

USTIYEV, Ye. K., doktor geol. i mineral. nauk

Session of the Hungarian Geological Society. Vest. AN SSSR 35  
no.10:114 0 '65. (MIRA 18:10)

E 08039-67 EWT(1) GW

SOURCE CODE: UR/0030/63/000/005/0045/0049

ACC NR: AP7001649

AUTHOR: Ustiyev, Ye. K. (Doctor of geomineralogical science)

22

B

ORG: none

TITLE: Great program of scientific and practical work

SOURCE: AN SSSR. Vestnik, no. 5, 1966, 45-49

TOPIC TAGS: geology conference, earth crust, tectonics

ABSTRACT: The article cited below in many respects duplicating many reports which have been published on the meeting of the Earth Sciences Department of the Academy of Sciences USSR held at Khabarovsk, Magadan, Vladivostok and Yuzhno-Sakhalinsk. The program was devoted to the structure of the earth's crust in the transition zone from the Asian continent to the Pacific Ocean, characteristics of structure and history of tectonic development, principal characteristics and history of development of magmatism and metallogeny, mineral-raw material resources and their exploitation; and geographical aspects of the use of natural resources and transformation of nature. Like other reviews of this meeting, the article describes the principal emphasis at the different places of the meeting and lists the speakers and the titles or subject matter of their papers. There is only fragmentary information on the actual

Card 1/2

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ACC NR: AP7001649

content of their presentations. The author is concerned at what he feels is a major shortcoming in most of the work being done. He sees a tendency which threatens to disrupt the harmonious development of the earth sciences. Improvements in the fields of structural geology and geophysics of recent years have led, in his opinion, to an under-evaluation of the role of matter (particularly rocks) in the character and direction of geological processes. The reports at the meetings dealt almost exclusively with geostructural problems and related endo-genetic processes, with little heed of the medium in which these processes occur. He feels that only by restoring equilibrium in the development of the earth sciences, and especially encouraging all kinds of petrographic research, will it be possible to return geological knowledge to the material base from which it has temporarily departed. [JPRS: 38,230]

SUB CODE: 08 / SUBM DATE: none

Card 2/2 mc

PROCESSES AND PROPERTIES

BC A-1

Solutions of electrolytes showing no polarisation on electrolysis. V. S. FINKELSTEIN and P. Y. USMANOVA (*J. Phys. Chem. Russ.*, 1937, 9, 773-779).—The anodic and cathodic potentials of  $ICl_3$  in  $Br$ ,  $EtCO_2H$ ,  $PhNO_2$ , and  $AsCl_3$ , of  $ICl$  in  $EtCO_2H$  and  $PhNO_2$ , and of  $PCl_5$  and  $SbCl_5$  in  $Br$  do not change with the c.d. In most cases, this can be explained by the assumption that electrolysis involves an exchange of electrons between the solute and the solvent; the solvent itself acts under these conditions as a depolariser.

E. R.

DETALLOGICAL LITERATURE CLASSIFICATION

I 36271-65 FWT(m)/EPR(o)/EXT(j) Po-4/Pr-4 RM S/0286/55/000/005/0069/0070  
ACCESSION NR: AP500874

Authors: Faydel', I. Ya.; Sokolov, A. B.; Timofeyev, A. V.; Yakobson, B. V.;  
Ust'kachintsev, A. N.; Vasilov, N. B.

TITLE: A method for obtaining phenolic aldehyde pressing powders. Class 39. No.  
168873

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 69-70

TOPIC TAGS: phenolic aldehyde, pressing powder, filler, coal, ash

ABSTRACT: This paper describes a method for obtaining phenolic aldehyde  
pressing powders. The method involves the use of a phenolic aldehyde  
and a coal-based filler. The coal is used as the filler.

ASSOCIATION: none

PERMITTED: none

NUMBER OF PAGES: 1

Card 1/1

UST-KACHKINTSEY, B. F.

B. T. R.  
Vol. 3 No. 4  
Apr. 1954  
Chemistry-Physical

① 3  
4671\* Coagulation of Colloidal Solutions by Mixtures  
Containing a Potential Determining Electrolyte. (Russian.)

V. F. Ust-Kachkintsey, *Kolloidnyi Zhurnal*, v. 15, no. 5, Sept.-  
Oct. 1953, p. 394-400.

Includes graphs, table. 13 ref.

ME  
7-28-54

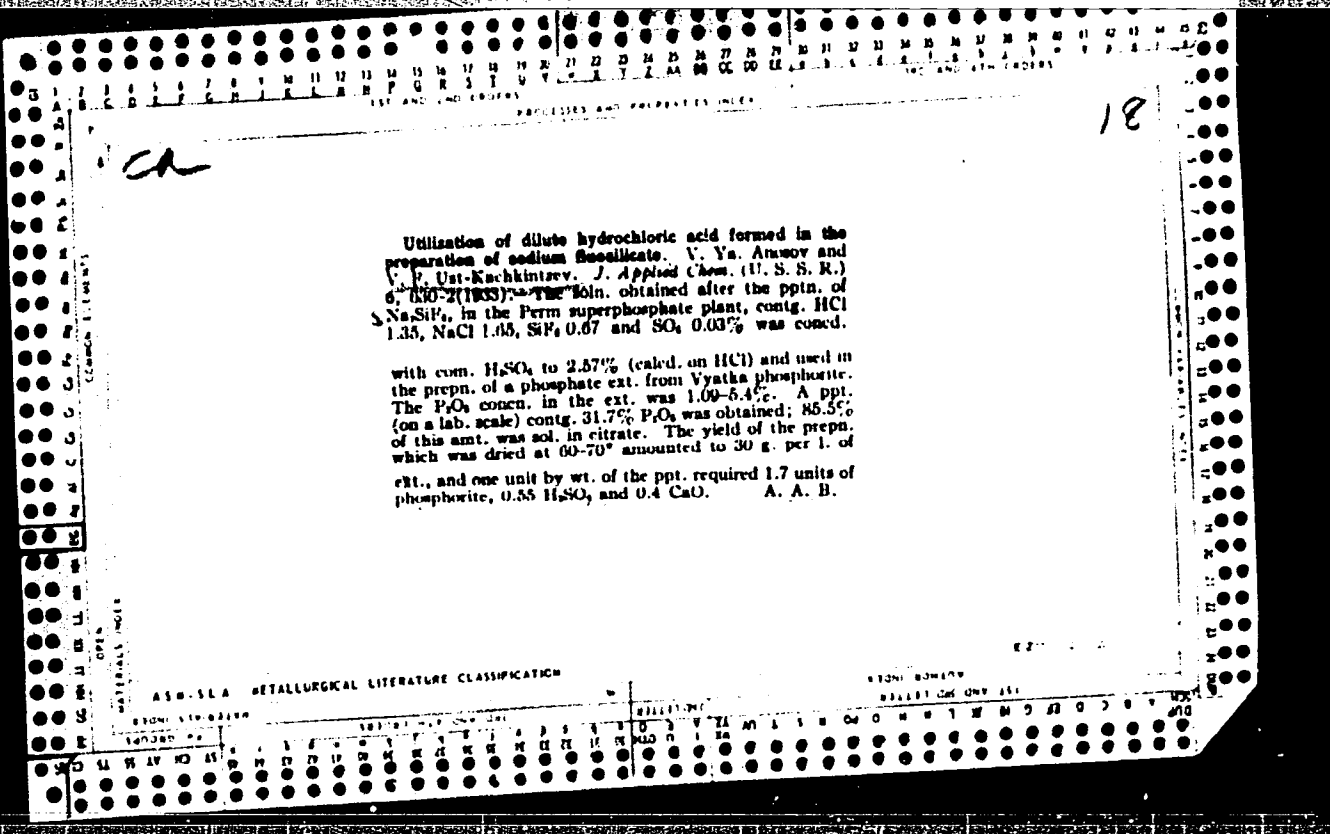
PROCESSES AND PROPERTIES INDEX

... ..

The action of dilute hydrochloric acid on phosphorites. V. Ya. Anosov and V. E. Ust-Kachintsev. *J. Applied Chem. (U. S. S. R.)* 6, 228-36 (in German 228-9) (1953).— The action of dil. HCl on apatite from Khibinsk and on phosphorites from Vyatka, Saratov, Ural, Morocco and Aktyubinsk was studied. The degree of decanpn. varies with the origin of the phosphorites. It amounts to 92.21-80.1% for a 5% HCl and 89.96-70.3% for 1% HCl.

An increase of the temp. from 18° to 100° raises the sol. by 1.6 to 22.9%. It is recommended to use an amount of HCl that would convert the total Ca present in the phosphite into CaCl<sub>2</sub>. The concn. of the P<sub>2</sub>O<sub>5</sub> in the sol. increases in proportion to the concn. of the applied acid. When HCl of a concn. up to 2.3% is used it can be partially replaced by H<sub>2</sub>SO<sub>4</sub>. With 6% H<sub>2</sub>SO<sub>4</sub>, replacement of HCl the degree of decanpn. is raised. A. A. B.

