation or physicochemical changes in the rock. The formula given is approximate since many factors have been neglected in its derivation, e. g. heat convection and sorption processes. There are 4 figures, 1 table, and 4 non-Soviet references. The three references to English-language publications read as follows: I. Perring. Repts. Atomic Energy Res. Establ., No. C/R 1294, 1957, p. 10; E. Cappinger, R. Tomlinson. Chem. Card 2/3

The thermal factor in the...

S/089/62/<sup>32002</sup>012/001/005/019  
B102/B138

Eng. Progress, 52, No. 10, 417 (1956); R. Schechter, E. Gloyna. Sawage  
and Ind. Wastes, 31, No. 10, 1165 (1959).

SUBMITTED: June 29, 1961

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Card 3/3

CHERNOV, A.; ARKHANGEL'SKIY, Yu.; GIMEYN, S., inzh (Moskva); KHAYKIN, V.;  
DASKOVSKIY, V.; DMITRIYEV, K.; YUDIN, G.; SHASHNIN, Yu.

Technological information. Okhr. truda i sots. strakh. 6  
no.5:36-42 My '63. (MIRA 16:8)

1. Laboratoriya tekhniki bezopasnosti Gosudarstvennogo vsesoyuznogo  
nauchno-issledovatel'skogo tekhnologicheskogo instituta remonta i  
ekspluatatsii mashinno-traktornogo parka (for Gimsyn).  
(Technological innovations)



YUDIN G.

OGNEV, V.B.; YUDIN, G., otvetstvennyy redaktor.

[Structural and facies characteristics of carboniferous strata  
of the Eastern Fergana Coal Basin] Strukturno-fatsial'nye osobenno-  
sti uglenosnykh tolshch Vostochnoferganskogo kamennougol'nogo bas-  
seina. Frunze, Izd-vo Kirgizskogo filiala Akademii nauk SSSR, 1946.  
66 p. (MLRA 7:11)

(Fergana--Coal geology) (Coal geology--Fergana)

YUDIN, G., starshiy inzhener

Welding stand with exhaust. Okhr.truda i sots.strakh. 4 no.7:33  
J1 '61. (MIRA 14:7)

1. Saratovskoye oblastnoye upravleniye sel'skogo khozyaystva.  
(Saratov Province--Welding--Safety measures)

YUDIN, G. B. and GOL'DSHEYN, Ye. G.

"Problems and Methods of Linear Programming" (based on materials of a book now in press) (18 December 1959)

report delivered at a seminar on cybernetics, Moscow State University

So: Problemy kibernetiki, Issue 5, 1961, pp. 289-294

GVOZDetskii, Nikolay Andreyevich, prof.; ZHUCHKOVA, Vera Kapitónovna, dotsent; FEDINA, Aleksandra Yefimovna, kand.geograf.nauk; ZAKHAROVA, Lidiya Yakovlevna; YUDIN, G.F., red.; YERMAKOV, M.G., tekhn.red.

[Physical geography of the U.S.S.R.; selected lectures for students attending geography faculties of correspondence schools] Fizicheskaya geografiya SSSR; izbrannye lektsii dlia studentov-zaochnikov geograficheskikh fakul'tetov. Pod red. N.A.Gvozdet'skogo. Moskva, Izd-vo Mosk.univ., 1959. 106 p. (MIRA 13:5)

1. Kafedra fizicheskoy geografii SSSR Moskovskogo gosudarstvennogo universiteta (for Gvozdet'skiy, Zhuchkova, Fedina, Zakharova).  
(Physical geography)

MAKUNINA, Aleksandra Aleksandrovna, dotsent; MIKHAYLOV, Nikolay Ivanovich, dotsent; PARMUZIN, Yuriy Pavlovich, starshiy nauchnyy sotrudnik; SOLOV'YEV, Aleksandr Ivanovich, dotsent; GVOZDETSKIY, N.A., prof., red.; YUDIN, G.F., red.; TERNAKOV, M.S., tekhn.red.

[Physical geography of the U.S.S.R.; selected lectures for correspondence school students attending geographical faculties of state universities] Fizicheskaya geografiya SSSR; izbrannyye lektsii dlia studentov-zaochnikov geograficheskikh fakul'tetov gosudarstvennykh universitetov. Pod red. N.A.Gvozdet'skogo. Moskva, Izd-vo Mosk.univ. No.4. 1960. 167 p.

(MIRA 14:3)  
1. Kafedra fizicheskoy geografii SSSR geograficheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta (for Makunina, Mikhaylov, Parmuzin, Solov'yev). 2. Zaveduyushchiy kabinetom istorii geografii Moskovskogo gosudarstvennogo universiteta; chlen-korrespondent Akademii pedagogicheskikh nauk (for Solov'yev). (Physical geography)

PIVNEV, F.A., kandidat tekhnicheskikh nauk; YUDIN, G.I., kandidat tekhnicheskikh nauk; ROMANENKO, I.T.

