

ACC NR: AP6002803

(N)

SOURCE CODE: UR/0237/60/000/002/0032/0036

AUTHOR: Koshur, L. T.; Sintsova, I. T.

ORG: none

TITLE: Study of the problem of stabilization of zirconium dioxide

SOURCE: Optiko-mekhanicheskaya promyshlennost', no. 2, 1960, 32-36

TOPIC TAGS: zirconium dioxide, zirconium compound, refractory compound, refractory product

ABSTRACT: Because of its chemical and thermal stability, density, and strength at high temperatures, zirconium dioxide is of interest in the development of highly refractory materials applicable for the melting of glass batches at high temperatures. The authors established the effect of stabilizing additives, firing temperature, and holding period on the formation of stable solid solutions of  $ZrO_2$ . Two batches of commercial-grade  $ZrO_2$  were used as raw material. It was found that CaO and MgO could be used as stabilizing additives to promote transition from the initial, thermally unstable monoclinic  $ZrO_2$  to the thermally stable cubic modification, optimum amounts of the additives being 10 and 14 mol.%, respectively. The degree of stabilization was

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checked by means of chemical phase analysis and x-ray diffraction analysis, as well as visually. It was found that the best method of stabilizing is by sintering in an electric arc furnace at temperatures of not less than 1700°C and preferably above 2000°C. The pressure employed in compacting the specimens should not be less than 500 kg/cm<sup>2</sup>.

SUB CODE: 07, // SUBM DATE: 14 Jul 59 / ORIG REF: 004 / OTH REF: 005

Card 2/2

AVGUSTINIK, A. I.; SINTSOVA, I. T.

"Investigation of processes preceding crystallization of glasses."

report submitted for 4th All-Union Conf on Structure of Glass, Leningrad,  
16-21 Mar 64.

Inst Chemical Technology

S/0153/64/007/001/0101/0105

ACCESSION NR: AP4037231

AUTHOR: Avgustinik, A. I.; Sintsova, I. T.; Yudin, D. M.

TITLE: The precrystallization period in glasses of the K sub 2 O SiO sub 2 system

SOURCE: Ivuz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 1, 1964, 101-105

TOPIC TAGS: glass, crystallization, precrystallization, K sub 2 O SiO sub 2 system, prenucleation group, rate, formation, K sub 2 O.2SiO sub 2, IR analysis, EPR analysis, quartz bond rupture, disilicate bond formation, microhardness, modulus, shear, sonic rate, glass strength, amorphous glass, crystalline glass, internal thermal stress

ABSTRACT: This study was conducted to explain the effect of the crystallizability of a glass on the rate and degree of prenucleation group (p-group) formation. Two glasses of the  $K_2O-SiO_2$  system were examined: A, containing 33.4 mol%  $K_2O$ , 66.6  $SiO_2$ , readily crystallizing as  $K_2O.2SiO_2$ , and B, containing 19  $K_2O$  and 81.0  $SiO_2$ , having the least tendency to crystallize and approximating the eutectic between  $K_2O.4SiO_2$  and  $SiO_2$ . In the binary glass  $K_2O.SiO_2$  changing the cooling causes a change in the fine structure as evidenced by IR absorption and electron paramagnetic resonance

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spectra: the increase in intensity at  $980\text{ cm}^{-1}$  and shift toward the shorter wave length indicates molecular vibrations in the formed groups; the resonance lines indicate rupture of quartz bonds and disappearance of high silica content with simultaneous increase in the number and strength of the disilicate bond. As the holding temperature is reduced and as holding time is increased, the microhardness, modulus of shear, and sonic rate are increased in glass A. This increased strength results from a gradual transition from the amorphous to the more regular and oriented structure. The composition and structure of the p-groups formed approximate those of the crystalline phase formed by homogeneous crystallization. In the non-crystalline glass B no change was noticed in the IR spectra even after holding at  $1100\text{C}$  for 26 hours. This further confirms that the rate of the p-groups formation determines the ability of a glass to crystallize. The decrease in microhardness upon prolonged annealing in this glass B is attributed to relieving the internal thermal stresses. "Graduate L. G. Lazarevich participated in the work." Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Leningradskiy tekhnologicheskij institut im. Lensovyeta Kafedra tekhnologii keramicheskikh proizvodstv (Leningrad Technological Institute, Branch of Ceramic Industries)

Card

2/3

ACCESSION NR: AP4037231

SUBMITTED: 24Sep63

SUB CODE: MT

NO REF SOV: 008

ENCL: 00

OTHER: 001

Card

3/3

ACCESSION.NR: AP4041682

S/0153/64/007/002/0274/0279

AUTHOR: Avgustinik, A. I., Sintsova, I. T.

TITLE: Infra-red spectra and mechanical properties of glasses of the K sub 2 O-SiO sub 2 system upon partial substitution of K sub 2 O by CaO, MgO and Al sub 2 O sub 3

SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 2, 1964, 274-279.

TOPIC TAGS: K sub 2 O SiO sub 2 system, IR spectra, mechanical property, porcelain type glass, SiO sub 2 K sub 2 O CaO system, SiO sub 2 K sub 2 O MgO system, SiO sub 2 K sub 2 O Al sub 2 O sub 3 system, spectral shift, mechanical strength, modulus of elasticity, microhardness, sound transmission

ABSTRACT: A study of porcelain type glass and experimentation with glass containing 73 wt.% SiO<sub>2</sub> and 26.9 wt.% K<sub>2</sub>O showed that partial replacement of the K<sub>2</sub>O by CaO and MgO causes a shift of the IR absorption bands (measured in the 700-1200 cm<sup>-1</sup> region) at 1110 cm<sup>-1</sup> in the long wave portion of the spectrum. The MgO caused a greater

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ACCESSION NR: AP4041682

shift of the silica absorption band than did the same concentration of CaO. The greatest shift of  $100 \text{ cm}^{-1}$  was produced by the simultaneous presence of 2.8-6 wt.% of CaO and MgO. Addition of 3.3-8.4 wt.%  $\text{Al}_2\text{O}_3$  removed the long wave shift in these glasses. The mechanical strength of glass was increased by partially replacing the  $\text{K}_2\text{O}$  by CaO and MgO, CaO giving the stronger glass. The addition of  $\text{Al}_2\text{O}_3$  gave the strongest glass, the highest values for the modulus of  $2^3$  elasticity, microhardness and sound transmission rate. "Graduate L. G. Lazarevich participated in the work." Orig. art. has: 2 tables and 2 figures.

ASSOCIATION: Leningradskiy tekhnologicheskii institut im. Lensovyeta  
Kafedra tekhnologii keramicheskikh proizvodstv (Leningrad Techno-  
logical Institute, Department of Ceramic Production Technology)

SUBMITTED: 24Sep63

ENCL: 00

SUB CODE: MT, GP

NR REF SOV: 006

OTHER: 003

Card 2/2



AVGUSTENIK, A. I.; SINTSOVA, I. T.