ASD 55A METALLURGICAL LITERATURE CLASSIFICATION





2

CA

PROCESSES AND PROPERTIES

Electric conductivity of the system acetic anhydride  
water. N. A. Trifonov and V. P. Kochubovskiy,  
Phys. Chem. (U. S. S. R.) 9, 1215-21(1974). Measure-  
ments were performed at 0°, 50° and 72.5°. In each case  
a max. appear at 2.5-4.5 and at 90, and a single min. at  
0 moles % of Ac<sub>2</sub>O. The temp. coeff. of cond. has one  
max. at 80 moles % water. The results indicate the formation of  
HOAc in the system. J. H. Rathmann

ASB-314 METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

2

CA

Electric conductivity of the system ethylenediamine-water. V. F. Ust-Kachkintsev. *J. Phys. Chem.* (U. S. S. R.) 8, 1391-6(1964).—The usual Kohlrausch method was used in the interval 0-80°, and the temp. coeff. of the cond. and the corrected and the mol. cond. were calcd. The isotherm of cond. at low temps. has a min. lying in the region near the ratio of the components corresponding to the dihydrate. Raising the temp. leads to deformation of the isotherm and to disappearance of the min. The isotherm of the mol. cond. at low temps. has an anomalous form. By a correct choice of electrolyte (amine) an increase of temp. tends to bring the curve of mol. cond. to the normal form.  
Eino Hanninen

ASB-55A METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

Layer formation in a two-liquid system. R. V. Mertzlin and V. P. Ust-Kachkintsev. *J. Gen. Chem. (U.S.S.R.)* 3, 771-N(1938).--From a study of the isotherms of the systems  $H_2N-H_2O$ -KCl at 0°, 10° and 15°,  $C_2H_5N-H_2O$ -KCl at 0°, 20°, 50° and 80° and  $C_3H_7N-H_2O$ -KCl at 20°, 40°, 60° and 80° it is concluded that the binary systems  $H_2N-H_2O$ ,  $C_2H_5N-H_2O$  and  $C_3H_7N-H_2O$  should have at low temp. a max. crit. temp. of layer sepn. S. L. M.

ASAC-SEA METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

PROCESSES AND PHENOMENA

en 2

A critical discussion of some experimental work on physicochemical analysis of binary systems. V. F. (S. I. Matkovskiy). *J. Gen. Chem. (U. S. S. R.)* 5, 802 (1954).—A discussion of the exper. work of Kendall, Hodge and Howland, Usanovich and of Terpugov, diagrams of compn. vs. properties, at various temps., of binary systems of the rational and irrational types. It is concluded that electrically conducting systems may not necessarily show a deviation from additivity in the measurement of other properties. In irrational systems there is displacement of max. and min. of various properties and deviation from additivity. Inflection points on curves of temp. coeff. vs. properties of irrational systems cannot serve as guides for detn. of compn. of compounds in a binary system. S. I. Matkovskiy

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

OPEN

MATERIALS INDEX

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



PROCESSED AND PROPERTY INDEX

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*ca*

Surface tension and refraction of the system ethylenediamine-water in relation to its other properties. V. F. Ist-Kochshatury. *J. Phys. Chem. (U. S. S. R.)* 6, 77-72 (1956).—The surface tension  $\sigma$  of ethylenediamine from 0° to 60° is given by the equation  $\sigma = 44.8 - 0.128t$ . For solns. of C<sub>2</sub>H<sub>4</sub>N<sub>2</sub> in H<sub>2</sub>O the function  $\gamma = d\sigma/dt$  shows a max. at 78% H<sub>2</sub>O and a min. at 25% H<sub>2</sub>O. The max. at 25 mole % amine is taken to indicate the dihydrate. The  $n_D$  as a function of the concn., also indicates only a dihydrate. Conclusion: The existence of a monohydrate of ethylenediamine can be shown only by thermal analysis and by viscosity, as a study of other properties indicates only the dihydrate. F. H. Rathman

AISI-ISA METALLURGICAL LITERATURE CLASSIFICATION

ca

2

**Homogenizing properties of binary liquid systems. I. Limited solubility in the quaternary system: water-aniline-pyridine-piperidine.** V. E. Ust-Kachintzev and R. V. Mertalin. *J. Gen. Chem. (U. S. S. R.)* 6, 15-21 (1936).--Based on general principles of physicochem. analysis the homogenizing effect of the normal binary system  $C_4H_9N-C_6H_5N$  on the mutual soly. of  $C_6H_5NH_2$  is studied at 0°, 20° and 50° for different ratios of  $H_2O$  to  $C_6H_5NH_2$  and  $C_4H_9N$  to  $C_6H_5N$ . In accord with the rule for normal systems the effect is practically additive, pure  $C_4H_9N$  being the best homogenizer,  $C_6H_5N$  the weakest and mixts. intermediate. It is concluded that the nature of the homogenizing effect (whether additive or nonadditive) may be used to characterize binary systems and *vice versa*. Tables and compn. diagrams are included. II. Limited solubility in the quaternary system: water-aniline-pyridine-acetic acid. *Ibid.* 22-23 (1936).--The homogenizing effect of the irrational system  $C_6H_5N-AcOH$  (compn. ranging from 0 to 100%  $C_6H_5N$ ) on the mutual soly. of  $C_6H_5NH_2-H_2O$  in the ratios 3:1, 1:1 and 1:3 is studied at 0° and shown to deviate noticeably from additivity. Pure  $AcOH$  is the best homogenizer, one contg. approx. 20%  $AcOH$  is the weakest

for all 3 ratios of  $C_6H_5NH_2, H_2O$ . The max. deviation from additivity also depends on the ratio of  $C_6H_5NH_2$  to  $H_2O$  and corresponds to 31, 27 and 24%, resp., for the ratios 1:3, 1:1 and 3:1. III. Limited solubility in the quaternary system: water-aniline-piperidine-acetic acid. *Ibid.* 27-31.--The homogenizing effect of the irrational system  $C_4H_9N-AcOH$  on the mutual soly. of  $H_2O-C_6H_5NH_2$  in the ratios 4:1, 6.5:3.5, 1:1 and 3.5:6.5 is measured at 0° and shown to deviate from additivity. The deviation, especially marked in the water-rich end of the system, and partly due to the formation of piperidine acetate, a poorer homogenizer than either of its components, is max. for the system:  $H_2O-C_4H_9NH_2$  (4:1)- $AcOH-C_6H_5N$  (1:1). The homogenizing effect is also a function of the  $H_2O-C_4H_9NH_2$  ratio, increasing with increase in  $C_4H_9NH_2$  concn. IV. Limited solubility in the quaternary system: water-dimethylaniline-piperidine-allyl mustard oil. *Ibid.* 32-6. In the rational system  $C_4H_9N-C_6H_5CNS$ ,  $C_4H_9N$  is the only homogenizer and mixts. contg. 50 or more mols. % of  $C_6H_5CNS$  lack homogenizing properties. Up to this point the effect is additive and independent of the ratio between  $H_2O$  and  $C_6H_5N(CH_3)_2$ . The measurements were made at 20°.

John Livak





PROCESSES AND PROPERTIES INDEX

2

CA

Layer formation in three-component systems. I. V. P. Chirkovskiy. *J. Gen. Chem. (U. S. S. R.)* 7, 2063-3 (1937).—A general discussion of the application of the method of physicochem. analysis, used in the study of binary liquid systems, to the study of triple liquid systems. II. *Ibid.* 2090-79.—Mutual soly. and layer-formation were studied in the systems: H<sub>2</sub>O-PhOH-AcOH (I), H<sub>2</sub>O-PhOH-CCl<sub>3</sub>COOH (II), H<sub>2</sub>O-PhOH-H<sub>2</sub>SO<sub>4</sub> (III), H<sub>2</sub>O-PhOH-H<sub>3</sub>PO<sub>4</sub> (IV), H<sub>2</sub>O-PhOH-(COOH)<sub>2</sub> (V) and H<sub>2</sub>O-PhOH-picric acid (VI). In system I AcOH does not form compts. with H<sub>2</sub>O or PhOH and mixes with them in all proportions. System II is similar to system I. In both cases only the 15° isotherm was investigated and both curves almost concave. Systems III, IV and V are more complicated because of the reaction between the components. The following isotherms were investigated: In system III, 15°, 100° and 180°, in system IV, 60°, 100°, 130° and 150° and in system V, 50°, 55°, 60°, 65°, 66° and 68°. Each of these 3 systems has a triple crit. point. System VI differs from all the other systems studied by the fact that it has 2 layer-forming binary systems H<sub>2</sub>O-PhOH and H<sub>2</sub>O-picric acid. The isotherms studied were at 40°, 45°, 50°, 61°, 65°, 70°, 80° and 100°. Instead of a triple crit. point a middle-like surface appears. Twenty-two references. S. L. M.