Protecting bridge spans from corrosion. Transp.stroi. 6 no.5:  
28-29 My '56. (MLRA 9:8)

1. Zamestitel' nachalnika Khar'kovskoy distantzii puti (for Romanenko).

(Bridges, Iron and steel--Corrosion)

YUDIN, G.I., dots.

In scientific, research, and educational institutes, planning  
and design bureaus and laboratories. Elek.i tepl.tiaga 14  
no.3:30 Mr '60. (MIRA 13:7)

1. Zamestitel' nachal'nika po nauchnoy rabote Khar'kovskogo  
instituta inzhenerov shelesnodorozhnogo transporta im. S.M.  
Kirova.  
(Kharkov--Railroad engineering)

VASIL'YEVSKIY, V.N.; KUZ'MIN, V.M.; YUDIN, G.M.

Results of hydrodynamic studies carried out in the Sokolovogorsk  
and Zhirnovsk fields. Trudy VNIIGI no.28:148-149 '60. (MIRA 14:4)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.  
(Oil reservoir engineering)



STEPIN, I.G.; YUDIN, G.M.

Additional prospecting for oil layers by means of hydrodynamic studies (hydrogeological prospecting). Geol.nefti i gaza 6 no.3:48-49 Mr '62. (MIRA 15:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy neftegazovyy institut.  
(Water, Underground) (Prospecting)

STEPIN, I.G.; YUDIN, G.M.

Combined study of layer D in the Bavlly field. Neftgaz. geol.  
i geofiz. no. 5:57-62 '63. (MIRA 17:5)

1. Vsesoyuznyy neftgazovyy nauchno-issledovatel'skiy institut.

KURENKOV, O.V.; YUDIN, G.M.

Field determination of the compressibility factor of the producing  
layer of the Zhetybay field. Nauch.tekh.sbor.po do'b. nefti no.27:  
73-76 '65. (MIRA 18:9)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

OSADA, Yakov Yefimovich; SPIVAKOVSKIY, Leonid Isayevich; YAKHKIND, A.Ya., inzh., retsenzen; YUDIN, G.N., inzh.-ekonom., nauchnyy red.; BRUSHTEYN, A.I., red. izd-vâ; DOBUZHINSKAYA, L.V., tekhn. red.

[Economics of pipe production] Ekonomika trubnogo proizvodstva. Moskva, Metallurgizdat, 1963. 191 p. (MIRA 16:5)  
(Pipe mills--Management)

YUDIN, G.N.; GONCHARENKO, V.A.

Results of the operation of the interactors school for tube-mill operators. Metallurg no.2:15-17 P '56. (MIRA 9:9)

1.Nachal'nik otдела tsuda G1 vtrubostali Ministerstva chernoy metallurgii SSSR (for Yudin).2.Nachal'nik normativno-issledovatel'skoy laboratorii Zakavkazskogo metallurgicheskogo zavoda (for Goncharenko).

(Rolling (Metalwork))

YUDIN, G.N.; GUREVICH, A.M.

Technical and economic comparison of methods of making large diameter,  
electrically welded pipes. Stal' 20 no.10:928-929 O '60.

(MIRA 13:9)

(Pipe, Steel--Welding)

(Electric welding--Costs)

YUDIN, G.T.; MALOVITSKIY, Ya.P.

Prospects for oil and gas in Brazil. Geol. nefi 1 no. 3:63-70 Nr  
'57. (HLEA 10:8)  
(Brazil--Petroleum geology) (Brazil--Gas, Natural--Geology)

MALOVITSKIY, Ya.P.; YUDIN, G.T.

Discovery of a new oil- and gas-bearing province in Algeria. Geol.  
nefti 1 no.6:64-66 Je '57. (MLBA 10:8)

(Algeria--Petroleum geology)



YUDIN, G.T.

ZHDANOV, M.A.; YUDIN, G.T.

Recovery factors of gas wells. Azerb.neft.khoz. 36 no.8:18-20  
Ag '57. (MIRA 10:11)

(Gas wells)

YUDIN, G.T.

Causes of unconformity of structural plots of Miocene and lower  
Oligocene formations in the Takhta-Bezopasnoye area of Stavropol  
Territory. Gaz.prom. no.11:8-12 N '58. (MIRA 11:11)  
(Stavropol Territory--Gas, Natural--Geology)

YUDIN, G.T.; MALOVITSKIY, Ya.P.

Oil fields in the Egyptian area of the United Arab Republic. Geol.  
nafti 2 no.12:63-68 D '58. (MIRA 12:2)

1. Moskovskiy ordena Trudovogo Krasnogo Znameni naftyanyy institut.  
(Egypt—Oil fields)

ZHDANOV, M.A.; YUDIN, G.T.