"On a study of crystal-glass ceramics."

paper submitted for 3rd Joint Meeting, Netherlands Ceramic Society and the British Ceramic Society, Bristol, 5-8 July 1965.

Institut Khimii Silikatov, Akademii Nauk SSSR, Leningrad.

KORESHKOVA, G.N.; MIKHOLAP, O.N.; SINTSOVA, L.Ya.

Microbiological method of controlling water voles. Zashch. rast.  
ot vred. i bol. 9 no.1:25-26 '64. (MIRA 17:4)

SINTSOVA, L. YA.

USSR/Medicine - Extermination of Rats

Sep 52

"Results of Bacteriological Method of Deratization in Some Districts of Leningrad,"  
M. I. Prokhorov, V. T. Bobovich, L. Ya. Sintsova, A. D. Kosinskaya, All-Union Inst  
of Agr Microbiol

"Veterinariya," Vol XXIX, No 9, pp 45-47

Bacteriological deratization, conducted in the fall of 1948, was effective in majority of cases. Rodents were exterminated without endangering either humans or domestic animals. Cultures of bacteriologist Danich, which were prepd by the Inst of Agr Microbiol and which proved fatal to 80% - 100% of exptl gray rats within 4-8 days, was used. The bacteriological deratization embraced a large area and a study of its effectiveness began 3 days after dissemination of bait. Reasons why 100% satisfactory results were not obtained in a few cases may be explained by low temp at the time the work was carried out, poor organization and lack of coordinated effort.

225T25

SINTSOVA. L. Ya.

SINTSOVA. L.Ya.; "A dry preparation of bacteria on a fibrin medium for combatting rodents resembling mice." Min Higher Education USSR. Leningrad Veterinary Inst. Leningrad, 1956.  
(Dissertation for the degree of Candidate in Biological Sciences).

SO: Knizhnaya Letopis', No 23, 1956

KANDYBIN, N.V.; PROKHOROV, M.I.; YEGOROVA, L.V.; SINTSOVA, L.Ya.; BOBOVICH,  
V.T.; SANDYLOVA, M.Ye.

Use of dry bacterial preparations in the control of rodents in  
Leningrad Province. Trudy Vses. inst. sel'khoz. mikrobiol. no.14:  
344-352 '58. (MIRA 15:4)  
(Leningrad Province--Rodentia--Biological control)

SINTSOVA, L.Ya.

Hydrolysate of meat-bone meal and fibrin as a culture medium for  
bacteria used in the control of murine rodents. Trudy Vses. inst.  
sel'khoz. mikrobiol. 1f:229-235 '60. (MIRA 13:9)  
(Rodent baits and repellents)

YEVLAKHOVA, A.A.; SINTSOVA, L.Ya.

Production of dry preparations from sporeless entomopathogenic bacteria  
on solid media of animal origin. Trudy Vses. inst. sel'khoz. mikrobiol.  
16:236-242 '60. (MIRA 13:9)

(Insects, Injurious and beneficial--Biological control)  
(Bacteria, Pathogenic)

SINTSOV, V.N.

Slag as fertilizer. Zemledelie 23 no.6:79-80 Je '61. (MIRA 14:6)

1. Instruktor sel'khozotdela Sverdlovskogo oblastnogo komiteta  
Kommunisticheskoy partii Sovetskogo Soyuza.  
(Slag)



KUZENKO, Ye.; SINTSOVA, M.

Autolysis method for obtaining gastric juices on a production line.  
Mias.ind. SSSR 33 no.3:50-51 '62. (MIRA 15:7)

1. Moskovskiy myasokombinat.  
(Meat industry--By-products) (Gastric juice)

KHVESHCENKO, Ye.N.; SINTSOVA, E.V.; PADAIKO, Z.F.

Case of isolation of Listerella in Voroshilov. Izv. Irk.gos.  
nauch.-issl.protivochem.inst. 14:28-30 '57. (MIRA 13:7)  
(RODENTS AS CARRIERS OF DISEASE) (VOROSHILOV--LISTERELLA)

25(2)

SOV/32-25-5-50/56

AUTHOR:

Sintsova, N. Ya.

TITLE:

Spring Dynamometer for Measuring the Contact Pressure  
(Pruzhinny izmeritel' dlya izmereniya kontaktnogo davleniya)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 5, pp 632-633 (USSR)

ABSTRACT:

The assembler N. N. Veselov participated in the manufacture of the dynamometer. A dynamometer for low pressure with a scale for 10-20 g and a reading accuracy of  $\pm 0.05$  g was constructed for determining the contact pressure of springs which are stressed by bending. The measuring device suggested is used in the new system of automatic telephone units for the determination of the contact pressure of springs of commutation mechanisms. In principle, the device is a spiral spring which is inside a drum. The drum and the spring were taken from the clock mechanism KCh-43. The measuring principle is based on the release of the spring from a contact band which is recorded by the neon tube MN-5 whereby an electric chain: contact band - sample - pilot lamp is formed. There is 1 figure.

ASSOCIATION:

Nauchno-issledovatel'skiy institut gorodskoy i sel'skoy telefonnoy svyazi (Scientific Research Institute of Urban and Rural Telephone Connections)

Card 1/1

SIMTSOVA, N.Ya.; KOKHANOVSKIY, G.A.

method for investigating the relaxation strength of thin wire  
samples. Zav.lab. 25 no.7:867-869 '59. (MIRA 12:10)

1. Nauchno-issledovatel'skiy institut gorodskoy i sel'skoy  
telefonnoy svyazi Ministerstva svyazi SSSR.  
(Wire--Testing) (Strains and stresses)

BIBIKOVA, V.A.; VOLOKHOV, V.A.; SINTSOVA, V.I.

Possible epizootologic role of bird fleas. Med.paraz. i paras.bol.  
25 no.2:160-162 Ap-Je '56. (MIRA 9:8)

1. Iz Sredneaziatskogo nauchno-issledovatel'skogo protivechumnogo  
insituta.

(PLAS

of birds, transmission of plague in rodents)

(PLAGUES, transmission

by bird fleas in rodents)

SINUNOV, N. S.

AID P - 1453

**Subject** : USSR/Electricity

**Card 1/2** Pub. 27 - 4/36

**Authors** : Sinunov, N. S., Doc. of Tech., Prof., and  
Urmanov, R. N., Kand. of Tech. Sci.

**Title** : Fundamental relationships in a three-phase welding arc

**Periodical** : Elektrichestvo, 2, 18-22, F 1955

**Abstract** : In their investigation of the three-phase welding arc, the authors demonstrate a possibility of replacing actual non-sinusoidal currents and voltages in the arcs with equivalent sinusoids, which permits calculating capacities of separate arcs and of the total three-phase arc. The authors present corresponding formulas empirically proved, and an equivalent vectorial diagram. They find a relationship between the arc capacity and the phase angle between currents in the electrodes and voltages in the arcs. This leads them to find the distribution of heat between separate

AID P - 1453

: Elektrichestvo, 2, 18-22, F 1955

Card 2/2 Pub. 27 - 4/36

arcs. Five diagrams, 5 Russian references (1948-1953)

Institution: Ural Politechnical Institute im. Kirov

Submitted : Je 21, 1954

MIKHAYLA, M.; SINUSHAS, A.; BEL'SKIS, V., mekhanik; BAL'TRUSHAYTENE, B., kontrol'nyy master.