METALLURGICAL LITERATURE CLASSIFICATION

CLASSIFICATION	CLASSIFICATION	CLASSIFICATION	CLASSIFICATION
1	2	3	4
5	6	7	8
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89	90	91	92
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97	98	99	100





137 AND 138 RESEARCH PROCESSES AND PROPERTIES MODES

139 AND 140 (1971)

CA

Layer formation in three-component systems. IV. The system water-ether-acids. V. F. Ut-Kachkatsev and P. A. Khebnikov. *J. Gen. Chem. (U.S.S.R.)* 9, 1742-8 (1938); cf. *C. A.* 32, 2410. Layer formation in the system  $H_2O-Et_2O-H_2SO_4$  is studied at  $-10, 0$  and  $30^\circ$  and in  $H_2O-Et_2O-H_3PO_4$  at  $0^\circ$ . The results are very similar and indicate that the acid used makes little difference in the curves obtained. Compd. formation does not occur and a triple crit. point is impossible. V. V. F. Ut-Kachkatsev. *Ibid.* 1749-51. The system  $H_2O-PhOH-PhNHNH_2$  has a triple crit. point at  $113-14^\circ$  and 10%  $PhNHNH_2$  and 18%  $PhOH$ ; this indicates compd. formation between the org. compds. H. M. Leicester.

ASS-ILA METALLURGICAL LITERATURE CLASSIFICATION

13000 13100 13200 13300 13400 13500 13600 13700 13800 13900 14000 14100 14200 14300 14400 14500 14600 14700 14800 14900 15000 15100 15200 15300 15400 15500 15600 15700 15800 15900 16000 16100 16200 16300 16400 16500 16600 16700 16800 16900 17000 17100 17200 17300 17400 17500 17600 17700 17800 17900 18000 18100 18200 18300 18400 18500 18600 18700 18800 18900 19000 19100 19200 19300 19400 19500 19600 19700 19800 19900 20000 20100 20200 20300 20400 20500 20600 20700 20800 20900 21000 21100 21200 21300 21400 21500 21600 21700 21800 21900 22000 22100 22200 22300 22400 22500 22600 22700 22800 22900 23000 23100 23200 23300 23400 23500 23600 23700 23800 23900 24000 24100 24200 24300 24400 24500 24600 24700 24800 24900 25000 25100 25200 25300 25400 25500 25600 25700 25800 25900 26000 26100 26200 26300 26400 26500 26600 26700 26800 26900 27000 27100 27200 27300 27400 27500 27600 27700 27800 27900 28000 28100 28200 28300 28400 28500 28600 28700 28800 28900 29000 29100 29200 29300 29400 29500 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UST3KACHKINTSEV4V8F8

600

1. UST'-KACHKINSTEV, V. F.

2. USSR (600)

"Stratification in Ternary Systems --- V.", Zhur. Obshch. Khim., 9, No. 19, 1939.  
Laboratory of Physical Chemistry. Perm' State University. Received 14 April 1939.

9. Report U-1626, 11 Jan 1952.



117 AND 118 INDEX

RESEARCH AND PROPERTIES INDEX

119 AND 120 INDEX

2

Common Elements

Common Valence States

Electrical conductivity of the system  $H_2SO_4-H_2O$ . V. E. Ust-Kachalov and A. M. Zhdanov (Molotov State Univ.). *Ann. soviet acad. phys. chem., Int. chim. gen. (U.R.S.S.)* 14, 106-10 (1941).—The elec. cond. of  $H_2SO_4-H_2O$  was studied at 20-60° on aq. contg. 1.98-87.8 mol. % of  $H_2O$  (9.98-97.5 wt. %). The curves had a max., a transition point, and 2 minima. The max. is close to the ordinate of the monohydrate. The transition point is presumably connected with the formation of the tetrahydrate. The position of the minima was not fixed definitely, but they were close to the values for individual components. M. Hoesch

ASS. ILLA METALLURGICAL LITERATURE CLASSIFICATION

119 AND 120 INDEX

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2

Electric conductivity of systems formed by water with phenol, piperidine, and chloral. N. A. Trifonov, V. P. Ust-Kachalov, and B. Ya. Teitelbaum (Acad. Sci. U.S.S.R., Kazan). *J. Phys. Chem. (U.S.S.R.)* 21, 735-43 (1947) (in Russian).—The elec. cond.  $\kappa$  in the  $H_2O$ -PhOH system has a sharp max. at about 1 mol. % of PhOH, and the temp. coeff.  $\alpha$  between 75 and 95° has a very flat max. at about 80%. In the system  $H_2O$ - $C_6H_{11}N$ ,  $\kappa$  has a sharp max. at 2 mol. % of  $C_6H_{11}N$  (0.00873 ohm<sup>-1</sup>cm<sup>-1</sup> at 25°), and  $\alpha$  between 0° and 25° has a sharp max. (0.167) at about 33 mol. % of  $C_6H_{11}N$ ; this shows the existence of a dihydrate. The  $\alpha$  between 35° and 50° is small and almost independent of concn. In the system  $H_2O$ -chloral there is a sharp max. of  $\kappa$  at 7 mol. % (0.00406 ohm<sup>-1</sup>cm<sup>-1</sup> at 25°), and  $\alpha$  increases up to 60 mol. % of chloral. The formation of chloral hydrate is not visible on these curves. It is possible that the chloral used contained HCl and dichloroacetic acid. J. J. Bikerman

ASS-11A METALLURGICAL LITERATURE CLASSIFICATION



2

*ch*

The electric conductivity of the system pyridine-water. N. A. Trifonov and V. F. Ust-Kachintsev (Kazan Branch, Acad. Sci. U.S.S.R.). *Zhur. Fiz. Khim. (U.S.S.R. Phys. Chem.)* 22, 747-52 (1946).—The elec. cond.  $K$  of pyridine-H<sub>2</sub>O mixts. gradually increases on keeping in glass bottles closed with ground glass stoppers.  $K$  of 5 mol. % soln. of pyridine had at 0°  $K = 17 \times 10^{-6}$  ohm<sup>-1</sup> cm<sup>-1</sup> when fresh and  $48 \times 10^{-6}$  when 60 days old. This soln. had the highest cond.; there are 2 or 3 smaller max. and several small min. on the curve of  $K$  against compn., which may indicate formation of hydrates. The temp. coeff. of  $K$  between 0° and 60° has a low max. between 20 and 30 mol. % pyridine. J. J. Liberman

450.554 METALLURGICAL LITERATURE CLASSIFICATION

FROM BOWERY

FROM STATION	FROM DIVISION	RELATIONS	DATE

UST-KACHKINTSEY, V.F.

USSR .

Coagulation of colloidal solutions with mixtures of electrolytes of various ions. II. V. F. Ust-Kachkintsey, *Uchenye Zapiski Molotov. Univ.* No. 7, 137-47 (1953); *Referat. Zhur., Khim.* 1954, No. 39338; cf. *C.A.* 48, 12519c. —The study concerned coagulation of  $\text{SnO}_2$  sol by mixts. of KCl-NaCl, KCl-NaOH, KCl-KOH, NaCl-NaOH, NaOH-KOH, and NaCl-KOH, the components of these mixts. reacting metathetically. The sol was prepd. by hydrolysis of  $\text{SnCl}_4$  and peptized with  $\text{NH}_3$ . The concn. of  $\text{SnO}_2$  in the sol was 0.5 g./l. The coagulating mixt. KCl-NaCl added additively, i.e., there was a linear relation between the coagulation no. (loc. cit.) and the molar ratio KCl:NaCl. In the system, NaCl-NaOH the  $\text{OH}^-$  ions had a strong stabilizing effect on  $\text{SnO}_2$ . At a molar concn. ratio NaCl:NaOH = 99:1 the coagulation no. rose 15 times as compared to a NaCl soln. Further increase in NaOH had a less significant effect and above 2% NaOH the coagulation no. remained const. The relation was expressed by a curve resembling the adsorption curve. In the KOH-KCl mixt., the stabilizing effect of KOH was appreciably higher than that of NaOH. At a KCl:KOH ratio of 95:5, the coagulation threshold was diffuse, and further increase in the KOH content did not cause coagulation. This is explained by the interaction of KOH and  $\text{SnO}_2$  to form stannate. In the system NaOH-KOH, the coagulation no. increased with the KOH content. The effect of  $\text{OH}^-$  ions in the systems NaCl-KOH and KCl-NaOH was analogous but the coagulation curves were different. M. Hasek

MA  
JSD

UST'-KACHKINTSEV, Y.F.

Congulation of colloidal solutions by mixtures, containing a potential-determining electrolyte. Koll.zhur. 15 no.5:394-400 '53. (MLRA 6:9)

1. Molotovskiy universitet, Kafedra fizicheskoy i kolloidnoy khimii.  
(Colloids) (Electrolytes)

Ust. KACHINTSEV, V. F.

Coagulation of colloidal solutions by mixtures containing  
potential determining ions

Ust. Kachintsev, F.

5.3610

7739<sup>4</sup>  
SOV/79-30-1-55/78

AUTHORS: Konovalova, L. L. Ust'-Kachkintsev, V. F.

TITLE: Concerning the Reaction Between Thiocyanate Esters and Amines

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 246-250 (USSR)

ABSTRACT: Reaction between ethyl thiocyanate and aniline, piperidine, and dimethylaniline was studied by measuring the densities, viscosities, and electrical conductivities of the mixtures of ethyl thiocyanate with amines. The results of the measurements are given in Figs. 1, 2, 3, 4, 5, and 6.

