

KUVSHINOV, I.S., doktor ekonomicheskikh nauk, prof.; PIS'MENNAYA, D.N.,  
kand.ekonomicheskikh nauk, assistant

Increasing the production and decreasing the cost of pork. Izv.  
TSKHA no.3:137-148 '61. (MIRA 14:9)  
(Swine)

KUVSHINOV, I.S., prof.; GABAILO, I.A., kand. ekon. nauk; LUKHIN,  
A.G., kand. sel'khoz. nauk; YAKUB, S., red.; LAMINA, V.,  
red.; RASITINA, Ye., red.; TIKHONOVA, Ye., red.;  
FREYDMAN, S., red.

[World agriculture] Pirovye sel'khoz. otchety. Moskva,  
Kolos, 1964. 419 p. (1964)

ИВАНОВА, И.Д., проф., доктор эконом.наук, канд. техн. наук  
канд. экон.наук

Way for increasing labor productivity in grain production  
exemplified by the collective farm in Znamenka Territory of Ukr.  
ISSN no. 0013-225 164.

В Кафедра экономик' кол'кото khozyaystva kol'k'khoz'ov znanor  
kadenti imeni Timiryazeva.

KUVSHINOV, I. I., prof., doktor ekonom. nauk

Intensification of agriculture and the increase of labor productivity. Izv. TSKHA no.2.11-22 '65. (MIRA 18/9)

1. Kafedra ekonomiki sel'skogo khozyaystva, Moskovskiy sel'skokhozyaystvennyy akademiya imeni Lenina.

KUVSHINOV, I.S., prof., doktor ekonom. nauk; LOVKOV, Ya.A., dotsent;  
MERZLOV, V.K., assistant

Evaluating the economic effectiveness of the use of mineral  
fertilizers in agriculture. Izv. TSKHA no. 1:3-11 '65  
(MIRA 19:1)

1. Kafedra ekonomiki sel'skogo khozyaystva Moskovskoy sel'sko-  
khozyaystvennoy ordena Lenina akademii imeni Timiryazova.

KUVSHINOV, K.

Toward new boundaries. NTO 3 no. 1:7,9,14,16,22,24,39,46  
Ja '61. (MIRA 14:2)  
(Agricultural machinery)

KULIKOV, Vladimir Ivanovich, kand. ist. nauk; KOZLOVA, L.A., st.  
nauchnyy sotr., red.; KUVSHINOV, K., red.; KUZNETSOVA, A.,  
tekh. red.

[Contribution of the residents of Moscow to the reclamation  
of virgin lands]Vklad moskvichei v osvoenie tselinnykh zemel'.  
Moskva, Mosk. rabochii, 1962. 89 p. (MIRA 16:1)  
(Reclamation of land)

BONAREV, N., red.; KUVSHINOV, K., red.; KUZNETSOVA, A., tekhn. red.

[How we carry out the resolutions of the party congress]  
Kak my vypolniaem reshenia partiinogo s"ezda. Moskva,  
Mosk. rabochii, 1962. 110 p. (MIRA 16:3)  
(Efficiency, Industrial) (Industrial management)



MIKHNEV, Mikhail Mikhaylovich; LEVITSKIY, V.S., kand. tekhn. nauk,  
dots., retsenzent; KUVSHINOV, K.A., dots., red.; BELYAYEVA,  
L.A., red. izd-va; NOVIK, A.Ya., tekhn. red.

[Mechanical drawing]Chtenie mashinostroitel'nykh chertezhei.  
Moskva, Ovorongiz, 1962. 172 p. (MIRA 15:10)  
(Mechanical drawing)

SECRET

1. The following information was obtained from a source who has provided reliable information in the past.

2. The source has provided information that is of a confidential nature and is being provided to you for your information only.

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KUVSHINOV, M.I.; MIKHEYEV, V.P., assistant

Better transient clips are needed for the contact line system. Elek.i tepl.tiaga 4 no.1:26-27 Ja '60.  
(MIRA 13:4)

1. Ispolnyayushchiy obyazannosti nachal'nika otdela ekspluatatsii sluzhby elektrifikatsii i energeticheskogo khozyaystva Omskoy dorogi (for Kuvshinov). 2. Kafedra "Energosnabzheniye zheleznykh dorog" Tomskogo elektromekhanicheskogo instituta inzhenerov zheleznodorozhnogo transporta (for Mikheyev).  
(Electric railroads--Wires and wiring)

SHILKIN, P.M.; ZEL'VYANSKIY, Ya.A.; SIBAROV, Yu.G.; KUSTOV, V.M.;  
TSYKHMAN, A.I.; KUVSHINOV, M.I.; SHIPAREV, Yu.A.; TYURNIN,  
G.A.; AVSTREYKH, L.D.; BAKANOV, N.N.; KHITROV, F.A., tekhn.  
rod.