Considerations on factors of gas recovery from gas and gas-oil  
fields. Trudy MHI no.22:107-114 '58. (MIRA 12:4)  
(Gas, Natural)

YUDIN, G. T., Candidate Geolog-Mineralog Sci (diss) 0-- "Geological-industrial investigation of productive gas-bearing levels of central and northern Stavropol'". Moscow, 1959. 20 pp (Min Higher Educ USSR, Moscow Order of Labor Red Banner Inst of the Petroleum-Chem and Gas Industry im I. M. Gubkin, Chair of Prospecting and Working Petroleum and Gas Deposits), 150 copies (KL, No 24, 1959, 131)

YUDIN, G.T.; SUDARIKOV, Yu.A.

Origin of the sand-silt band of the Khadum horizon in  
Stavropol Territory. Gaz.prom. 5 no.6:1-6 Je '60.  
(MIRA 13:6)

(Stavropol Territory--Silt)

IUDIN, G.T., SOSON, M.H., TER-GRIGOR'YANTS, L.S.

Facies characteristics and gas potential of the Khadun horizon  
in central Ciscaucasia. Sov. geol. 3 no.7:59-71 J1 '60.

(MIRA 13:8)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promysh-  
lennosti im. I.M. Gubkina i Stavropol'skiy filial Groznenskogo  
nauchno-issledovatel'skogo neftyanogo instituta.

(Caucasus, Northern--Gas, Natural--Geology)

SAFONTSEV, A.A., YUDIN, G.T.

Nature of the relationship between relative amplitudes of spontaneous polarization and the granulometric composition of terrigenous rocks based on the study of a series of oil and gas deposits in Stavropol Territory. Prikl. geofiz. no.26:224-229 '60.

(MIRA 13:8)

(Rocks—Electric properties)



YUDIN, G. T.

Relationship between the granulometric composition of rocks and gas yields on the one hand and the potentials of self polarization on the other (SP). Trudy MINKHIGP no.27:80-89 '60.

(MIRA 13:9)

(Stavropol Territory--Gas well logging, Electric)

KAPUSTINA, I.N.; PYLENKOV, B.N.; YUDIN, G.T.

New data on the stratigraphy of Lower and Middle Miocene sediments in Stavropol Territory. Trudy MINKHIGP no.36:92-101 '62.  
(MIRA 15:6)  
(Stavropol Territory--Geology, Stratigraphic)

MUZYCHENKO, Nina Mikhaylovna; YURKEVICH, Tat'yana Yakovlevna; BAKIROV, A.A., prof., glav.red.; RYABUKHIN, G.Ye., prof., red.; USFENSKAYA, N.Yu., prof., red.; ZHDANOV, M.A., prof., red.; DOLITSKIY, V.A., dots., red.; SPIKHINA, A.M., kand. geol. nauk, red.; YUDIN, G.T., kand. geol.-min. nauk, red.; TABASARANSKIY, Z.A., dots., red.; BAKIROV, E.A., dots., red.; BYKOV, R.I., dots., red.; FOMKIN, K.V., kand. geol.-min. nauk, red.; KNYAZEV, V.S., dots., red.; SHIROKOV, V.Ya., st. nauchn. sotr., red.; YUNGAS, S.M., ved. red.; NEVEL'SHTEYN, V.I., ved. red.

[Geological conditions and fundamental characteristics of oil and gas accumulations in the limits of the Epi-Hercynian platform in the south of the U.S.S.R.) Geologicheskie usloviya i osnovnye zakonomernosti razmeshcheniya skoplenii nefti i gaza v predelakh epigertsinskoj platformy iuga SSSR. Pod red. A.A.Bakirova. Moskva, Gostoptekhizdat. Vol.1. [Central Asia] Sredniasia Azia. 1963. 442 p. Vol.3. [Volga Valley portion of Saratov and Volgograd Provinces] Saratovsko-Volgogradskoe Povolzh'e. 1963. 153 p. (MIRA 17:4)

1. Moscow. Institut neftekhimicheskoy i gazovoy promyshlennosti.

BORISENKO, Ye.M.; PYLENKOV, B.N.; YUDIN, G.T.

Importance of the correlation of structural plans for  
prospecting methods used in the Kuma oil-bearing area.  
Neftegaz. geol. i geofiz. no.3:7-10 '65. (MIRA 18:7)

1. Stavropol'skiy filial Groznenskogo neftyanogo nauchno-is-  
sledovatel'skogo instituta i Moskovskiy ordena Trudovogo Krasnogo  
Znameni institut neftekhimicheskoy i gazovoy promyshlennosti im.  
akad. Gubkina.

CHERNYSHEV, S.M.; YUDIN, G.T.; PLOTNIKOV, M.S.; KONONOVA, I.B.

Recent data on the distribution of red-colored and magmatic rocks in the Kuma region of eastern Ciscaucasia. Izv. vys. ucheb. zav.; neft' i gaz 8 no.3:8,12 '65.

(MIRA 18:5)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akademika Gubkina i trest "Stavropol'neftegazrazvedka".