Card 1/5

Concerning the Reaction Between Thiocyanate Esters and Amines

77394  
SOV/79-30-1-55/78

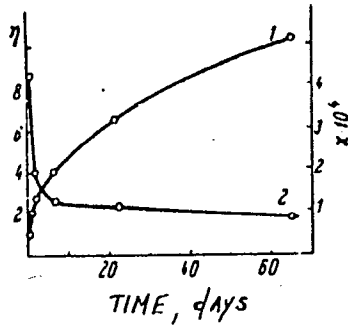


Fig. 1. Change in viscosity (1) and electrical conductivity (2) of a 50% mixture of ethyl thiocyanate with piperidine with time, at 25°.

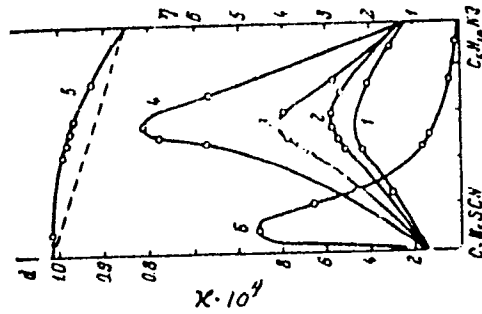


Fig. 2. System ethyl thiocyanate--piperidine, at 25°. (1-4) Viscosity after 1, 2, 7, 20 days; (5) density after 1 day; (6) electrical conductivity after 1 day.

Card 2/5

Concerning the Reaction Between Thiocyanate Esters and Amines

77394  
SOV/79-30-1-55/12

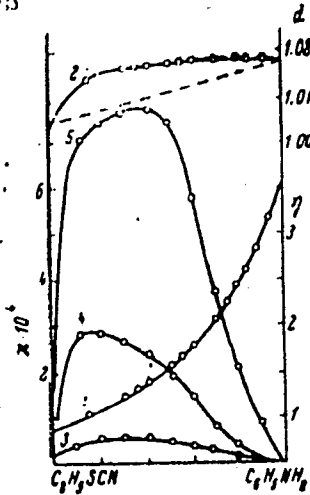


Fig. 3. System ethyl thiocyanate--aniline, at 25°. (1) Viscosity after 1 day; (2) density after 1 day; (3-5) electrical conductivity after 1, 15, 140 days.

Card 3/5

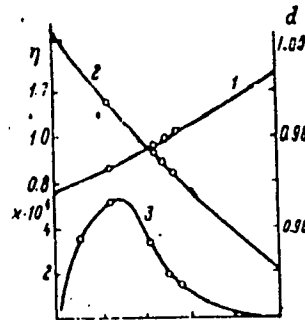


Fig. 4. System ethyl thiocyanate--dimethylaniline, at 25°. (1) Viscosity; (2) density; (3) electrical conductivity after 8 months.



Concerning the Reaction Between Thiocyanate Esters and Amines

77394  
SOV/79-30-1-55/78

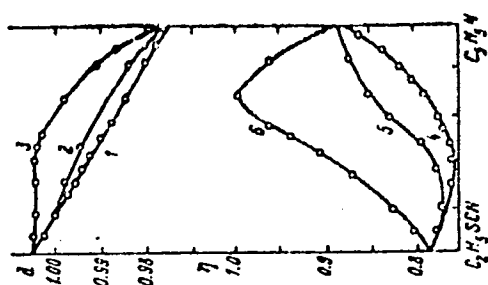


Fig. 5. System ethyl thiocyanate--pyridine, at 25°. (1-3) Densities after 1 day, 2 months, 1.5 years; (4-6) viscosity after 1 day, 2 months, 1.5 years. Card 4/5

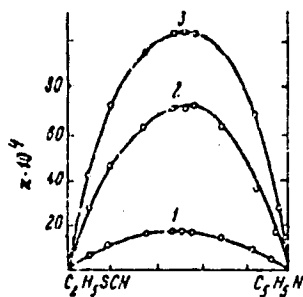


Fig. 6. Electrical conductivity of the mixture: ethyl thiocyanate--pyridine. (1,2) After 2 months and 1.5 years, at 25°; after 1.5 years at 50°.

Concerning the Reaction Between Thiocyanate  
Esters and Amines

77394  
SOV/79-30-1-55/78

Changes of the properties of the above mixtures indicate that chemical reactions between the components of the mixtures take place. There are 6 figures; and 6 references, 1 German, 5 Soviet.

ASSOCIATION: Perm' State University (Permskiy gosudarstvennyy universitet)

SUBMITTED: August 23, 1958

Card 5/5

V. F. UST-KACHKINTSEV, V. I.  
USSR/Physical Chemistry, Thermodynamics, Thermochemistry,  
Equilibriums, Phys-Chem. Anal. Phase-Transitions.

B-3

Abs Jour : Ref Zhur - Khimiya, No 7, 1957, 22342.

Author : V. F. Ust-Kachkintsev, A. V. Lyubimova.

Inst : Not given

Title : Binary systems light-absorption.

Orig Pub : Uch zap Molotovsk, un-ta. 1955, 9, No 4, 101-112.

Abstract : A dependence of optical density on concentration is established and basic types of light absorption diagrams for a normal binary system were developed. Obtained deductions were confirmed experimentally in nitrobenzene (I) - cymene, I - xylene, I - benzene systems. Basic rules in general aspect which must distinguish light absorption diagrams of binary systems with a chemical interaction are studied. Experimental results of the light-absorption study in o-nitrophenol-piperidine (II) and m-nitrophenol -- II systems are given.

Card 1/1

-113-

44858

S/061/62/000/024/013/073  
B117/B186

AUTHORS: Verzhbitskiy, F. R., Ust'-Kachkintsev, V. F.  
TITLE: Use of high-frequency methods in physicochemical analysis  
PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1962, 91, abstract  
24B640 (Uch. zap. Permsk. un-t, v. 19, no. 1, 1961, 55-58)

TEXT: The high-frequency conductivity was measured in the solid-state systems  $AgNO_3 - NaNO_3$ ,  $AgNO_3 - NH_4NO_3$  and  $NaNO_3 - KNO_3$  at  $20^\circ C$ . The transition from one phase into another as demonstrated in the high-frequency conductivity diagrams of the systems studied is accompanied by a discontinuity. The increase in conductivity in the region of eutectic compositions is attributed to the structure of the alloy and its degree of dispersion. [Abstracter's note: Complete translation.]

Card 1/1

L 28002-66

ACC NR: AR6011869

SOURCE CODE: UR/0081/65/000/016/B073/B073

AUTHOR: Verzhbitskiy, F. R.; Ust'-Kachkintsey, V. F.

41  
B

TITLE: Investigation of polymorphism by the high-frequency method

SOURCE: Ref. zh. Khimiya, Abs. 168505

REF SOURCE: Uch. zap. Permsk. un-t, no. 111, 1964, 24-28

TOPIC TAGS: electric conductance, polymorphism, HF, electric capacitance, temperature measurement

ABSTRACT: The possibility has been investigated of using of the high-frequency method for recording of polymorphic transformations using a device, which permits automatic recording of four curves, namely temperatures, temperature differences, electric conductance, and electric capacitance. It was shown on  $\text{NH}_4\text{NO}_3$  and  $\text{KNO}_3$  samples that polymorphic transformation clearly reveal themselves on the conductance and capacitance curves. The capacitance and conductance of the  $\text{KNO}_3\text{-K}_2\text{Cr}_2\text{O}_7$  system in the solid state at various temperatures were measured. The capacitance and conductance isotherms were found to have extreme points, the position of which corresponds to the composition of a eutectic mixture. [Author's summary.] [NF]

SUB CODE: 071

SUBM DATE: none/

Card 1/1 *pl*

2

5.3300

77852  
SOV/79-30-2-3/78

AUTHORS: Levina, R. Ya., Kostin, V. N., ~~Ushakov, T. K.~~

TITLE: Reaction of Cyclopropanes With Mercuric Salts. XI. Cleavage of the Three-Membered Ring in (0, 1, N)-Bicycloalkanes (N = 2, 3, and 4)

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, Nr 2, pp 359-363 (USSR)

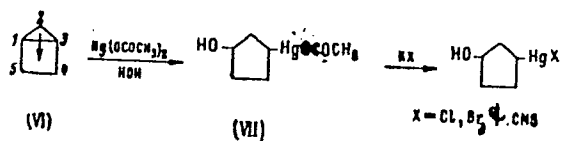
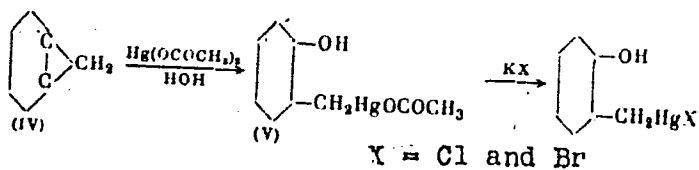
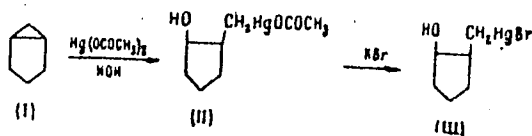
ABSTRACT: The action of mercuric acetate on (0,1,3)-bicyclohexane (I, norhujane), (0,1,4)-bicycloheptane (IV, norcarane), and (0,1,2)-bicyclopentane (VI), as well as other (0,1,N)-bicycloalkanes, can be used to identify these substances by the final reaction products -mercurated alcohols and their derivatives. The reactions for compounds I, IV, and VI are represented below:

Card 1/5

Reaction of Cyclopropanes With Mercuric Salts.  
 XI

77852

30V/79-30-2-3/78



Card 2/5

Reaction of Cyclopropanes With Mercuric Salts.  
XI

77852  
SOV/79-30-2-3/78

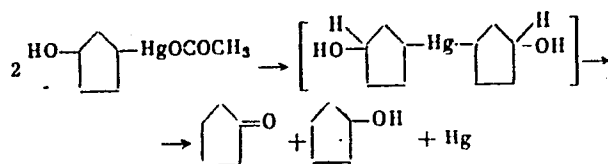
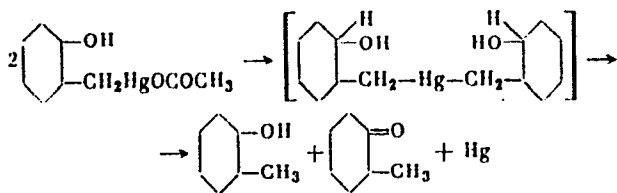
The reactions were performed by mixing the respective hydrocarbon with mercuric acetate (at room temperature for compounds I and IV and at 0° for VI) and by subsequent addition of potassium bromide to the product (the mercurated alcohols II, V, and VII) to obtain the halomercuri-derivatives. The cleavage of the three-membered ring in (0,1,2)-bicyclopentane takes place at the carbon-carbon "bridge" bond, while in the case of (0,1,3)-bicyclohexane and (0,1,4)-bicycloheptane the bond between the least and the most substituted carbon atoms is broken, leading to the formation of mercurated alcohols of the cycloheptane and cyclohexane series, respectively. The site of the ring cleavage was determined by results of thermal decomposition of mercurated alcohols. The reactions and final products for the pyrolysis of V and VII are shown below:

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Reaction of Cyclopropanes With Mercuric Salts.  
 XI

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 SOV/79-30-2-3/78



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The following derivatives of the mercurated alcohols were isolated and analyzed: 2-hydroxy-1-bromo-

Reaction of Cyclopropanes With Mercuric Salts.  
XI

77852

SOV/79-30-2-3/78

mercurimethylcyclopentane (III), 151-152°; 2-hydroxy-1-acetoxymethylcyclohexane (V), mp 129-130°; 3-hydroxy-1-chloromercuricyclopentane, mp 97-98°; 3-hydroxy-1-bromomercuricyclopentane, mp 129-130°; 3-hydroxy-1-thiocyanomercuricyclopentane, mp 110-111°; 2-hydroxy-1-chloromercurimethylcyclohexane; mp 122-123°; 2-hydroxy-1-bromomercurimethylcyclohexane, mp 114-115°. There are 13 references, 4 Soviet, 5 German, 1 Belgian, 1 Swiss, 2 U.S. The U.S. references are: W. E. Doering, A. K. Hoffman, J. Am. Chem. Soc., 76, 6162 (1954); C. R. Noller, R. Adams, J. Am. Chem. Soc., 48, 1084 (1926).

ASSOCIATION: Moscow State University (Moskovskiy gosudarstvennyy universitet)

SUBMITTED: March 2, 1959

Card 5/5

L 00311-66 EWT(m)/EWP(w)/EPF(c)/T/EWP(t)/EWP(b) BW/JD/DJ/GS

ACCESSION NR: AT5020431

UR/0000/65/000/000/0005/0007

AUTHORS: Akhmatov, A. S.; Ustok, Kh. Z.

34  
32  
Bx1

TITLE: Pressure dependence of surface friction forces

SOURCE: AN SSSR. Nauchnyy soviet po treniyu i smazkam. Teoriya smazochnogo deystviya i novyye materialy (Theory of lubricating action and new materials). Moscow, Izd-vo Nauka, 1965, 5-7

TOPIC TAGS: lubricant, lubricant property, surface friction / GOST 982 53 transformer oil, MZF 6 watch oil

ABSTRACT: To determine the accuracy of the Amont-Kulon surface friction law (W. B. Hardy. Collected Scientific Papers. Cambridge, 1936, p. 609) over a wide range of pressures, the friction forces of steel, Cr, Al, Cu, and Ni couples lubricated by pure stearic acid and technical oils<sup>44</sup> (vaseline oil, transformer oil GOST 982-53, and watch oil MZF-6) were investigated as a function of contact pressure. Three specimens were lubricated as per A. S. Akhmatov (Molekulyarnaya fizika granichnogo treniya. M., Fizmatgiz, 1963), loaded by a hydraulic press, and the center specimen was then pushed by a screw jack, recording the force required to initiate motion. Only the data for steel on steel are presented (see Card 1/4)

L 00311-66

ACCESSION NR: AT5020431

Figs. 1 and 2 on the Enclosure). As can be seen, the results were not linear, indicating that the Amont-Kulon law is a linear approximation which can be used only over a limited contact pressure range. A short discussion of the friction phenomenon concludes that the exponential nature of the curve is determined by the fundamental relation of atomic interaction forces on atomic spacing. Orig. art. has: 4 figures.

ASSOCIATION: Nauchnyy sovet po treniyu i smazkam, AN SSSR (Scientific Committee on Friction and Labrication, AN SSSR)

SUBMITTED: 22May65

ENCL: 02

SUB CODE: FP

NO REF SOV: 003

OTHER: 004

Card 2/4

I 00311-66

ACCESSION NO: AT5020431

ENCLOSURE: 01

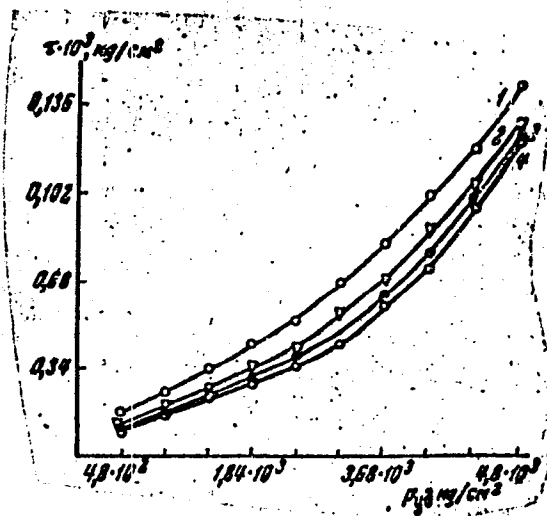


Fig. 1. Static friction vs contact pressure for various thickness of stearic acid: 1- 0.01, 2- 0.02, 3- 0.03, 4- 0.04 micron

Card 3/4

L 00311-66

ACQUISITION NR: AT5020431

ENCLOSURE: 02

0

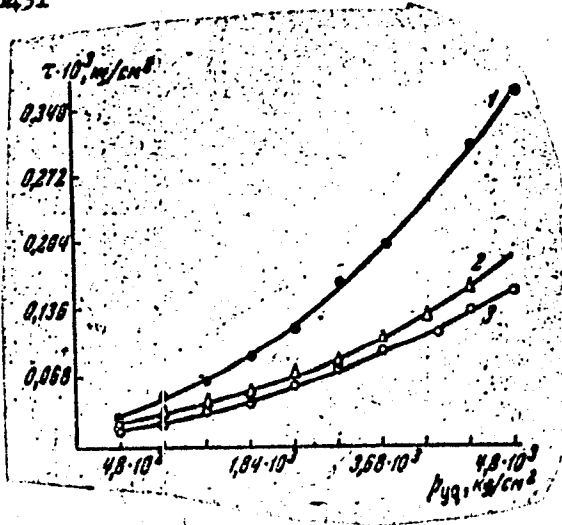


Fig. 2.

1- vaseline oil; 2- transformer oil; 3- watch oil

Card

USTRASHKIN, P. Ye.

FD-830

USSR/Chemistry - Soda industry effluents

Card 1/1      Pub.50 - 13/24

Author      :   Trebukov, P. D., Ustrashkin, P. Ye.

Title        :   The utilization of effluents of soda plants

Periodical  :   Khim. prom., No 6, 369 (49), Sep 1954

Abstract    :   Describes the use of soda industry effluents (consisting mainly of calcium carbonate, calcium hydroxide, and calcium chloride) as an effective additive to Portland cement and other building materials.

Institution :   Central Scientific Research Laboratory of Building Materials ("Tsnil-khimstroy") and Main Administration of Chemical Industry Construction ("Glavkhimpromstroy").

Submitted   :

FD-1563

USSR/Chemistry - Construction *USTRASHKIN, P. Ye.*

Card 1/1 : Pub. 50-20/25

Author : ~~Ustrashkin, P. Ye.~~

Title : Twentieth anniversary of the 6th Installation Trust, Main Administration of Chemical Industry Construction [News Section].

Periodical : Khim. prom., No 8, p 500 (52), Dec 1954

Abstract : Reviews briefly the activities of 6th Installation Trust (originally the Organic Chemistry Installation Trust) during the 20 years of its existence. Says that it has developed methods for the welding of various grades of steel (including two-ply steel) used in the construction of chemical equipment and also for the welding by heat of pipelines and equipment made of viniplast. Describes the equipment used by the trust in installing chemical equipment and says that it uses X-ray and gamma-ray equipment in testing.