[Safety engineering regulations for operating the contact  
networks of d.c. electrified railroads]Pravila tekhniki bez-  
opasnosti pri ekspluatatsii kontaktnoi seti postoiannogo to-  
ka elektrifitsirovannykh zheleznykh doroz. Moskva, 1962.  
(MIRA 15:7)  
128 p.

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye elektrifi-  
katsii i energeticheskogo khozyaystva. 2. Zamestitel' na-  
chal'nika tekhnicheskogo otdela TsE Ministerstva putey  
soobshcheniya (for Shilkin). 3. Technicheskiy otdel TsE Mi-  
nisterstva putey soobshcheniya (for Zel'vyanskiy). 4. TSen-  
tral'nyy komitet profsoyuza rabochikh zheleznodorozhnogo  
transporta (for Sibarov). 5. Nauchno-tekhnicheskii sovet Mi-  
nisterstva putey soobshcheniya (for Kustov). 6. Sluzhba  
elektrifikatsii i energeticheskogo khozyaystva Odesskoy zhe-  
leznoy dorogi (for Tsykman). 7. ECh Yuzhno-Ural'skoy zheleznoy  
dorogi (for Kuvshinov). 8. ECh Moskovskoy zheleznoy dorogi  
(for Segala, Shiparev, Tyurnin). 9. ECh Oktyabr'skoy zhelez-  
noy dorogi (for Avstreykh). ECh Moskovskoy zheleznoy dorogi  
(for Bakanov). (Electric railroads—Safety regulations)

KUV'SHINOV, N.I.

Self-supervision of students during the initial stage of industrial training [with summary in English]. Vop. psikhol. 4 no.1:107-116 (MIRA 11:3)  
Ju-J '58.

1. Kafedra pedagogiki i psikhologii Tomskogo gosudarstvennogo pedagogicheskogo instituta.  
(Employees, Training of)

IVSHINOV, N.I.

Solution of practical problems in work projects by primary school pupils. *Voprosy psichol.* 5 no. 4:42-52 July 1969. (HR: 10:11)

1. *Teoriya podrobnosti i kognitivnogo učeniya.*  
(Learning, Psychology of)

KUVSHINOV, N.I.

Influence of repeated exercises on the self-control of pupils in industrial training. Vop.psikhol. 7 no.2:17-22 Mr-Ap '61. (MIRA 14:6)

1. Tomskiy gosudarstvennyy pedagogicheskiy institut.  
(Manual training—Psychological aspects) (Self-control)

KUVSHINOV, N.I.

Solution of work problems from memory without reliance on models.  
Vop. psikhol. 7 no.6:55-62 N-D '61. (MIRA 15:1)

1. Pedagogicheskiy institut, Tomsk.  
(Problem solving)



KUVSHINOV, P., mayor

Political training is at the center of attention of the party organization. Komm. Vooruzh. Sil 3 no.14:44-47 31 '63.

MI 10:44

1. Propagandist politicheskogo otdela.

KUVSHINOV, S., starshiy instruktor

Activity of the House of Technology has been discussed. NTO 3 no.3:56  
Mr '61. (MIRA 14: 3)

1. Vsesoyuznyy sovet nauchno-tekhnicheskikh obshchestv.  
(Kharkov--Technology-- Information services)

POLYAKOV, V., inzh.; ROZENBERG, V., inzh.; KUVSHINOV, S., starshiy inzh.;  
GULIN, G., tekhnicheskiy inspektor (Serov, Sverdlovskoy oblasti);  
GERCHIKOV, I., vrach

Technical information. Okhr.truda i sots.strakh. 5 no.3:30-33  
Mr '62. (MIRA 15:4)

1. Byuro ratsionalizatsii i izobretatel'stva fabriki "Izoplit",  
g. Sverdlovsk (for Polyakov). 2. Otdel izobretatel'stva  
tekhnicheskogo upravleniya Ministerstva rechnogo flota RSFSR (for  
Rozenberg). 3. Vsesoyuznyy sovet nauchno-tekhnicheskikh obshchestv  
(for Kuvshinov).  
(Technological innovations) (Safety appliances)

KUVSHINOV, S., inzh.