Advanced methods used in manufacturing asbestos slate. Stroi.mat.  
3 no.11:14-16 N '57. (MIRA 10:12)

1.Daugelyayskiy kombinat stroitel'nykh materialov. 2. Glavnyy inzhener Daugelyayskogo kombinata stroitel'nykh materialov (for Mikhayla). 3.Nachal'nik shifernogo tsekha Daugelyayskogo kombinata stroitel'nykh materialov (for (Sinushas).  
(Daugeliali--Asbestos cement)



СИНЯГИН, А.

AID P - 414

Subject : USSR/Aeronautics

Card 1/1 Pub. 135, 10/17

Authors : Grigor'yev, N., Lt. Col. of the Engineers, and  
Sinyagin, A., Major of the Engineers

Title : Resolving capacity of a radiolocation station

Periodical : Vest. vozd. flota, 9, 52-60, S 1954

Abstract : The authors consider 1) the resolving capacity of a radio-  
location station in relation to the distance, and 2) the  
resolving capacity in relation to the angle of two points  
of location. He gives examples of the procedure for two  
airplanes. Some numerical data are given. Diagrams and  
formulae.

Institution : None

Submitted : No date

SINYAGIN, G.P.

Some stages in the development of geological prospecting organizations in Russia; 1584-1918. Trudy MGRI no.28:259-265 '55.  
(Geology--History) (Prospecting) (MLRA 8:6)

SINYAGIN, G.P.

New step in the development of higher education. Izv.vys.  
ucheb.zav.; geol.i razv. 2 no.5:3-9 My '59. (MIRA 12:12)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze.  
(Prospecting--Study and teaching)

SINYAGIN, G.P.

N.F. Pogrebov; on the 100th anniversary of his birth. Izv. vys.  
ucheb. zav.; geol. i razv. 4 no.1:127-129 Ja '61. (MIRA 14:7)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.  
(Pogrebov, Nikolai Fedorovich, 1900-1942)



PROCESSED AND PRESERVED UNIT

15

CA

The composition and some properties of the organic substance in the soils of the serozem (gray soil) zone in connection with their degree of cultivation. I. I. Sinyagin. *Trudy Kazakhstan. Nauch.-Issledovatel. Inst. Zemledeliya* 1939, 3-59; *Khim. Referat. Zhur.* 1940, No. 8, 40.— Old soils contained smaller amts. of humus and N than did virgin and lucerne soils. In old soils the ratio C:N decreased. The org. substance (investigated according to the method of Waksman and Stevens, modified by Fyurin) of all soils investigated (except meadow soils) contained excess of soil proteins over the lignin humus complex. This was especially true for light serozem soils. The lucerne soils were especially rich in proteins. The content of proteins in virgin soils was smaller and it was very small in old cotton soils. Lucerne and virgin soils contained considerably smaller amts. of the hydrolyzable forms of the org. substance and possessed higher nitrifying power. The abs. amt. of org. P was smallest in light serozem soils and highest in meadow soils. An av. of 130 kg. of P<sub>2</sub>O<sub>5</sub> per hectare was biologically fixed annually in lucerne soils. The absorption capacity of soils increased with the increase in the humus content. The contents of electrop. and electromet. gels were higher in irrigated soil than in virgin soils. The lucerne soils were slightly richer in electrop. gels than were the old soils. Soils contg. larger amts. of transformable org. substances and loosely bound org. colloids contained larger amts. of water-resistant aggregates. W. R. Henn

AS - S L A METALLURGICAL LITERATURE CLASSIFICATION

REGION: STAVROPOL

SEARCHED BY: [unclear]

INDEXED BY: [unclear]

FILED BY: [unclear]

APR 19 1964

U.S. DEPARTMENT OF COMMERCE

LIBRARY OF CONGRESS

117 AND 120 CODES      PROCESSES AND PROPERTIES INDEX      120 AND 2TH CODES

BC B-3-1

**Potassium in soils of the screen zone. I. I. Siniagin (Petrology, 1940, No. 11, 55-60).--An account is given of the different forms of K and its description and fixation in grey soils. Recent practice has shown that K fertilisers can be used with considerable effect. S. and F. (m)**

ASS-51A METALLURGICAL LITERATURE CLASSIFICATION

FROM LITERATURE      FROM DOMESTIC      FROM FOREIGN LITERATURE

117 AND 120 CODES      120 AND 2TH CODES

PROCESSES AND PROPERTIES INDEX

A1-7

BC

*Determination of the absolute age of soils. I. I. Siniogin (Compt. rend. Acad. Sci. U.R.S.S., 1963, 68, 228-236).—H<sub>2</sub>PO<sub>4</sub> assimilated by plants from the upper and subjacent horizons is fixed in the upper horizon. The slight solubility of soil phosphates and their biological fixation causes the absence of migration down the profile. Hence knowing the annual amount of phosphates accumulated in the upper horizon as a result of their transfer by plants from the upper layer and as well as the difference in the P<sub>2</sub>O<sub>5</sub> content in the upper layer and the matrix unaltered by soil formation, the age of the soil is determinable. The method is applicable if the initial bulk chemical composition of the rock from which the soil has developed is uniform to a sufficiently great depth. Erosion and deposition vitiate the method. An application to a typical serecom is reported. J. O'M-B.*

Dr. Agric. Sci.  
All-Union Sci. Res. Inst. Bee Culture, Almaty Branch

ASB-3LA METALLURGICAL LITERATURE CLASSIFICATION



SINIAGIN, I. I.

The technique of raising sugar beets Moskva, Pishche-promizdat, 1946. 32 p.

SINYAGIN, I. I.

Sinyagin, I. I. - "Basic results of experimental work on the agrotechnology of the sugar beet in the northern nonchernozem belt (1930-1945)", Trudy (Vsesoyuz. nauch.-issled. in-t sveklovich, polevodstva), Issue 2, 1949, p. 5-105.

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

SINYAGIN, I. I.

The sugar contents of garden beets (*Beta vulgaris*) which are grown on nonchernozem (black earth) soils. I. I. Sinyagin. *Sakharnaya Prom.* 23, No. 7, 34-8 (1949).  
Analyses are presented of the sugar contents of *B. vulgaris* grown in various regions of the U.S.S.R. on soils which are not of the chernozem type. The analyses show clearly that the old rule that sugar beets need chernozem soil for good results are erroneous. One may culture the beets on other soils, and with suitable addns. of P, K, and N, very good results will be obtained. Werner Jacobson

IVANYKIN, I. I.