Institution : Main Administration of Chemical Industry Construction, Ministry of Chemical Industry USSR

Submitted :



USTRASHKIN, P.Ye., red.; TREPENENKOV, R.I., kand. tekhn. nauk,  
nauchn. red.

[Design and planning of the shops of chemical plants]  
Proektirovanie tsekhov khimicheskikh zavodov. Moskva,  
Stroiizdat, 1964. 97 p.  
(MIRA 18:2)

BROUNSHTEYN, B.I.; BYKOVA, L.G.; POKORSKIY, V.N.; USTRAYKH, M.A.;  
YABLOCHKINA, M.N.

Experimental check of the method of calculating the height of  
countercurrent packed and plate columns in processes involving  
the solution of a one-component disperse phase (the system toluene -  
diethylene glycol). Zhur.prikl.khim. 34 no.3:548-557 Mr '61.  
(MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh  
protseessov.

(Plate towers) (Packed towers)

SILINA, N.P.; POKORSKIY, V.N.; SHIRYAYEVA, Ye.I.; USTRAYKH, M.A.

Vapor - liquid equilibrium in the systems toluene - diethylene glycol and o-xylene - diethylene glycol. Trudy VNIIneftekhim (MIRA 15:7)

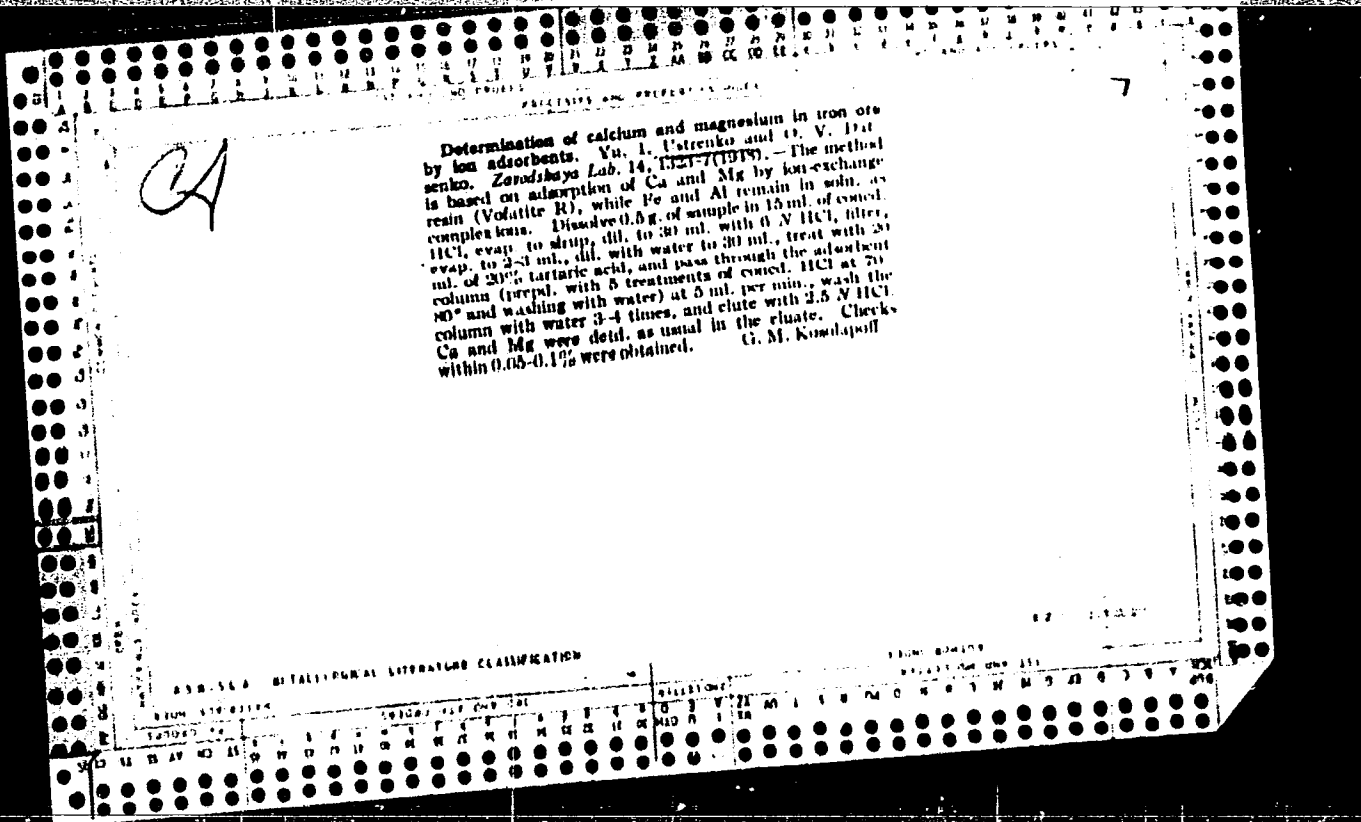
no.5:124-132 '62.

(Toluene) (Xylene)  
(Diethylene glycol)

USTRAYKH, M.A.; BROUNSHTEYN, B.I.; PCKORSKIY, V.N.

Selective solution by diethylene glycol of toluene-n.heptane in  
countercurrent packed columns. Zhur.prikl.khim. 35 no.11:2454-2460  
N '62. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh  
professov. (Toulene) (Heptane) (Extraction (Chemistry))



USTRITSKIY, V.I.

Brachiopod finds from Permian deposits in eastern Taimyr. Dokl.  
AN SSSR 105 no.4:805-807 D '55. (MLRA 9:3)

1. Nauchno-issledovatel'skiy institut geologii Arktiki, Leningrad.  
Predstavleno akademikom D.V. Nalivkinym.  
(Taimyr National Area--Brachiopoda, Fossil)

USTRITSKIY, V.I.

On the northward extension of the Urals. Dokl. AN SSSR 110  
no.3:437-439 S '56. (MLRA 9:12)

1. Institut geologii Arktiki, Leningrad. Predstavleno akademikom  
D.V. Malivkinym.  
(Ural Mountains--Geology)  
(Arctic regions--Geology)

USTRITSKIY, V.I.

ATLASOV, I.P.; DEMOKIDOV, K.K.; DIBNER, V.D.; EGIAZAROV, B.Kh.; IVANOVA,  
A.M.; LOBANOV, M.F.; MARKOV, P.G.; RABKIN, M.I.; RAVICH, M.G.;  
SAKS, V.H.; SOKOLOV, V.H.; TKACHENKO, B.V.; USTRITSKIY, V.I.;  
NALIVKIN, D.V., nauchnyy red.; VASIL'YEV, R.P., red.; SOLOV'YEV,  
L.D., red.; NEKHOROSHEV, A.P., red.; DOLGONOS, L.G., tekhn. red.

[Geological map of the Soviet Arctic] Geologicheskaya karta  
Sovetskoi Arktiki. Sost. I.P. Atlasov [i dr.] Glav. red. P.G.  
Markov. ....Nauchn. red. D.V. Nalivkin. [Moskva] 1957. ..Col.  
map 89 x 131 cm. no. 4 sheets 51 x 72 cm. .. Scale 1:2,500,000.  
..Inset: [Geological map of Wrangel Island] Geologicheskaya karta  
Ostrova Vrangelia, 1:1,500,000. (MIRA 11:8)  
(Arctic regions--Geology--Maps)  
(Wrangel Island--Geology--Maps)



IVANOV, A.M.; USTRITSKIY, V.I.; MOLDAVANTSEV, Yu.Ye.

Geology of the Arctic Urals and of the Pay-Khoy Range. Trudy Nauch.-  
issl. geol. Arkt. 81:58-96 '57. (MIRA 11:5)  
(Ural Mountain region--Geology)

USTRITSKIY, V.I.

New data on the stratigraphy of the upper Paleozoic in the  
central sector of the Soviet Arctic. Trudy NIIGA 92:20-35  
'58. (MIRA 13:4)  
(Russia, Northern--Geology, Stratigraphic)

USTRITSKIY, V.I.

Contact of the Permian and Carboniferous in the Pay-Khoy.  
Trudy NIIGA 80:3-14 '58. (MIRA 14:11)  
(Pay-Khoy Range--Geology, Stratigraphic)

USTRITSKIY, V.I.

Stratigraphy of Permian deposits on the northwestern  
slope of the Pay-Khoy Range (in the region west of the  
Kara Bay). Sbor.st.po paleont.i biostrat. no.16:44-61  
'59. (MIRA 13:3)  
(Pay-Khoy Range--Geology, Stratigraphic)

USTRI'TSKIY, V.I.

Basic results of specific field work in the central and  
eastern Taymyr Peninsula. Inform. biul. NIIGA no.17:  
42-45 '59. (MIRA 13:11)  
(Taymyr Peninsula--Prospecting)

USTRITSKIY, V.I.

Comparative characteristics of Carboniferous and Permian  
brachiopods of China and the U.S.S.R. Paleont.zhur. no.3:  
15-20 '60. (MIRA 13:10)

1. Nauchno-issledovatel'skiy institut geologii Arktiki.  
(China--Brachiopods, Fossil)

USTRITSKIY, V.I.