Cooperation. Izobr. i rats. no. 12:31 D '58.  
(Kiev--Power tools)

(MIRA 11:12)

KUVSHINOV, S., inzh.

Use electronic equipment in industrial production. ITO  
no.5:31 My '59. (MIRA 12:8)  
(Electronic control)

KUVSHINOV, S., inzh.

New system for conveying materials in foundry shops. MTO  
no.9:53 S '59. (MIRA 13:1)  
(Foundry machinery and supplies)

KUVSHINOV, S., inzh.

Promotion of advanced techniques. NTO no.12:30 D '59 (MIRA 13:3)  
(Kiev--Road machinery industry)

KUVSHINOV, S., inzh.

M.L.Novikov's gears. WFO 2 no.2:40-41 P '60. (MIRA 13:5)  
(Gearing)



KUVSHINOV, S., inzh.

First along the way. NTO 2 no.8:37-38 Ag '60. (MIRA 13:10)  
(Baku--Railroads--Cars)

KUVSHINOV, S.

Inspection is completed; inspection continues. NTO 6 no.2:  
17-19 F '64. (MIRA 17:4)

1. Uchenyy sekretar' smotrovoy komissii Vsesoyuznogo soveta  
nauchno-tekhnicheskikh obshchestv.

KUVSHINOV, S.I.

Improving the method of checking angular measures with the APU-2  
instrument. Iss.tekh. no.10:16 0'60. (MIRA 13:10)  
(Goniometers)

KUVSHINOV, S.I.

Seminar on measuring equipment. Izv.tekh. no.9:63 S '62.  
(Measuring instruments)

*Kuvshinov*

AUTHOR: Kuvshinov, S.S., Engineer

117-3-27/26

TITLE: For Civilized Utilization of Equipment (Za kul'turnuyu eks-pluatatsiyu oborudovaniya)

PERIODICAL: Mashinostroitel', 1958, # 3, p 47-48 (USSR)

ABSTRACT: The author lists some conditions prevailing at various plants. In the Mechanical Shop No. 2 of the Leningrad Machine Building Plant imeni Karl Marx there was no lubricant in lubricators of many machine tools, no wicks in some wick lubricators, some lubricators were clogged with dirt and metal chips; the guides of a "Liberty" planer of this shop were badly scarred in 1955 and again in 1956 because of missing lubrication; a grinder is mounted next to new gear cutting machines. Frequently grinding machines with emery wheels, without any exhaust devices for abrasive dust, are installed next to expensive machines.

He then mentions some devices used at some plants for shielding parts of machine tools and stresses the need for these in view of the extending production of high-precision machine tools.

The All-Union Scientific-Technical Society of Machine Building Industry arranged in 1955 a conference on advanced

Card 1/2

, For Civilized Utilization of Equipment

117-3-27/28

methods of repair and maintenance of machines and tractors of MTS and sovkhoses, as well as regional conferences on problems of machine longevity. The author points out that the Society must participate in research work on protective means for machine tools, improved lubrication systems, and effective means for keeping the work places free of dust.

AVAILABLE: Library of Congress

Card 2/2

KUVSHINOV, S.S.

Using compressed wood. Mashinostroitel' no.4:44 Ap '62.  
(MIRA 15:5)  
(Wood, Compressed)

KUVSHINOV, Ya.

Trade union budget for 1959. Sov.profsoiuzy 7 no.9:34-36  
My '59. (MIRA 12:8)

1. Predsedatel' Revisionnoy komissii Vsesoyuznogo tsentral'nogo  
soveta profsoyuzov.  
(Trade unions--Finance)



KUVSHINOV, Ya.

Glorious pages of history ("The history of the Slavic  
labor movement," 1848-1918 by M.Gosiorovsky . Reviewed by  
Ia.Kuvshinov. Sov.profsoiuzy 7 no.24:57-58 D '59.  
(MIRA 12:12)

(Czechoslovakia--History)

KUVSHINOV, Ya.

Important lever for assisting innovators ("Permanent industrial  
conferences in plants"). Izobr. i rats. no.11:48-49 II '60.  
(MIRA 13:10)

(Technological innovations)

KUVSHINOV, Ya.