VAGIN, S.B.; GORDINSKIY, G.Ye.; GRIBOVA, Ye.A.; DUBROVSKAYA, M.A.; ZHDANOV, M.A., prof.; ZYUZINA, N.G.; KARTSEV, A.A.; KNYAZEV, V.S., dots.; LEONOVA, R.A.; POKROVSKAYA, L.V.; SUDARIKOV, Yu.A.; YUDIN, G.T., dots.; SOKOL'SKAYA, Z.V.; TOMKINA, A.V.; USPENSKAYA, N.Yu., prof.; FOMKIN, K.V., kand.geol-min.nauk; CHERNYSHEV, S.M.; YAVORCHUK, I.V.; BAKIROV, A.A., prof., red.; DEMENT'YEVA, T.A., ved. red.

[Geological conditions and basic characteristics of oil and gas accumulations in the limits of the Epi-Hercynian Platform in the south of the U.S.S.R.] Geologicheskie usloviya i osnovnye zakonomernosti razmeshcheniya skoplenii nefti i gaza v predelakh epigertsinskoj platformy iuga SSSR. Pod obshchei red. A.A.Bakirova. Moskva, Nedra. Vol.2. 1964. 306 p. (MIRA 17:12)

1. Moscow. Institut neftekhimicheskoy i gazovoy promyshlennosti.

YUDIN, I., mayor

They stand near a rocket. Voen.vest. 42 no.5:14-16 My '62.  
(MIRA 15:11)

(Rockets (Ordnance))

GOLOKOLENKO, I., polkovnik; MANT, M., podpolkovnik; FEDOSEYEV, I., polkovnik;  
ANISIMOV, V., polkovnik; YUDIN, I., mayor; SHMAGUN, V., mayor;  
MATROSOV, V., kapitan; NEVREV, I., mayor; ANDRIANOV, V., mayor

Communism will become a reality. Voen.vest. 41 no.12:8-18 D '61.  
(MIRA 15:3)

(Communist Party of the Soviet Union--Congresses)

(Russia--Armed forces--Political activity)



YUDIN, I. A.

Meteorites

Rain of stone meteorites in the Vengerovo District. Meteoritika, No. 9, 1951.

9. Monthly List of Russian Accessions, Library of Congress, June 195~~4~~<sup>5</sup>, Uncl.  
52

YUDIN, I. A.

Meteorites

New data on the rain of stone meteorites in the Kunashak district. Meteoritika, No. 9, 1951.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.  
52

YUDIN, I. A.

Meteorites

Mineralogical and chemical investigation of the Kuna-shak stone meteorite. Meteoritika  
No. 10, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

YUDIN, I. A.

Meteorites

Work of the Ural Commission on meteorites during 1950. Meteoritika No. 10, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

YUDIN, I. A.

Vengerovo District - Meteorites

Vengerovo stone meteorite shower. Meteoritika No. 10, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1953. UNCLASSIFIED.

YUDIN, I.A.

Mineralogical composition of the stone meteorite of Vengerovo. Doklady  
Akad. Nauk S.S.S.R. 84, 123-5 '52. (MLRA 5:6)  
(GA 47 no.21:11096 '53)

YUDIN, I. A.

Mineralogicochemical Investigation of the Stone Meteorite of Vengerovo  
Meteoritika, No 11, 1954, pp 89-100

The author describes the stone meteorite which fell 11 October 1950 in Vengerovskiy Rayon of Novosibirskaya Oblast during a stone rain (four pieces were found). The biggest piece of the meteorite weighs about 10 kilograms and is covered with a black fused crust. In structure it is chondrite. (RZhGeol, No 3, 1955)

SO: Sum. No. 639, 2 Sep 55

Statistical and Economic Data

1970-1971

The following table shows the  
annual growth rate of the  
GDP in the Soviet Union  
from 1960 to 1970. The  
growth rate was 10.5% in  
1960, 10.0% in 1961, 9.5%  
in 1962, 9.0% in 1963, 8.5%  
in 1964, 8.0% in 1965, 7.5%  
in 1966, 7.0% in 1967, 6.5%  
in 1968, 6.0% in 1969, and  
5.5% in 1970. The average  
growth rate for the period  
1960-1970 was 8.5%.



YUDIN, I.A.

YUDIN, I.A.

Meteorites in the collection of the Ural Geological Museum of  
Vakhrushev Mining Institute at Sverdlovsk. Meteoritika no.12:  
122-123 '55. (MIRA 8:10)

(Sverdlovsk--Meteorites)

YUDIN, I.A.

Mineragraphic study of the Pervomayskoye stone meteorite. Meteoritika  
no.13:133-142 '55. (MIRA 9:2)  
(Meteorites) (Mineralogy, Determinative)

YUDIN, I.A.

Molten crust of the Kunashak stone meteorite. Meteoritika no.13:  
143-146 '55. (MIRA 9:2)  
(Kunashak--Meteorites)

MAKHUTIN, S.A.; YUDIN, I.A.