The sugar beet, a nutritious feeding stuff. (Moskva) Moskovskii rabochii, 1950. 30 p.

DA

1. Beets and beet sugar - Russia. 2. Forage plants - Russia. I. Ivanykin, A. T., jt. au.

SINYAGIN, I.I.

[Growing good sugar beet crops in White Russia] Agrotehnika  
vysokikh uroszhaev sakharnoi svekly v Belorussii. Minsk, Gos.  
isd-vo BSSR, 1951. (MIRA 10:2)  
(White Russia--Sugar beets)

SINYACIN, I. I. AND OTHERS

Beeta and Beet Sugar

Chemical composition of the sugar beet in the non-chnoaze, *Ielt. Korm. baza.* 2 No. 10, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1952, UNCL.

SINIAGIN, I.I.

Sugarbeet in the non-chernozem area; agrotechnics and use as forage. Moskva,  
Gos. izd-vo sel'khoz. lit-ry, 1952. 107 p. (54-21346)

SB220.R9S5

1. SINYAGIN, I.I.: TROKHIMOVSKIY, V. A.
2. USSR (600)
4. Feeding and Feeding Stuffs
7. Sowing sugar beets for feed in the non-chernozem zone.  
Dost. sel'khoz. No. 2, 1952.

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



SINYAGIN, I. I., CHERNENKOV, A. D.

Beets and Beet Sugar.

Sowing sugar beets in ridge rows. Sov. agron. 10 no. 4:49-54 Ap '52.

9. Monthly List of Russian Accessions, Library of Congress, July 195~~2~~<sup>3</sup> Uncl.

SINYAGIN, I.

Beets and Beet Sugar

Scientific institutions helping farm production: Institute of Sugar Beet Culture.  
Kolkh. proizv 12 No. 1, 1952.

9. MONTHLY LIST OF RUSSIAN ACCESSIONS, Library of Congress. June 1952. Uncl.

SINYAGIN, I. I.

Light, Beets and Beet Sugar

Development of the second year sugarbeets under  
varying duration of day light. Dokl. AN SSSR  
83, No 2, 1952. Vsesoyuznyy Nauchno-Issledovatel'dkiy

Institut Sveklovichnogo Polevodstva Butovo,  
Moskovskoy OBL. recd. Dec 1951

SO: Monthly List of Russian Accessions, Library of Congress, August 1952 x1953, Uncl.

SINYAGIN, I.I., doktor sel'skokhozyaystvennykh nauk, professor.

Sugar Beet. Nauka i zhizn' 20 No.4:17-19 Ap '53.

(MLRA 6:5)

(Beets and beet sugar)

OPARIN, A.I., akademik; SINYAGIN, I.I.; MOROZOVA, N.P.

Certain characteristics in the development of the sugar beet in its third year of life. Dokl. AN SSSR 91 no.3:671-673 J1 '53. (MLBA 6:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sveklevichnogo polevodstva (for Sinyagin and Morozova). 2. Akademiya nauk SSSR (for Oparin). (Beets and beet sugar)

SINYAGIN, I. I.

Sugar beet cultivation in the non-Chernozem region Moskva, Gos. izd-vo kul'turno-prosvetitel'noi lit-ry, 1954. 7 p. (Vsesoiuznaia sel'skokhoziaistvennaia vystavka)

1. Beets and beet sugar.

СИНЯВ, И. И.

Cultivation of high yield sugar beet crops Moskva, Gos. izd-vo sel'skoz.  
lit-ry, 1954. 25 p. (V po slozh' rabotnikov pechati)

СИМБИЛИ, Г. . . .

New elements in the practices and mechanization of sugar beet cultivation. Moskva, Izdatel', 1954. 318.

(Vsesoyuznoe obshchestvo po rasprostraneniю politicheskikh i nauchnykh znaniy. Seriya, 5. no. 36) (55-16227)

3405.V892 no.36 1954



Sinyagin, I. I.  
USSR/Biology - Plant physiology

Card 1/1 Pub. 22 - 37/40

Authors : Sinyagin, I. I., and Morozova, N. P.

Title : Metabolism in blossoming and non-blossoming biennial plants

Periodical : Dok. AN SSSR 99/2, 321-324, Nov 11, 1954

Abstract : The changes occurring in the metabolism of plants during phase development under the effect of external media are discussed. These changes were revealed by comparing the photosynthesis, breathing, transpiration and other life activities of biennial plants. The results obtained for blossoming and non-blossoming biennial plants are tabulated. Eleven USSR references (1932-1952). Tables.

Institution : All-Union Scientific Research Institute of Sugar Beet Growing

Presented by: Academician A. L. Kursanov, September 16, 1954

GUREVIH, Ye.S.; RADIONOVA, T.V., redaktor; CHARYKOV, B.S., redaktor;  
SINYAGIN, I.I. redaktor.

[Plans for the development of the "Rossia" collective farm]  
O perspektivnom plane razvitiia kolkhoza "Rossia." Pod red. I.I.  
Siniagina. [Moskva] Red.-isd. otdel VASKhNIL, 1957. 229 p.

(MIRA 10:6)

1. Vsesoyuznaya Akademiya sel'skokhozyaystvennykh nauk imeni V.I.  
Lenina. 2. Iсполnyayushchiy obyazannosti akademika-sekretarya  
prezidiuma Vsesoyuznoy Akademii sel'skokhozyaystvennykh nauk  
imeni V.I. Lenina i chlen-korrespondent Akademii nauk SSSR (for  
Sinyagin).

(Collective farm)

SINYAGIN, I.I., red.; KRONGAUZ, Ye.A., red.; ZUBRILINA, Z.P., tekhn. red.

[Problems of plant feeding and the use of fertilizers; proceedings of a session of the Academy, April 2-5, 1957] Voprosy pitania rastenii i primeneniia udobrenii; materialy sessii Akademii (2-5 apreliia 1957 g.). Moskva, Gos. izd-vo sel'khoz. lit-ry. 1957. 275 p. (MIRA 11:11)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina. 2. Glavnyy uchenyy sekretar' prezidiuma Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I. Lenina, chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I. Lenina (for Sinyagin). (Fertilizers and manures)

SINYAGIN, I.I., prof. IEPESHINSKAYA, Ye.V., red.; BRUDNO, K.F., tekhn.red.

[French-Russian agricultural dictionary] Frantsuzsko-russkii sel'skokhoziaistvennyi slovar'. Moskva, Gos.izd-vo tekhniko-teoret. lit-ry, 1957. 395 p. (MIRA 11:2)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Sinyagin)  
(Agriculture--Dictionaries)  
(French language--Dictionaries--Russian)

ROSTOVTSOVA, N.F., akademik, red.; SINYAGIN, I.I., red.; MOVSIBYANTS, A.P.,  
otvetstvennyy za vyusk; PAVANER, V.I., tekhn, red.