"Do the workers participate in the profits under capitalism" by  
Gerhart Hiller. Reviewed by IA.Kuvshinov. Sov.profsoliuzy 16  
no.12:60-61 Je '60. (MIRA 13:6)  
(Labor and laboring classes)  
(Profit sharing)  
(Hiller, Gerhart)

KUVSHINOV, Ya.

Keep strictly within the limits of your budget. Okhr.truda i  
sots.strakh. 5 no.3:12-13 Mr '62. (MIRA 15:4)

1. Predsedatel' revizionnoy komissii Vsesoyuznogo tsentral'nogo  
soveta professional'nykh soyuzov.  
(Insurance, Social---Auditing and inspection)

KUVSHINOV, Ya.

Pennies like to be counted. Sov.profsoiuzy 18 no.23:28-29 D '62.  
(MIRA 15:12)

1. Predsedatel' revizionnoy komissii Vsesoyuznogo tsentral'nogo  
soveta professional'nykh soyuzov.  
(Trade unions--Auditing and inspection)

KUVSHINOV, Ya.

"Economic problems of automation in the United States" by John  
Wheeler. Reviewed by IA.Kuvshinov. NTO 4 no.12:54-55 D '62  
(MIRA 16:1)  
(United States--Automation--Economic aspects)  
(Wheeler, John)

JULANS, A.Ya., kandidat tekhnicheskikh nauk; KUVSHINOV, Ya.I., kandidat tekhnicheskikh nauk.

Dynamics and economy of operation of the KD-35 tractor on curves.  
Avt.1 trakt.prom no.8124-25 Ag '56. (MLRA 9:10)  
(Tractors)

MANUKOVSKIY, N.F., Geroy Sotsialisticheskogo Truda; SREBRYANSKIY, A.V.,  
kand.tekhn.nauk; KUVSHINOV, Ya.I., kand.tekhn.nauk

Operation of thw MTZ-50 and T-30 tractors in Voronezh Provinces.  
Trakt.i sel'khoz mash. 31 no.9:5-7 S '61. (MIRA 14:10)  
(Voronezh Province--Tractors)



KUVSHINOV, Ya.I., kand.tekhn.nauk; SREBRYANSKIY, A.V., kand.tekhn.nauk;  
GREBNEV, V.P., kand.tekhn.nauk

Experience in operating the T-40 tractor with air cooled engine.  
Trakt. i sel'khoz mash. 32 no.10:5-7 0 '62. (MIRA 15:9)  
(Tractors)

CHERNIKOV, Stepan Andreyevich; KUVSHINOV, Yakov Ivanovich; DMITRIYEV,  
L.A., red.; SHESHNEVA, E.A., tekhn. red.

[Operation of tractors and motor vehicles under winter conditions] Eksploatatsiya traktorov i avtomobilei v zimnikh usloviyakh. Moskva, Izd-vo M-va sel'.khoz. RSFSR, 1963. 77 p.  
(MIRA 16:6)

(Motor vehicles--Cold weather operation)  
(Tractors--Cold weather operation)

GALIMKHANOV, K.G.; KUVSHINOV, Yu.A.; SOKOLOV, N.V.

Semiautomatic device for measuring the elastic limit of wire.  
Izm.tekh. no.8:32-34 Ag '62. (MIRA 16:4)  
(Elastic rods and wires--Measurement)

GALIMKHANOV, K.G.; KUVSHINOV, Yu.A.; SOKOLOV, N.V.

Methods and equipment for the determination of the technical  
elasticity limit of thin spring wire under the effect of torsion.  
Sbor. trud. TSNIICHM no.32:205-208 '63. (MIRA 16:12)

KUVSHINOV, Yu.A.

Increasing the butterfat percentage of Red Steppo cattle.  
Agrobiologiya no.3:389-396 My-Je '65.

(MIRA 18:11)

1. Vsesoyuznyy selektsionno-geneticheskiy institut, g.  
Odessa.

L 04214-67 EWT(1)  
ACC NR: AR6015867

SOURCE CODE: UR/0275/65/000/012/A023/A023

AUTHOR: Kurayev, A. A.; Kuvshinov, Yu. N.