Museum of the Ural Mountains. Priroda 45 no.3:69-73 Mr '56.  
(Sverdlovsk--Mineralogical museums) (MLRA 9:7)

YUDIN, I.A.

Some mineral meteorites. Zap.Vses.min.ob-va 85 no.3:403-406 '56.  
(MLRA 9:11)

1. Sverdlovskiy gornyy institut imeni V.V.Vakhrusheva, Ural'skiy  
geologicheskii muzey, Sverdlovsk.  
(Meteorites)

YUDIN, I.A.; GAL'PERIN, I.A.

Flights of bolides. Priroda 45 no.10:111-112 0 '56. (MLRA 9:11)

1. Ural'skaya komissiya po meteoritam (for Yudin). 2. Gidrometeorologicheskaya stantsiya "Kuygan", Alma-Atinskaya oblast'.
- (Meteors)

YUDIN, I.A.; SHUR, A.S.

Examining ultra- and microporesities of some specimens of stone  
meteorites. Meteoritika no.14:30-37 '56. (MIRA 10:1)  
(Meteorites)

YUDIN, I.I.

Mineralogical and structural characteristics of the Savriukovo stone  
meteorite. Meteoritika no.14:101-109 '56. (MIRA 10:1)  
(Meteorites)



YUDIN, I. A.

YUDIN, I. A. "Opaque Minerals and the Structural Features of Certain Stone Meteorites." Min Higher Education USSR. Ural State U izsni A. M. Gor'kiy. Sverdlovsk, 1956. (Dissertation for the Degree of Candidate in Geologicomineralogical Science)

So: Knizhnaya letopis', No. 19, 1956.

15-1957-3-3179  
Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3,  
p 107 (USSR)

AUTHOR: Yudin, I. A.

TITLE: Notes on the Mineralogy of Meteorites (Zametki o  
mineralogii meteoritov)

PERIODICAL: Tr. Sverd. gorn. in-ta, 1956, Nr 26, pp 133-137

ABSTRACT: Until recently ilmenite had not been recognized in  
meteorites of the USSR. The author discovered grains  
of ilmenite (hundredths, occasionally tenths of a  
millimeter across) in polished sections of the chon-  
drites of Vengerovo and Sevryukovo. Ilmenite consti-  
tutes approximately 0.4%, by volume, of the achondrite  
of Yurtuk. This meteorite contains 0.36%  $TiO_2$  and  
0.39%  $Cr_2O_3$ . In several segregations the ilmenite  
has inclusions of nickeliferous iron and troilite.  
Locally the ilmenite forms tabular twins in two inter-  
secting systems. Limonitized nickeliferous iron and

Card 1/2

USSR/ Cosmochemistry. Geochemistry. Hydrochemistry

D.

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11484

Author : Yudin I.A., Shur A.S.

Inst : Sverdlovsk Mining institute

Title : On Porosity of Stony Meteorites

Orig Pub : Tr. Sverdl. gorn. in-ta, No 26, 137-143 1956

Abstract : Presented are the results of investigations of ultra- and microporosity of 6 grey and black stony meteorites which had fallen at different times within the territory of USSR. In both varieties predominate ultra-pores with an effective radius of  $10 \cdot 10^{-7}$  cm. Total amount of pores is greater in grey meteorites than in black ones, in which there is a tendency to pores of larger size. Black meteorites were formed as a result of thermal metamorphism in individual localized areas and streaks, Black color is apparently due to presence of finely divided minerals of nickel-containing iron, troilite and loelite.

YUDIN, I. A.

15-1957-7-9123

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7,  
p 43 (USSR)

AUTHOR: Yudin, I. A.

TITLE: Fossil Animal Bones in the Vicinity of Sverdlovsk  
(Kosti iskopayemykh zhivotnykh v okrestnostyakh  
Sverdlovskaya)

PERIODICAL: Tr. Sverdl. gorn. in-ta, 1956, vol 26, pp 143-145

ABSTRACT: In 1952, during an excavation of clays in the river  
terraces on the left bank of the Petrushikha River  
near Sverdlovsk, a large collection of fossil animal  
bones was found at depths up to 20 m. Bones of the  
mammoth Elephas primigenius are most abundant (tusks  
and vertebrae). It is suggested that the bones occur  
in secondary deposits which were transported by  
streams. The discovery is of considerable interest  
for the region.

Card 1/1

A. M. Zhirmunskiy

15-57-4-4632  
Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,  
p 93 (USSR)

AUTHORS: Podnogin, A. K. Yudin, I. A.

TITLE: Stilbite and Calcite From the Shartash Granite Mass  
(Desmin i kal'tsite s Shartashskogo granitnogo massiva)

PERIODICAL: Tr. Sverdl. gorn. in-ta, 1956, Nr 26, pp 145-146.