[Methods for increasing the output of livestock products] Puti  
uvelicheniya proizvodstva produktov zhivotnovodstva. Pod red.  
N.F. Rostovtseva i I.I. Siniagina. Moskva, Gos. izd-vo sel'khoz.  
lit-ry, 1958. 461 p. (MIRA 11:10)

1. Vsesoyuznaya Akademiya sel'skokhozyaystvennykh nauk imeni V.I.  
Lenina. 2. Chlen-korrespondent Vsesoyuznoy Akademii sel'skokhozyay-  
stvennykh nauk imeni V.I. Lenina. (for Sinyagin).  
(Stock and stockbreeding)

SINYAGIN, I.I., red.; MOVSISYANTS, A.P., otv. za vypusk; NIKOLAYEVA,  
G.F., red.; PAVLOV, R.P., red.; POTOTSKAYA, N.M., tekhn.red.

[Farm management system in Novosibirsk Province; materials  
of the out-session of the Academy, July 29th-August 2d, 1958,  
in the City of Novosibirsk] O sisteme vedenia sel'skogo  
khoziaistva v Novosibirskoi oblasti; materialy vyezdnai sessii  
Akademii, 29 iulia-2 avgusta 1958 goda, g. Novosibirsk.  
Novosibirsk, Novosibirskoe knizhnoe izd-vo. Vol.1. 1958.  
416 p. (MIRA 14:4)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni  
V.I.Lenina. 2. Glavnyy uchenyy sekretar' Prezidiuma Vse-  
soyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina,  
chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh  
nauk imeni V.I.Lenina (for Sinyagin).  
(Novosibirsk Province--Agriculture)

SINYAGIN, I.I., red.

[Materials of the anniversary session dedicated to the 40th anniversary of the Great October Socialist Revolution] Materialy iubileinoi sessii, posviashchennoi 40-i godovshchine Velikoi Oktiabr'skoi sotsialisticheskoi revoliutsii. Moskva, Izd-vo M-vo sel'khoz. SSSR. 1958. 529 p. (MIRA 14:7)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina.

(Agriculture)

SINYAGIN, I.I., doktor sel'skokhozyaystvennykh nauk, red.; DMITRIYEVA, A.I., red.; YEMEL'YANOV, F.V., red.; SOKOLOV, G.N., red.; SUVALOV, I.S., red.; SHLEPANOV, V.M., red.; SHUMKOV, V.A., red.; ANTONOVA, N.M., tekhn.red.

[Papers of the anniversary session of the Lenin All-Union Academy of Agricultural Sciences dedicated to the 40th anniversary of the Great Socialist October Revolution] Materialy iubileinoi sessii Vsesoyuznoi akademii sel'skokhoziaistvennykh nauk imeni V.I.Lenina, posviashchennoi 40-i godovshchine Velikoi Oktiabr'skoi sotsialisticheskoi revoliutsii. Moskva, Izd-vo M-va sel'.khoz.SSSR, 1958. 900 p. (MIRA 13:2)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina. 2. Glavnyy uchenyy sekretar' Prezidiuma Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (VASKhNIL); chlen-korrespondent (for Sinyagin).  
(Agricultural research) (Forestry research)



SINYAGIN, I. I.

USSR/Cultivated Plants. Technical Plants. Oil and Sugar Bearing Plants. H

Abs Jour : Ref Zhur-Biol., No 15, 1958, 68305

Author : Sinyagin, I. I.

Inst :

Title : Sowing of Beets in the Hungarian People's Republic.

Orig Pub : Sakharnaya svokla, 1958, No 2, 43-45

Abstract : No abstract.

Card : 1/1

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SINYAGIN, I.I., red.; MOVSISYANI, A.P., otv. za vypusk; SHCHEGLOV, Yu.A., red.; NIKOLAYEVA, G.F., red.; LUKASHEVICH, V., tekhn.red.

[Problems of agriculture and erosion control in steppe and forest-steppe regions of the U.S.S.R.; materials of the out session of the Lenin All-Union Academy of Agricultural Sciences held in Saratov from October 7th-14th, 1958] Voprosy zemledeliia i bor'by s eroziiei pochv v stepnykh i lesostepnykh raionakh SSSR; materialy vyezdnoi sessii VASKhNIL 7-14 oktiabria 1958 goda, g. Saratov. Saratov, Saratovskoe knizhnoe izd-vo. Vol.1. 1959. 348 p. Vol.2. 513 p. (MIRA 13:2)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina. 2. Glavnyy uchenyy sekretar' prezidiuma Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I. Lenina; chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I. Lenina (for Sinyagin).  
(Agriculture) (Soil conservation)

SINYAGIN, I.I., red.; MOVSISIYANTS, A.P., otv. za vypusk; NIKOLAYEVA, O.F., red.; PAVLOV, R.P., red.; POTOTSKAYA, N.M., tekhn. red.

[Farm management system in Novosibirsk Province; materials of the outsession of the Lenin All-Union Academy of Agricultural Sciences, Novosibirsk, July 29th - August 2nd, 1958] O sisteme vedenia sel'skogo khoziaistva v Novosibirskoi oblasti; materialy vyezdnoi sessii Akademii 29 iulia - 2 avgusta 1958 goda g. Novosibirsk. Novosibirskoe knizhnoe izd-vo. Vol.3. 1959. 401 p. (MIRA 14:8)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina. 2. Glavnyy uchenyy sekretar' Prezidiuma Akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina, Chlen-korrespondent Akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Sinyagin)  
(Novosibirsk Province--Agriculture)

PEYVE, Ya.V., glav. red.; ALIYEV, G.A., akademik, red.; ABUTALYBOV, M.G., prof., red.; BERZIN, YA.M. [Berzins, J.], akademik, red.; VINOGRADOV, A.P., akademik, red.; VLASYUK, P.A., akademik, red.; VOYNAR, A.O., prof., red.; DROBKOV, A.A., prof., red.; KATALYMOV, M.V., prof., red.; KOVAL'SKIY, V.V., red.; KOVDA, V.A., red.; KEDROV-ZIKHMAN, O.K., akademik, red.; LEONOV, V.A., akademik, red.; PETERBURGSKIY, A.V., prof., red.; SINYAGIN, I.I., red.; CHERNOV, V.A., prof., red.; CHANISHVILI, Sh.F., red.; SHKOL'NIK, M.Ya., prof., red.; SHCHERBAKOV, A.P., kand. sel'khoz. nauk, red.; VENGRANOVICH, A., red.; DYMARSKAYA, O., red.; KLYAVINYA, A [Klavina, A.], tekhn. red.

[Use of trace elements in agriculture and medicine; transactions]  
 Primenenie mikroelementov v sel'skom khoziaistve i meditsine; trudy.  
 Riga, Izd-vo Akad.nauk Latviiskoi SSR, 1959. 706 p. (MIRA 14:12)

1. Vsesoyuznoye soveshchaniye po mikroelementam. 3d, Baku, 1958.
  2. Chlen-korrespondent Akademii nauk SSSR (for Peyve, Kovda). 3. AN Azerbaydzhanskoy SSR (for Aliyev). 4. AN Latviyskoy SSR (for Berzin).
  5. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Vlasyuk, Kedrov-Zikhman). 6. AN Belorusskoy SSR (for Leonov).
  7. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Sinyagin, Koval'skiy). 8. Chlen-korrespondent AN Gruzinskoy SSR (for Chanishvili).
- (Trace elements) (Biochemistry) (Agriculture)

SINYAGIN, I.I.