43  
B

TITLE: An approximate kinematic analysis of the nonlinear characteristics of a helltron

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 12A159

REF SOURCE: Sb. Vopr. elektron. sverkhvysok. chastot. Vyp. 1. Saratov, Saratovsk. un-t, 1964, 118-131

TOPIC TAGS: successive approximation, nonlinear motion equation, rectangular waveguide, SHF oscillator, backward wave oscillator

ABSTRACT: A method of successive approximations is developed for the solution of essentially nonlinear equations of electron motion in an E-type helltron-SHF oscillator. These equations under specific conditions were reduced to a system analogous (excluding the sign in the equation of motion) to a corresponding system for linear O-type devices. An analysis of the dependence of the efficiency of the helltron on the current magnitude of the device is performed with the extensive use of the abovementioned analogy in the nonlinear properties of O- and E-type devices. The approximate equations obtained are also applied to an analysis of a resonance BWT (backward-wave tube), i.e., to a narrow-band circuit of increased efficiency and power and a

UDC: 621.385.69

Card 1/2

L 04214-67

ACC NR: ARG015867

backward-wave oscillator with a helical magnetodirected flow of electrons, located in a rectangular waveguide. [ Translation of abstract ] Bibliography of 7 titles. D. Ya.

SUB CODE: 09

Card 2/2 *pla*

L 29535-65 EWT(d)/EWT(1)/SEC(b)-2/EWA(h) Pn-II/P1-I/FJ-I/Pac-I/PeB

ACCESSION NR: AP5005361

S/0109/65/010/002/0379/0383

AUTHOR: Kurayev, A. A.; Kuvshinov, Yu. N.

TITLE: Approximate kinematic analysis of the nonlinear characteristics of a helitron

SOURCE: Radiotekhnika i elektronika, v. 10, no. 2, 1965, 379-383

TOPIC TAGS: helitron, microwave tube, E type tube, BW tube 25

ABSTRACT: The method of successive approximations is used to analyze the characteristics of an E-type BW oscillator — helitron — with these simplifying assumptions: (a) no electrons hit the h-f electrodes, (b) no reflection in the h-f line, (c) very small space charge, and (d) stationary electron trajectories are helical with a constant radius and a small pitch. A set of initial excitation and motion integrodifferential equations is reduced, after five approximations, to a set of algebraic equations whose general solution is presented in the graphic form:

Card 1/2



L 29535-65

ACCESSION NR: AP5005361

$\eta_c/C$  vs.  $1/I_{stat}$ . The theoretical results are verified by experimental data measured at about 2 Gc. Orig. art. has: 4 figures and 14 formulas.

ASSOCIATION: none

SUBMITTED: 20Feb64

ENCL: 00

SUB CODE: EC

NO REF SOV: 004

OTHER: 003

Card 2/2

KUVSHINOVA, A. (Tatarskaya ASSR)

Seeking and finding. Pozh.delo 8 no.7:10-11 J1 '62.

(MIRA 15:8)  
(Tataria--Fire prevention--Inspection)

S/194/62/000/007/061/160  
D295/D308

AUTHORS: Vol'ter, B.V., and Kuvshinova, A.I.

TITLE: Automation of the polymerization of ethylene at the  
Okhtinskiy Chemical Combine

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,  
no. 7, 1962, abstract 7-2-192 a (Vestn. tekhn. i ekon.  
inform., N.-i. in-t tekhn. -ekon. issled. Gos. kom-ta  
Sov. Min. SSSR po khimii, no. 8, 1961, 29-32)

TEXT: The article describes an automatic system for controlling  
the polymerization process of ethylene at high pressures (1500 atm.)  
developed in collaboration with the TsNIIKA and employed at the  
plant. The system makes exclusive use of pneumatic devices. In addi-  
tion to standard automatic-control devices, pneumatic logic ele-  
ments are used. The system accomplishes the following functions:  
stabilization of the main parameters of the process, logic control  
of the operation of the polymerization sleeve-reactor and separator  
and failure-protection interlocking. A special pneumatic generator  
maintains periodic oscillations of pressure in the reactor, which.  
Card 1/2

Automation of the polymerization ...

S/194/62/000/007/061/160  
D295/D308

favors a normal course of the reaction. 4 figures. [Abstracter's  
note: Complete translation.]

Card 2/2

GOLOVANOV, O.V., inzh.; KUVSHINOVA, A.I., inzh.; SHONENBAKOV, Ye. Ye., inzh.