ABSTRACT:

Stilbite has been discovered in pegmatite veins (15 cm to 20 cm thick) that are exposed on the floor of a granite quarry. In one area the veins contain calcite with the stilbite. The stilbite forms monomineralic radiating aggregates 10 cm by 8 cm. The stilbite is yellowish brown. A sheaf-like structure of the mineral aggregate was observed under the microscope. The mineral has perfect cleavage parallel to (010). The elongation is negative and the extinction angle,  $c$  against  $N_p$ , is 80.  $N_g = 1.501$ ,  $N_p = 1.492$ ;  $N_g - N_p = 0.009$ . The calcite produces monomineralic aggregates measuring several centimeters across. This mineral

Card 1/2

YUDIN, I. A.

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 2, 15-57-2-1224  
p 5 (USSR)

AUTHORS: Yudin, I. A., Vetlugin, L. G.

TITLE: Additions to the Exhibits of the Ural Geological Museum  
(Novyye popolneniya eksponatov Ural'skogo geologicheskogo muzeya)

PERIODICAL: Tr. Sverdl. gorn. in-ta, 1956, Nr 26, pp 146-153

ABSTRACT: The summer of 1955 represents the 18th year of existence of the Ural Geological Museum, which is one of the largest in our country. It contains about 25 000 specimens representing minerals, ores, rocks and fossils of the Ural district. In recent years the museum obtained over 1 500 new specimens, many of which are rare and extremely interesting. The article contains a tabular list of new mineral specimens.

Card 1/1

G. I. D.



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APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963110003-7"

YUDIN, I. A.

25-1-6/48

**AUTHOR:** Yudin, I.A., Director of the Ural Geological Museum

**TITLE:** Treasure House of the Riches of the Urals (Sokrovishchnitsa Ural'skikh bogatstv)

**PERIODICAL:** Nauka i Zhizn', 1958, # 1, p 16 (USSR)

**ABSTRACT:** The Ural Geological Museum in Sverdlovsk gives a good impression of the multitude of mineral wealth to be found in the Urals - where there are more than 12,000 useful deposits of about 900 different minerals. The Museum has on display 23,000 exhibits illustrating the diversity and abundance of mineral resources in the Urals.

**ASSOCIATION:** Ural Geological Museum (Ural'skiy geologicheskii musey)

**AVAILAVLE:** Library of Congress

Card 1/1

KOLOMENSKIY, V.D.; YUDIN, I.A.

Mineral composition of the skin of the Sikhote-Alin meteorite  
and of the meteorite and meteor dust. Meteoritika no.16:59-66  
'58.

(MIRA 11:8)

(Sikhote-Alin Range--Meteorites)

YUDIN, I.A.

Opaque minerals in stone meteorites. Meteoritika no.16:78-104 '58.  
(MIRA 11:8)  
(Meteorites)

YUDIN, I.A.

Fireballs in the Urals. Meteoritika no.16:140-142 '58.

(MIRA 11:8)

(Ural Mountain region--Meteorites)

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

AUTHOR: Yudin, I.A.

TITLE: Mineragraphic investigation of the Yurtuk meteorite

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 9, 1961, 77, abstract 9A667 ("Tr. Gornno-geol. in-ta Ural'skiy fil. AN SSSR", 1959, no. 42, 227 - 230)

TEXT: The Yurtuk meteorite which fell on April 2, 1936, was already subjected by a number of authors to chemical and petrographic investigations. The meteorite belongs to feldspar achondrites and has a clastic structure. Fragments and the main cementing mass of the meteorite consist of silicates of pyroxene, olivine, plagioclase. The author investigated opaque minerals which are represented by troilite, native iron, chromite and ilmenite. Troilite has the greatest spread in the meteorite. Its quantitative content is estimated to be 0.6% by volume. Grain sizes seldom attain tenths of millimeter. Grains are of irregular and seldom rounded shape and distributed non-uniformly in the meteorite. In some silicate fragments troilite is distributed uniformly and amounts to 15-20% by volume. The quantitative volumetric content of ilmenite attains

Card 1/2

Mineragraphic investigation of the Yurtuk meteorite

S/035/61/000/009/036/036

A001/A101

0.4-0.5%. It is detected by the following characteristics: color is brownish-grey in reflected light, birefringence is weak, strongly anisotropic. Reflection coefficient  $R \cong 17-18\%$ , hardness is high, powder is black. Diagnostic etching with standard reagents is negative. Twinning structure is characteristic. It occurs in the form of irregular grains. Ilmenite occurs often in interpenetration twins with chromite, more seldom with troilite and native iron. Grain sizes vary from a thousandth fraction of millimeter to 0.2 mm. Quantitative volumetric content of chromite attains 0.5%. Grains are usually of irregular shape, sometimes fissured. Their dimensions do not exceed  $0.85 \times 0.4$  mm. Native iron volumetric content amounts to 0.1 - 0.2%. Grains have the size of a few microns. Sometimes iron occurs in interpenetration twins with troilite. According to spectral analysis of magnetic fraction, performed by A.A. Yavnel', native iron contains nickel and cobalt.