Permian brachiopods of the Pay-Khoy (Inarticulata Strophomenidae,  
and Chonetidae). Trudy NIIGA 111:93-130 '60. (MIRA 14:7)  
(Pay-Khoy Range—Brachiopoda, Fossil)

USTRITSKIY, V.I.

Lower and upper Permian border line in the Pechora Basin and  
Arctic. Trudy NIIGA 114:39-49 '60. (MIRA 13:11)  
(Pechora Basin--Paleontology) (Arctic Regions--Paleontology)



USTRITSKIY, V.I.

Distribution of brachiopods in the Upper Paleozoic of the  
Arctic zoogeographical area. Paleont.zhur. no.3:3-13 '61.  
(MIRA 15:2)

1. Nauchno-issledovatel'skiy institut geologii Arktiki.  
(Arctic regions—Brachiopoda, Fossil)

USTRITSKIY, V.I.

Basic stages in the development of ocean basins and brachiopods  
during the Permian in Asia. Sov. geol. 4 no.1:49-64 Ja '61.  
(MIRA 14:1)

1. Nauchno-issledovatel'skiy institut geologii Arktiki.  
(Submarine geology) (Brachiopoda, Fossil)

SHVEDOV, N.A.; USTRITSKIY, V.I.; HERNYAK, G.Ye.; GERKE, A.A.; SOSIPATROVA, G.P.

New stratigraphic scheme of upper Paleozoic sediments in the Taymyr  
Peninsula. Sbor.st.po paleont. i biostrat. no.24:12-15 '61.  
(MIRA 15:2)

(Taymyr Peninsula—Geology, Stratigraphic)

USTAIKSHIY, V.I.

Genal facies of middle-Paleozoic sediments in the Pay-Kho and  
northern Polar Urals. Trudy NIIGA 123:41-60 '61.  
(MIRA 14:10)

(Ural Mountain region--Geology, Stratigraphic)

USTRITSKIY, V.I.

Tectonics of the Pay-Khoy Range and the northern extremity of the  
Polar Urals. Trudy NIIGA no.125:75-101 '61. (MIRA 16:7)  
(Ural Mountains—Geology, Structural)

USTRITSKIY, V.I.

Origin of the family Horridoniidae Muir-Wood et Cooper. Paleont.  
zhur. no.3:57-60 '62. (MIRA 15:9)

1. Nauchno-issledovatel'skiy institut geologii Arktiki.  
(Taymyr Peninsula--Brachiopoda, Fossil)

USTRITSKIY, V.I.

New data on Permian Brachiopoda of Spitsbergen. Sber.st.p. paleont.  
i bistrat. no. 28:74-89 '62. (MIRA 16:9)  
(Spitsbergen—Brachiopoda, Fossil)

USTRITSKIY, V.I.

Basis for the correlation of Middle and Upper Carboniferous  
sediments in the Taymyr Peninsula and the northern part of the  
Verkhoyansk Range. Sbor.st.po paleont.1 biostrat. no.30:5-16  
'62. (MIRA 16:12)



USTRITSKIY, Vitaliy Ivanovich; CHERNYAK, Georgiy Yevseyevich;  
POPCV, Yu.N., doktor geol.-mineral.nauk, red.; BESHALYT, M.S.,  
vedushchiy red.

[Biostratigraphy and brachiopods of the Upper Paleozoic of  
the Taymyr Peninsula.] Biostratigrafiya i brakhiopody verkhnego  
paleozoya Taimyra. Leningrad, Gostoptekhizdat, 1963. 138 p.  
(Leningrad. Nauchno-issledovatel'skii institut geologii arktiki.  
Trudy, vol. 134) (MIRA 17:6)

USTRIALOV, N.

Hic Bohdus, hic Salta! Kharbin, 1929. 14 p.

SOV/138-58-10-7/10

**AUTHORS:** Kirpichev, A. I; Ustrugov, L. L. Mistryakova, G. V;  
Nikol'skaya, V. N.

**TITLE:** Preparation of Rubber Mixes on Continuous Production Lines (O potochnykh liniyakh po izgotovleniyu rezinovykh smesey)

**PERIODICAL:** Kauchuk i Rezina, 1958, Nr 10, pp 29 - 32 (USSR)

**ABSTRACT:** An account is given of 2½-years experience since the introduction of continuous-line working in the rubber mixing, milling, extrusion calendaring and other sections of the factory. Wasteful cooling and re-heating of the rubber mix between stages of preparation has been eliminated by careful integration of the capacities of the various units of the plant which feed directly from one unit to the next. The rubber mix is transported on conveyor belts from the mixers to the initial leafing mills, through to the mills feeding the calenders and other plant, as a ribbon about 20 cm wide. The necessary organization between the various shops to co-ordinate rate of consumption of the mix is discussed. The introduction of "express-control" methods, enabling the mixes to be tested for correct vulcanizing properties, within about 3 minutes of preparation, is essential to success-

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SOV/138-58-10-7/10

Preparation of Rubber Mixes on Continuous Production Lines

ful continuous-line working. Considerable savings are quoted (actually in thousands of roubles, but not related to output) with respect to power requirements for the rubber mills, reduction in amount of cooling water and compressed air used, and in particular through elimination of wastage of material as a result of rapid inspection possible with "express-control". Further economies result from the small labour force required which gives approx. 10% greater output per man-shift, and through freeing of space formerly required for intermediate storage of material in course of preparation. There are 2 Figures and 1 Table.

ASSOCIATION: Kirovskiy shinny zavod (Kirov Tire Factory)

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SOV/138-59-3-11/16

AUTHOR: Ustrugov, L.L.

TITLE: The Two-Stage Preparation of Mixtures During Continuous  
Production of Semi-Finished Articles (Dvukhstadiynoye  
izgotovleniye smesey pri potochnom vypuske polufabrikatov)

PERIODICAL: Kauchuk i rezina, 1959, <sup>vol. 19</sup> Nr 3, pp 48 - 49 (USSR)

ABSTRACT: In the Kirov Tyre Factory a two-stage process of mixing is used for mixtures containing 50% and 100% natural rubber. Originally, Altax and Captax were used as plasticisation accelerators (1954). The quality of rubber mixtures with/without the addition of carbon black plasticisers is compared in Table 1. During 1955 a two-stage method of mixing was introduced which made it possible to avoid scorching of the mixtures; further modifications of the process were introduced during 1956. "osin and "Rubrax" were added to the tyre rubber mixture - the latter containing NK, SKB and regenerated rubber -  
Card 1/4 during the first stage of mixing. This made it possible

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The Two-Stage Preparation of Mixtures During Continuous  
Production of Semi-Finished Articles

to lower the mixing temperature to 130 - 140°C and to separate the unmixed SKB and regenerated rubber during the second stage. The temperature of mixing during the second stage reached 85°C, and it was therefore possible to introduce the sulphur into the mixer after 1 to 2 minutes. Special laboratory tests were carried out to establish the sensitivity of the method when changing the composition of the mixtures. The following optimum temperatures of vulcanisation were established: 168±2°C for "breaker" mixtures and 178±2°C for tyre mixtures. It was suggested that a so-called "plasticisable plastic mass" should be used, i.e. that larger quantities of plasticiser should be introduced during the first stage. This can be achieved by 1) considerably increasing the plasticity of natural rubber so that it can be mixed with the rubber SKB, which has a plasticity of 0.50 to 0.55 (according to Karrer); 2) by introducing dispersing agents (during the first stage) to achieve their even distribution in the rubber, and facilitate mixing with activated carbon black at low temperatures; 3) by adding semi-active

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fillers during the first stage and activated fillers during the second stage, so that only small quantities of active fillers should be contained in the mixture during the second stage. The quantity of scorched material was considerably reduced by using the above described method of preparation of SKB and NK tyre mixtures. The physical and mechanical characteristics of the vulcanisates remained unchanged, with the exception of the relative elongation which was reduced on an average from 680 to 620%. Data obtained during the preparation of rubber mixtures when using the four different methods (one-stage process - without the addition of an accelerator; one-stage process when using Renatsit-IV or Pentone-22; two-stage process and the modified two-stage process) are compared in Table 2, but it was found that

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even this mixing process is not entirely satisfactory,  
further investigations should be carried out to improve  
the quality of manufactured articles.

There are 2 tables.

ASSOCIATION: Kirovskiy shinnyy zavod (Kirov Tyre Factory)

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KOREN'KOV, V.Ye., kandidat tekhnicheskikh nauk, redaktor; USTRUKOVA, N.L.,  
redaktor

[Residential construction (2-5 stories) from standard plans;  
collection of articles] Zhilishchnoe stroitel'stvo po tipovym  
proektam (2-5 etazhei); sbornik statei. Moskva, Gos. izd-vo  
lit-ry po stroitel'stvu i arkhitekture, 1954. 77 p. (MIRA 7:9)  
(Apartment houses)

CHARNYY, Semen Semenovich, kandidat tekhnicheskikh nauk; BRIK, Frida Germanovna, inzhener; FILIPPOV, A.V., redaktor; USTRUGOVA, N.L., redaktor:

[Facing brick] Litsevoi kirpich. Pod obshchei red. A.V.Filippova. Moskva, Gos.isd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. (MLBA 9:5)  
133 p.