New contribution to the scientific and educational literature  
on soil science ("Specialized soil science" [in Polish] by  
A.Musierowicz. Reviewed by I.I.Siniagin). Pochvovedenie no.8:  
124-126 Ag '59. (MIRA 12:11)  
(Soil research) (Musierowicz, A.)

SKOROPANOV, S.G., glavnyy red.; BREZHNEV, D.D., red.; LUPINOVICH, I.S.,  
akademik, red.; SINYAGIN, I.I., red.; SOKOLOV, N.S., red.;  
KHOT'KO, A.I., kand.sel'skokhoz.nauk, red.; SHUL'GA, K.V., red.;  
SVIRIDOV, V.I., tekhn.red.

[Reclaiming bog and swampy soils of the non-Chernozem zone of the  
European U.S.S.R.; materials of the joint scientific session,  
July 8-11, 1958] Osvoenie bolotnykh i zabolochennykh pochv nechernozemnoi zony Evropeiskoi chasti SSSR; materialy ob'edinennoi nauchnoi sessii 8-11 iul'ia 1958 g. Minsk, Izd-vo Akad.sel'khoz.nauk BSSR, 1960. 258 p. (MIRA 14:4)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina. 2. Chlen-korrespondent AN BSSR (for Skoropanov).
3. Akademiya nauk BSSR i Akademiya sel'skokhozyaystvennykh nauk BSSR (for Lupinovich).  
(Reclamation of land) (Peat bogs)

SINYAGIN, I.I.

Immediate tasks in expanding and improving the use of fertilizers. Zemledelie 8 no.2:33-37 P '60.  
(MIRA 13:5)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. Lenina, direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta udobreniy i agropochvovedeniya.  
(Fertilizers and manures)

SINYAGIN, I.I., akademik, red.; BUZANOV, I.F., akademik, laureat  
Leninskoy premii, red.; MAZLUMOV, A.L., akademik, red.;  
MAYSURYAN, N.A., akademik, red.; VASILENKO, P.M., akademik,  
red.; VASILENKO, P.M., akademik, red.; MANZHELIY, I.I., red.;  
GORELIK, L.Ya., red.; ANTONOVA, N.M., tekhn. red.

[Achievements of science and advanced practices in sugar beet  
growing] Dostizhenia nauki i peredovoi opyt po sveklovodstvu.  
Moskva, Sel'khozgiz, 1961. 403 p. (MIRA 15:2)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni  
V.I.Lenina. 2. Uchenyy sekretar' seksii tekhnicheskikh kul'tur  
Otdeleniya zemledeliya Vsesoyuznoy akademii sel'skokhozyaystven-  
nykh nauk im. V.I.Lenina (for Manzheliy).  
(Sugar beet breeding)



SINYAGIN, I.I., akademik

Our tomorrow. IUn. nat. no.11:1-2 N '61. (MIRA 14:11)

1. Zamestitel' Ministra sel'skogo khozyaystva RSFSR.  
(Agriculture)

SINYAGIN, Irakliy Ivanovich, akademik; ZELENETSKAYA, L.V., red.;  
SAYTANIDI, L.D., tekhn. red.

[Theoretical errors of V.R.Vil'iams and the overcoming of  
the aftereffects of the introduction of grassland farming]  
O teoreticheskikh oshibkakh V.R.Vil'iamsa i preodolenii  
posledstviy vnedreniya travopol'noi sistemy zemledeliia;  
stenogramma lektsii. Moskva, Izd-vo M-va sel'.khoz.RSFSR,  
1962. 21 p. (MIRA 15:10)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im.  
V.I.Lenina (for Sinyagin).

(Agriculture)

SINYAGIN, Irakliy Ivanovich, akademik; SMIRNOV, Nikifor Sergeevich, kand. sel'khoz.nauk; LEONOVA, T.S., red.; ATROSHCHENKO, L.Ye., tekhn. red.

[In an important direction; ways of raising agricultural standards during the next twenty years] Na glavnom napravlenii; puti pod"ema sel'skogo khoziaistva v dvadtsatiletii. Moskva, Izd-vo "Znanie," 1962. 39 p. (Novoe v zhizni, nauke, tekhnike. V Serii: Sel'skoe khoziaistvo, no.9)  
(MIRA 15:7)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Sinyagin).

(Agriculture)

SINYAGIN, I.I.

The most important results in applying mineral fertilizers to industrial crops. Zemljiste biljka ll no.1/3:383-86 '62

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina, Moskva.

SINYAGIN, I.I., akademik

Scientifically based application of fertilizers and herbicides.  
Zemledelie 25 no.12:66-76 D '63. (MIRA 17:4)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni Lenina.

SINYAGIN, Irakliy Ivanovich; DMITRIYEVA, L.A., red.

[The meaning of chemicalization in agriculture] Chto takoe khimizatsiia sel'skogo khoziaistva. Moskva, Sovetskaia Rossiia, 1964. 37 p. (MIRA 17:5)

SINYAGIN, I.I., akademik

Fertilizers and cultivation practices. Zemledelie 26 no.9:69-72  
S '64. (MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobraniy i  
agropochvovedeniya. Deystvitel'nyy chlen Vsesoyuznoy akademii  
sel'skokhozyaystvennykh nauk imeni Lenina.

SINYAGIN, Irakliy Ivanovich, akademik; PASKHIN, N.F.; NIKONOVA, Ye.A., dots.; POZHARSKIY, V.K.; OGRYZKOV, S.Ye., kand. veter. nauk; LOZHKIN, N.I., kand. biol. nauk; MURONETS, I.I., red.; VILENSKAYA, O.V., red.-leksikograf; ARTEMOV, L.V., red.-leksikograf; VACHAYEVA, Z.P., red.-leksikograf

[German-Russian agricultural dictionary] Nemetsko-russkii sel'skokhoziaistvennyi slovar'. Moskva, Sovetskaia Entsiklopediia, 1965. 684 p. (MIRA 18:7)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Sinyagin).



SINYAGIN, I.I.

Some characteristics of the chemical composition and fertility of  
soils in Indonesia. Pochvovedenie no.3:72-81. Mr '65. (MIRA 18:6)

I. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i  
agropochvovedeniya.