O. Kirova

[Abstracter's note: Complete translation]

Card 2/2



18(5)

SOV/26-59-5-34/47

AUTHOR: Yudin, I.A., Candidate of Geologic-Mineralogic Sciences

TITLE: At the Ural Section of the Mineralogic Society

PERIODICAL: Priroda, 1959,<sup>48</sup> Nr 5, p 114 (USSR)

ABSTRACT: The author states that reports were made on the papers read in 1958 at the meetings of the Ural Section (established in 1949) about the rediscovery of ~~did~~ite and allophane minerals in Devonian bauxite and details of other minerals found in the Urals. Other papers were devoted to the geology and mineralogy of the ilmenite and magnetite deposits opened in 1954, and to that of iron-ore and pyrite deposits, also of precious and semi-precious stones. Member of the AS of Rumania, A. Kadarcha, reported on successes in the field of geology in his country. A.Ye. Fersman was mentioned in connection with geological research in the Urals. A report

Card 1/2

SOV/26-59-5-34/47

At the Ural Section of the Mineralogic Society

was made on the meteorite which passed over the  
Urals at 21.45 hrs on April 8th 1958 and was  
seen for a distance of 500 km.

ASSOCIATION: Ural'skoye otdeleniye Vsesoyuznogo mineralogicheskogo obshchestva (Sverdlovsk) (The Ural Section of the All-Union Mineralogical Society /Sverdlovsk)

Card 2/2

607/4297  
607/575-53

Abstracts sent daily - Contact to request more

Reprints; 60000 copies, v. 13 (K-articles; Collection of Articles, No. 13)  
 Moscow, AN SSSR, 1960. 1,200 copies printed.

**ED.: V.G. Yashchuk, Academician; Deputy Pres. of the USSR Academy of Sciences; Editor-in-Chief of "Doklady Akad. Nauk SSSR".**

**PURPOSE:** This publication is intended for astrophysicists, meteorologists, and other persons interested in the study of meteoroids.

[illegible]

classical  
concerning the distribution of gases in the atmosphere during lunar eclipses.  
References accompany individual articles.

ALICE A. THURMAN Critics in the LACONIAN and  
ROBERT E. (BUTLER, Edgaria) The Origins of Asteroids and Meteorites

Forbster, G.S.	Study of the Composition of Fossiles. 2. Molasses	35
Forbster, G.S.	Study of the Composition of Fossiles. 2. Molasses	35

Pharyngitis, acute (Nares, Poland). The specimen refers to an individual  
Pharyngitis, M.I., sex T.M. Macdonald. Results of the Chemical Analysis  
from the Collection of the Acad-

23 From bits on the Physical Properties of Glucose Networks

**Abbey, L.H.** - Her name on our program was "L.H. Abbey".

77

Section 6.2. Summary Results of the Luminescence-Diagnostic Spectral Analysis (Synopsis of the Report)

Analysis of Four Carbonaceous Chondrites  
Gross, J. Y., and M. N. Gault. New Data on the Determination of the