1.Akademiya arkhitektury SSSR, Moscow. Institut stroitel'noy tekhniki. 2.Chlen-korrespondent Akademii arkhitektury SSSR.(for Filippov) (Bricks)

USTRUGOVA, N.L.

STRAMENTOV, Andrey Yevger'yevich, doktor tekhnicheskikh nauk, professor;  
BAKUTIS, V.E., kandidat tekhnicheskikh nauk, dotsent, redaktor;  
KUZNETSOV, A.I., arkhitekto, redaktor; FRIDENBERG, G.V., inzhener,  
redaktor; USTRUGOVA, N.L., arkhitekto, redaktor; PERSON, M.N.,  
tekhnicheskii redaktor

[Engineering problems in city planning] Inzhenernye voprosy plani-  
rovki gorodov. Moskva, Gos. izd-vo lit-ry po stroit. i arkhit.,  
1955. 361 p. (MLRA 8:6)  
(Municipal engineering) (City planning)

KNYAZHITSKIY, Iosif Il'ich; UST'-SHOMUSHSKIY, Georgiy Veniaminovich;  
RUBIN, M., red.

[Machine tools of the future] Stanki budushchego. Odessa,  
Odesskoe knizhnoe izd-vo, 1960. 79 p. (MIRA 15:4)  
(Machine tools--Numerical control)



DOBROVOL'SKIY, I.P.; USTUPNYY, V.A.; AKULOV, P.V.; PRAVDIN, V.N.

Modification of the spraying system for coke quenching. Koks  
i khim. no.12:25-27 '63. (MIRA 17:1)

1. Chelyabinskiy metallurgicheskiy zavod.

USTUROV, D.

Employees in commerce. Vsem. prof. dvizh. no.1:45-46 Ja '61.  
(MIRA 14:1)

1. Sekretar' Mazhdunarodnogo ob'yedineniya profsoyuzov rabotnikov  
torgovli.

(Retail trade) (Hours of labor)

"STVOL'SKAYA, T.I., Cand Tech Sci -- (diss) "Problems  
of the accuracy of the graphic intergration of functions."

Len, 1958, 16 pp (Win of Higher Education USSR.

Len Order of Labor Red Banner Tech Inst. in Lensevel.

Chair of Descriptive Geometry and Graph<sup>S</sup>) 120 copies

(KL, 29-58, 133)



USTVOL'SKAYA, T.I., inzh.

Use of graphic integration in computing volumes of bodies limited  
by topographical surfaces. Sbor. LIIZHT no.158:409-421 '58.  
(MIRA 11:6)

(Geodesy)

86

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C111/C222

/6.6500

AUTHOR: Ustvol'skaya, T.I.

TITLE: Comparing estimates of the exactness of methods of the graphical integration of functions

PERIODICAL: Referativnyy zhurnal. Matematika, no.7, 1960, 227.  
Abstract no.8318. Tr.Leningr.tekhnol.in-ta im.Lensoveta, 1959, vyp.50, 57-62

TEXT: By the experimental examination of several graphical methods of integration according to the method of D.I.Kargin, O tochosti graficheskikh raschetov (On the exactness of graphical calculations), Sb. LIIPS, 1929, no.101) the author gives some final conclusions in a very categorical form, most of them, however, are not sufficiently convincing. X

[Abstracter's note: The above text is a full translation of the original Soviet abstract.]

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USTVOL'SKAYA, T. I., Candidate Tech Sci (diss) -- "Problems of the precision of graphic integration of functions". Leningrad, 1959. 13 pp (Min Higher Educ USSR, Leningrad Order of Labor Red Banner Tech Inst im Leningrad Soviet, Chair of Descriptive Geometry and Graphics), 150 copies (KL, No 23, 1959, 168)

UST'YAN, A.

Close contact with collective farm. Prof.-tekh.obr. 17 no.3:  
18-19 Mr '60. (MIRA 13:6)

1. Direktor zolotonoshakogo uchilishcha mekhanizatsii sel'skogo  
khozyaystva No.10 Charkasskoy oblasti.  
(Zolotonosha--Farm mechanization--Study and teaching)

UST'YAN, A.K.

Testing chemicals in controlling the pine sawfly (Lophyrus sertifer  
Geoffr.) [in Armenian with summary in Russian] Izv.AN Arm. SSR. Biol.  
i sel'khoz. nauki 2 no.2:189-193 '49. (MLRA 9:8)  
(ARMENIA--SAWFLIES) (INSECTICIDES)

Name: UST'YAN, A. K.

Dissertation: The effect of hexachlorane and DDT on the entomofauna of alfalfa under the conditions in the Ararat Plain

Degree: Cand Agr Sci

*Defended at*  
Affiliation: Acad Sci Armenian SSR, Department of Biological Sciences

*Publication*  
Defense Date, Place: 1956, Yerevan

Source: Knizhnaya Letopis', No 45, 1956

STYAN, A. K.

USSR / General and Specialized Zoology. Insects. Harmful Insects and Acarids. Posts of the Technical, Oil, Medicinal and Essential-Oil Cultures.

Abs Jour : Ref Zhur - Biol., No 18, 1958, No. 82975

Author : Mardzhanyan, G. M.; Chilingaryan, V. A.; Styan, A. K.  
Inst : Armenian Scientific Institute of the Agriculture

Title : The Application of Mercaptophos in the Struggle Against Suctorial Cotton Pests

Orig Pub : Byul. nauchno-techn. inform. Arm. n.-i. in-t zemled., 1957, No 2, 22-25

Abstract : The results of plot and industrial experiments, in the background of a four- to five-fold DDT dusting per 40 kg/hectare (against the mallow moth), without the addition of the sulphur of the brand IOC f., indicate that mercaptophos (M) is highly effective against the

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...ly replaced by sulphur  
...at the end of  
...the initial appearance  
...of the cotton plant  
...at the end of June (0.5-0.8 kg/hectare),  
...expeditions to apply the first  
...the end of July (1-1.5 kg/hectare),  
...the regions, which are favorable for  
...development, it is necessary to increase the  
...of M. The action of M, by fractional applica-  
...tions, is more lasting than by a single spraying. --

COUNTRY :  
CATEGORY : GENERAL&SPEC.ZOOLOGY.INSECTS

ABS. JOUR.: Ref Zhur -Biologiya, No. 4, 1959, No. 16273

Author :  
INST. :  
TITLE :

ORIG. PUB.:

ABSTRACT :to II in its effectiveness for *Spynchis roditor-*  
zovi and the leafroller. The phytocidal prop-  
erties of I and II were substantially mani-  
fested on leaves of the fruit plants in a con-  
centration of 0.2%, but 0.25 - 0.5% concentra-  
tion of I and 0.3% concentration of II resulted  
in the shedding of the leaves of the apple and  
and apricot trees. Of the three chemical poi-  
sons tested II was considered to be outstand-  
ing. For young orchards and nurseries which

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GENERAL & APPLIED BIOLOGY  
ABS. JOUR: Dof Zhur - Biologiya, No. 4, 1959, No. 16253  
AUTHOR :  
INST. :  
TITLE :

ORIG. PUB.:

ABSTRACT: ...  
of ...

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USSR/General and Special Zoology - Insects.

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Abs Jour : Ref Zhur - Biol., No 5, 1958, 21061

Author : Ust'yan

Inst : -

Title : New Data on Parasitic Insects-Pests Attacking the Seeds of Lucerne.

Orig Pub : Izv. AN ArmSSR. Biol.i S.-kh.n., 1957, 10, No 2, 91-97

Abstract : The chief pests of lucerne on the Ararat plain were the *Phytonomus variabilis* which destroyed the first crop of lucerne almost completely (in the absence of control measures) and the seed-eater *Brachophagus gibbus*, when infected 60-80% of lucerne seeds. Five parasitic species developed on the phytonomus: one ichneumonid *Canidia exigua*, two braconides-*Dinocampus terminatus* and *D. (Perilitus) secalis* and two chalcids-*Necremnus leucarthrops* and *Tetrastichus incertus*. *Canidia exigua* was the most important parasite, its infection of the larvae of the

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Abs Jour : Ref Zhur - Biol., No 5, 1958, 21061

phytonomus (primarily in the third hatching) fluctuated greatly: from 5.5% to 84.2%. Two species of superparasites *Mesochorus* sp. and *Habrocytus* sp. were found in the case of *Canidia*. *Tetrastichus* infected the larvae of the last hatching; from seven to thirty-two specimens of the parasite developed on one infected specimen of the host; the infection fluctuated between 1.5% and 70%. *Necremmus* infected the phytonomus in the pupa phase (the infection was about 7%). *Dinocampus* infected the adult beetles of the phytonomus; the infection was between 1.4% and 60%. Only two species of chalcids were discovered on the seed eater; *Liodontomerus perplexus* and *Geniocerus bruchphagii*; the development and flight of the parasites synchronized with those of the host; the number of hatchings was also the same. *Liodontomerus* infected from 2.4% to 47.8% of specimens of the host; *Geniocerus* infected from 22.6% to & 72.3%;

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Abs Jour : Ref Zhur - Biol., No 5, 1958, 21061

A regular decrease in the numbers of both species of the pest was observed in connection with the activity of the parasites.

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