SINYAGIN, I.I., akademik

Raise the level of the work of scientific institutes. *Zemledelie*  
27 no.4:3-5 Ap '65. (MIRA 18:4)

1. Vitse-prezident Vsesoyuznoy ordena Lenina akademii sel'skokhozyaystvennykh nauk imeni Lenina.

SINYAGIN, I.I.; KOREN'KOV, D.A.; CHEREMISOV, G.A.; NAYDIN, P.G.;  
BARANOV, P.A.; KARPINSKIY, N.I.; BALYABO, N.K.; MAMCHENKOV, I.P.

Isacid Nikolaevich Barsukov, d. 1965; an obituary. *Zemledelie*  
27 no.10:89 0 '65. (MIRA 18:10)

SINYAGIN, N.

Use of natural gas for cutting, welding and soldering of metals.  
Prof.-tekh.obr. 19 no.11:32 N '62. (MIRA 16:2)

1. Master proizvodstvennogo obucheniya Tekhnicheskogo  
uchilishcha No.1 g. Baku.  
(Gas welding and cutting)

SINYAGIN, Yu.A., inzh.

Experience in the use of tie pads. Put' i put.khoz. 5 no.6:34-35  
Je '61. (MIRA 14:8)

1. Stantsiya Salar, Tashkentskoy dorogi.  
(Railroads--Ties)

ANDREYEVSKIY, M.G., inzh. (Tashkent); PANCHENKO, M.Kh., inzh. (Tashkent)  
Sinyagin, Yu.A., inzh. (Tashkent)

Use of reinforced-concrete ties on the Tashkent Railroad. Zhel.  
dor. transp. 43 no. 1:51-52 Ja '61. (MIRA 14:4)  
(Railroads—Ties, Concrete)

SINYAGIN, Yu. A.

Repair of reinforced concrete ties on the track by division  
crews. Put' i put. khos. 7 no.3:24 '63. (MIRA 16:4)

1. Starshiy dorozhnyy master, stantsiya Salar, Tashkentskoy  
dorogi.

(Railroads—Ties, Concrete)

KOLESNIKOV, P.I., dotsent, kand. tekhn. nauk (Tashkent);  
SUDARUSHKIN, A.F., inzh. (Tashkent); SINYAGIN, Yu.A., inzh.  
(Tashkent)

Stabilization of tracks with reinforced concrete ties and  
gravel ballast. Put' i put. khoz. 7 no.6:6-8 '63.  
(MIRA 16:7)

(Railroads---Track) (Ballast(Railroads))



ANDREYEVSKIY, M.G., kand.tekhn.nauk; INYUTIN, I.S., dotsent, kand.tekhn.nauk;  
SINYAGIN, Yu.A., inzh.

Use of polymers in the repair of reinforced concrete ties. Put'  
put.khoz. 8 no.2:15-16 '64. (MIRA 17:3)

1. Salarskaya distantiya Sredneaziatskoy dorogi. 2. Starshiy  
dorozhnoy master Salarskoy distantsii Sredneaziatskoy dorogi (for  
Sinyagin).

SINYAGIN, Yu.A.

Defects of reinforced concrete ties and their classification.  
Put' i put.khoz. 8 no.3:25--26 '64. (MIRA 17:3)

1. Starshiy dorozhnyy master stantsii Salar, Sredneaziatskoy dorogi.

IL'IN, K.V.; ORLOV, A.K.; SINYAGIN, Yu.A.

Achievements of a collective. Put' i put, khoz. 9 no.2:8-9 '65.

(MIRA 18:7)

1. Zamestitel' nachal'nika Tashkentskoy distantsii Sredneaziatskoy dorogi (for Il'in). 2. Pomoshchnik nachal'nika Tashkentskoy distantsii Sredneaziatskoy dorogi pl kadram (for Orlov). 3. Nachal'nik uchastka puti, stantsiya Tashkent, Sredneaziatskoy dorogi (for Sinyagin).

ANDREYEVSKIY, M.G., kand. tekhn. nauk (Tashkent); INYUTIN, I.S., kand. tekhn.  
nauk (Tashkent); SINYAGIN, Yu.A.

Causes of the failure of fastening screws. Put' i put. khoz.  
9 no.10:33 '65. (MIRA 18:10)

1. Nachal'nik uchastka Tashkentakoy distantzii (for Sinyagin).

ANDREYEVSKIY, M.G., kand.tekhn.nauk (Tashkent); INYUTIN, I.S., kand.  
tekhn.nauk (Tashkent); SINYAGIN, Yu.A., inzh. (Tashkent)

New technology of tie insert repair. Put' i put.khoz. 10  
no.1:12-15 '66. (MIRA 19:1)

SINYAGINA, A.

19952 SINYAGINA, A. Sul'fitnobeikovyykley SB-1. Myas. industriya SSSR, 1949,  
No. 3, s. 88-90.

SO: LETOPIS ZHURNAL STATEY, VOL. 27, Moskva 1949.

SERDOBOL'SKIY, I.P.; SINYAGINA, M.G.

Oxidation-reduction conditions of chernozem soil aggregates. Pochvo-  
vedenie '53, No.1, 26-32. (MIRA 6:2)  
(CA 47, no.14:7142 '53)

SINYAGINA, M.G.

Base-acid conditions for the formation of soluble organic compounds of manganese. I. P. Serdobol'skii and M. G. Sinyagina. *Fizkhem* 1953, No. 8, 42-50. — By using the polarographic method, base-acid conditions were studied on the formation of sol. Mn compds. with citric, acetic, oxalic, and humic acid. At soil pH values 6.1-7.8, no sol. compds. of Mn with these acids were formed. At pH 8.0-8.5 some compds. did form. At pH 10.2 almost all of the Mn has combined with the acids. Thus, under the conditions described no Mn may move in the forms noted unless the pH is above 8.5. J. S. Joffe.



*SINYAGINA, M. G.*

USSR/Agriculture - Biology, Exchange Absorption of Phosphates by Soils

FD 286

Card 1/1

Author : Serdobol'skiy, I. P. and Sinyagina, M. G.

Title : Concerning exchange absorption of phosphates by soil

Periodical : Izv. AN SSSR. Ser. biol. 3, 113-119, May/June 1954

Abstract : P<sup>32</sup> tracer atoms were used to determine exchange of phosphates in black earth, moderately podsol earth, sierozem, and terra rossa. It was found that exchange reactions are normal for most soils; they accompany absorption reactions of phosphates by soils. Only terra rossa exhibited complete absence of exchange even when 200 milligrams of phosphate (on the basis of P<sub>2</sub>O<sub>5</sub>) was added for each 100 hectares of soil. In comparison with absorption, exchange reactions are of secondary significance: they form anywhere from 2-3% up to 20-25% of absorption of phosphates by soils. Six tables.

Institution : Soil Institute imeni V. V. Dokuchayev, Academy of Sciences USSR

Submitted : December 1, 1952

SINYAGINA, M. I.

Cand. Tech. Sci.

Dissertation: "Concerning the errors of Precise Leveling

15 Apr. 49

Moscow Inst. of Engineers of Geodesy, Aerial Photography and Cartography

SO Vecheryaya Moskva  
Sum 71

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188T31

SINYAGINA, M. I.