1. General 2. Classification 3. Physical Properties 4. Chemical Properties 5. Uses 6. References 7. Notes 8. Appendix 9. Index 10. Summary 11. Conclusions 12. References 13. Notes 14. Appendix 15. Index 16. Summary 17. Conclusions 18. References 19. Notes 20. Appendix 21. Index 22. Summary 23. Conclusions 24. References 25. Notes 26. Appendix 27. Index 28. Summary 29. Conclusions 30. References 31. Notes 32. Appendix 33. Index 34. Summary 35. Conclusions 36. References 37. Notes 38. Appendix 39. Index 40. Summary 41. Conclusions 42. References 43. Notes 44. Appendix 45. Index 46. Summary 47. Conclusions 48. References 49. Notes 50. Appendix 51. Index 52. Summary 53. Conclusions 54. References 55. Notes 56. Appendix 57. Index 58. Summary 59. Conclusions 60. References 61. Notes 62. Appendix 63. Index 64. Summary 65. Conclusions 66. References 67. Notes 68. Appendix 69. Index 70. Summary 71. Conclusions 72. References 73. Notes 74. Appendix 75. Index 76. Summary 77. Conclusions 78. References 79. Notes 80. Appendix 81. Index 82. Summary 83. Conclusions 84. References 85. Notes 86. Appendix 87. Index 88. Summary 89. Conclusions 90. References 91. Notes 92. Appendix 93. Index 94. Summary 95. Conclusions 96. References 97. Notes 98. Appendix 99. Index 100. Summary 101. Conclusions 102. References 103. Notes 104. Appendix 105. Index 106. Summary 107. Conclusions 108. References 109. Notes 110. Appendix 111. Index 112. Summary 113. Conclusions 114. References 115. Notes 116. Appendix 117. Index 118. Summary 119. Conclusions 120. References 121. Notes 122. Appendix 123. Index 124. Summary 125. Conclusions 126. References 127. Notes 128. Appendix 129. Index 130. Summary 131. Conclusions 132. References 133. Notes 134. Appendix 135. Index 136. Summary 137. Conclusions 138. References 139. Notes 140. Appendix 141. Index 142. Summary 143. Conclusions 144. References 145. Notes 146. Appendix 147. Index 148. Summary 149. Conclusions 150. References 151. Notes 152. Appendix 153. Index 154. Summary 155. Conclusions 156. References 157. Notes 158. Appendix 159. Index 160. Summary 161. Conclusions 162. References 163. Notes 164. Appendix 165. Index 166. Summary 167. Conclusions 168. References 169. Notes 170. Appendix 171. Index 172. Summary 173. Conclusions 174. References 175. Notes 176. Appendix 177. Index 178. Summary 179. Conclusions 180. References 181. Notes 182. Appendix 183. Index 184. Summary 185. Conclusions 186. References 187. Notes 188. Appendix 189. Index 190. Summary 191. Conclusions 192. References 193. Notes 194. Appendix 195. Index 196. Summary 197. Conclusions 198. References 199. Notes 200. Appendix 201. Index 202. Summary 203. Conclusions 204. References 205. Notes 206. Appendix 207. Index 208. Summary 209. Conclusions 210. References 211. Notes 212. Appendix 213. Index 214. Summary 215. Conclusions 216. References 217. Notes 218. Appendix 219. Index 220. Summary 221. Conclusions 222. References 223. Notes 224. Appendix 225. Index 226. Summary 227. Conclusions 228. References 229. Notes 230. Appendix 231. Index 232. Summary 233. Conclusions 234. References 235. Notes 236. Appendix 237. Index 238. Summary 239. Conclusions 240. References 241. Notes 242. Appendix 243. Index 244. Summary 245. Conclusions 246. References 247. Notes 248. Appendix 249. Index 250. Summary 251. Conclusions 252. References 253. Notes 254. Appendix 255. Index 256. Summary 257. Conclusions 258. References 259. Notes 260. Appendix 261. Index 262. Summary 263. Conclusions 264. References 265. Notes 266. Appendix 267. Index 268. Summary 269. Conclusions 270. References 271. Notes 272. Appendix 273. Index 274. Summary 275. Conclusions 276. References 277. Notes 278. Appendix 279. Index 280. Summary 281. Conclusions 282. References 283. Notes 284. Appendix 285. Index 286. Summary 287. Conclusions 288. References 289. Notes 290. Appendix 291. Index 292. Summary 293. Conclusions 294. References 295. Notes 296. Appendix 297. Index 298. Summary 299. Conclusions 300. References 301. Notes 302. Appendix 303. Index 304. Summary 305. Conclusions 306. References 307. Notes 308. Appendix 309. Index 310. Summary 311. Conclusions 312. References 313. Notes 314. Appendix 315. Index 316. Summary 317. Conclusions 318. References 319. Notes 320. Appendix 321. Index 322. Summary 323. Conclusions 324. References 325. Notes 326. Appendix 327. Index 328. Summary 329. Conclusions 330. References 331. Notes 332. Appendix 333. Index 334. Summary 335. Conclusions 336. References 337. Notes 338. Appendix 339. Index 340. Summary 341. Con

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Vol. 10, 1001-1004 (1972)  
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On a large scale, the products of cosmic radiation in the  
 earth, in the atmosphere, and in the sea, are the  
 various isotopes of the elements, and the various  
 types of radiation, and the various types of  
 particles, and the various types of energy.

**Inter-Kinney Records**  
Piotrowski, Jerry (Warner, Poland). Meteorite Zab Rusa

Prater, T.T., and T.A. Chappin, The Meteoric Dust in Dallas  
Texas, 1946

**Field Study. Flare of Meteorite Dust in the Area of the Dunsmuir Stone Meteorite Shower**

Continental Exposition on Meteoritics in the Museum  
of Earth Sciences at Moscow State University

# 7.4. Investigation of the Nikol'skaya Stone Monuments. 197

YUDIN, I.A., kand.geol.-mineral.nauk (Sverdlovsk)

Large mineral crystals. Priroda 49 no.10:92-94 0 '60.

(MIRA 13:10)

(Sverdlovsk--Crystals)

YUDIN, I.A.; OBOTNIN, N.F.

Mineralographic and X-ray diffraction examination of carbonaceous  
chondrites found in Migiya, Staroe Boriskino and Groznaya.

Meteoritika no.20:163-170 '61.

(MIRA 14:5)

(Meteorites) (Electron diffraction examination)

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A large bolide in the trans-Ural region. Priroda 50 no.12:111  
D '61. (MIRA 14:12)

1. Ural'skaya komissiya po meteoritam, Sverdlovsk.  
(Meteors)

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Chromite eskolaite stone in glass. Stok. i ker. 20 no.9:  
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1. Ural'skiy politekhnicheskii institut imeni Kirova.

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