USSR/Geophysics - Earth's Core

Jan 51

"Experimental Study of Recent Motions of the Terrestrial Core According to Data From Reiterated Leveling. North Caucasus, Donbass, Middle Russian Plateau," Yu. A. Meshcheryakov, M. I. Sinyagina, Inst of Geog, Acad Sci USSR and Cen Res Inst of Geodesy, Aerial Photography and Mapping

"Iz Ak Nauk SSSR, Ser Geog" No 1, pp 36-45

Brief Exposition of methods and results of reiterated leveling in 1950. Concludes this method is suitable for studying recent tectonic motions in lowland and plateau regions.

188T31

SUDAKOV, S.G.; ALEKSANDROV, T.F.; BAGROV, M.A.; BULANOV, A.I.; KAMENSKAYA, M.V.;  
KUZ'MIN, B.S.; LITVINOV, B.A.; SINYAGINA, M.I.; TIMOFYEV, A.A.; ENTIN, I.I.;  
SINYAGINA, V.I.

[Instructions for class I, II, III and IV leveling] Instruktsia po  
nivelirovaniu I, II, III i IV klassov. Moskva, Izd-vo geodesicheskoi  
lit-ry, 1955. 106 p. (MLRA 9:3)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodesii i kartografii.  
(Leveling)

ZHIVAGO, A.V.; ZENIN, V.A.; KAMANIN, L.G.; MESHCHERYAKOV, Yu.A.; SINYAGINA, M.I.

Some results of the study of present-day tectonic movements in the western half of the European U.S.S.R. Izv. AN SSSR Ser. geog. no. 1:35-52 Ja-F '56. (MIRA 9:7)

1. Institut geografii AN SSSR i Tsentral'nyy nauchno-issledovatel'skiy institut geodezii, aers"yemki i kartografii.  
(Earth movements)

SINYAGINA, M.I.

Decisions of the International Geodetic Association, adopted August  
26, 1948, relative to precise leveling. Geod. i kart. no. 8:63-66 0 '56.  
(Leveling) (MLRA 10:1)

14-57-6-11811  
Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6,  
p 22 (USSR)

AUTHORS: Meshcheryakov, Yu. A., Sinyagina, M. I.

TITLE: Contemporary Movements of the Earth's Crust and Ways  
to Study Them (Sovremennyye dvizheniya zemnoy kory i  
metody ikh izucheniya)

PERIODICAL: V sb: Vopr. geografii, Moscow-Leningrad, AN SSSR,  
1956, pp 69-79

ABSTRACT: The authors present basic principles to be used in  
interpreting information obtained by repeated level  
surveys and by studies of elevations. Geological and  
geomorphological investigations were undertaken to  
clarify the degree to which geodetic bench marks on  
land and depth gauges on shores remained stationary,  
and to interpret information so acquired in the light  
of current tectonic movements. Studies conducted

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Contemporary Movements of the Earth's Crust (Cont.)

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jointly by the Geographical Institute of the AS USSR and the Central Scientific Institute of Geodesy, Aerial Photosurvey and Cartography have resulted in the preparation of a chart showing current tectonic movements in the western part of the European USSR, to the scale of 1:5 000 000; this chart is included in the paper. Approximately 20 thousand km of repeated level surveys were used in preparing the map. Absolute speeds of movement at various points averaged 2 mm to 4 mm per year, with a maximum at 7 mm per year (a  $\pm$  2 mm per year error is possible). The map shows a number of zones of contemporary uplifts and subsidences, which are mainly meridional in orientation and which show a relation to ancient structures of the Russian Platform foundation. The strongest meridional uplift--the Estonian-Moldavian--may be considered a continuation of the Baltic Shield uplift. However, numerous incongruities exist between current movements and ancient structures (the Polesye region, and others). The authors believe that the picture they have obtained can be explained by adopting the views of A. P. Karpinskiy, who defined

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SINYAGINA, M. I.

PHASE I BOOK EXPLOITATION

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Akademiya nauk SSSR. Komitet po geodezii i geofizike

Mezhdunarodnaya assotsiatsiya geodezii; tezisy dokladov na XI General'noy assambleye Mezhdunarodnogo geodezicheskogo i geofizicheskogo soyuza (The International Association of Geodesy; Abstracts of the Reports at the XI General Assembly of the International Union of Geodesy and Geophysics) Moscow, Izd-vo AN SSSR, 1957. 63 p. 1,500 copies printed.

**PURPOSE:** The purpose of this booklet is the dissemination of abstracts of the reports presented by the Soviet members of the International Association of Geodesy at the XI General Assembly of the International Union of Geodesy and Geophysics.

**COVERAGE:** This booklet, with full English translation of the Russian text, published by The National Committee for Geodesy and

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the tectonics of the Russian Platform as the interaction and superimposition of various movements of foundation blocks, which result in the wave-like motions of the Platform (alternately, in meridional and latitudinal directions). An outline map showing facies and thicknesses of alluvium deposits in the northwestern Russian Plain has been prepared to assist in establishing the effects of these movements on the erosion and deposition processes in river valleys. Areas of lower alluvial thickness are related to sections of current uplift, while areas in which the thickness is considerable are related to sections of subsidence. Variations from this norm are explained by recent changes in the nature of tectonic movements which have not yet been able to express themselves in the processes of erosion and accumulation. The data acquired by this study affirm that the interaction of endogene and exogene processes in the formation of the relief are highly complicated and cannot be fitted into a simple scheme of "depression-accumulation," and "elevation-incision." A bibliography of 13 titles is included.

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Yu. M.

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Geophysics of the Academy of Sciences of the USSR presents abstracts of reports by the Soviet members of the International Association of Geodesy at the XI General Assembly of the International Union of Geodesy and Geophysics. No personalities are mentioned. There are no references.

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CONTENTS:

Heyfets, M.Ye.

Quartz-metal Pendulum

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The quartz-metal pendulum is well suited for precision work and in gravity observations at sea. It is stable, comparatively insensitive to temperature changes and to magnetic fields and does not require an elaborate support system. Its shape, size and weight, do not differ from the Sturckrat pendulum. It consists of a fused quartz stem, invar head and a lenticularly-shaped brass bob. Each pendulum is subjected to rigorous tests for strength and temperature hysteresis; static and dynamic temperature coefficients and barometric

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coefficients after a lapse of years remain practically constant. The use of such a pendulum at first order stations, even under very adverse climatic conditions and transportation difficulties, is well justified.

Izotov, A.A. The Reference Ellipsoid and the Basic Geodetic Data Used in USSR

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The reduction of triangulation to sea level and the subsequent development of it on the surface of the geoid introduce considerable distortions into the main geodetic framework. The method of projecting triangulation directly on the surface of the reference ellipsoid developed and adapted in USSR is free from such drawbacks. Krasovskiy's ellipsoid derived from measurements in USSR, W. Europe and USA offers a close enough figure of the Earth, applicable to the continents of the Northern hemisphere only.

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