Automatic production of polyethylene. Moxn. i avtom. proizv. 17 no.  
4:13-16 Ap '63. (MIRA 17:9)

YEPENOV, Yu.I., inzh.; KUMCHINOV, A.I., inzh.; S. F. YAN, A.I., inzh.

Automatic emergency blocking system of the process of ethylene  
polymerization. Mekh. i avtom. proizv. 18 no.9:24-25 S. 1974.  
(MIRA 17:11)

KUVSHINOVA, K.V.

All-Union Conference on Climatology.  
M-D '57.

Izv. AN SSSR Ser. geog. no. 6:83-87  
(MLRA 6:12)  
(Climatology--Congresses)

KUVSHINOVA, K.V.

8.3-50  
 Kuvshinova, K. V. Itogovaya sessiya uchenogo soveta Glavnoi Geofizicheskoi Observatorii  
 551.5(372.4)  
 [Observatory] Akademiya Nauk SSSR, Ser. Geogr., No. 3:84-86, 1955. DLC. The ends  
 minutes of a final session Jan. 18-22, 1955 at which achievements and activities of the preceding  
 year are reviewed and summarized. Besides the coworkers of the Observatory and of the  
 Hydro-meteorological Service it was attended by representatives of various universities and  
 institutes (Arctic, Geophysical, Geographical, Plans Institute). The most important papers  
 read and discussed at the session were: Lufkhtman, D. I., Theory of transformation of air  
 masses and its application. Kucheev, N. V., Modern methods of investigation of the lower  
 air layer. Varentsov, P. A., Investigation of the temperature and wind regime of the lower  
 1 km thick-air layer. Other reports concerned the radiational properties of clouds, the study  
 of moisture exchange, etc. A new world map of the aridity index was presented. *Abstract*  
 Meetings: 1. Seminars 2. Central Geophysical Observatory, Leningrad, meetings.—A. M. P.



KUVSHINOVA, K. V.

USSR/Meteorology - Weather changes

Card 1/1 Pub. 86 - 17/36

Authors : Kuvshinova, K. V., Cand. Physicomath. Sc.

Title : Peculiarities of the synoptic conditions of the summer of 1954

Periodical : Priroda 44/6, 98 - 101, Jun 1955

Abstract : An analysis is made of the unusual weather conditions which prevailed in Europe during the summer of 1954. Floods in Germany and Austria contrasted with record hot, dry days in Russia. A study of the air currents responsible for changes in the weather shows that cyclones from the Atlantic or Mediterranean areas in the summer of 1954 moved more slowly or shifted their direction more to the northwest. Maps; table.

Institution : .....

Submitted : .....

KUVSHINOVA, K.V., kandidat fiziko-matematicheskikh nauk (Moskva)

Scientific session in memory of A.I. Voeikov, Priroda 45 no.6:111  
Je '56. (MLRA 9:8)

1. Institut geografii Akademii nauk SSSR.  
(Voeikov, Aleksandr Ivanovich, 1842-1916)

KUVSHINOVA, K.V., kandidat fiziko-matematicheskikh nauk.

Air temperature in the region around Moscow. Izvestia AN SSSR, 1957, 7:124-125  
(ISSN 10:8)

1. Institut geografii Akademii nauk SSSR, Moskva.  
(Moscow Province--atmospheric temperature)

KOLOBKOV, Nikolay Vasil'yevich [Kolobkov, M.V.]; KUVSHINOVA, K.V., kand.  
fiz.-matem.nauk, retsenzent; SHEPORTYUK, V.I., red.; VOLKOVA,  
E.K., tekhn.red.

[The atmosphere and life in it] Povitrianyi okean i ioho zhyttia.  
Perekl. z dr.perer, i dop. vyd. geogr. Kyiv, Derzh.uchbovo-  
pedagog.vyd-vo "Radians'ka shkola," 1958. 232 p.

(Meteorology)

(MIRA 14:4)

*Handwritten notes:*  
A. N. Geller, S. Yu. Geller, S. Yu. Geller

GELLER, S.Yu.; ZIMINA, R.P.; KEMMERIKH, A.O.; KUNIN, V.N.; KUVSHINOVA, K.V.;  
MURZAYEV, E.M., doktor geograf.nauk; RYAZANTSEV, S.N.; FORMOZOV,  
A.N.; FREYKIN, Z.G.; CHUBUKOV, L.A.; ZABIROV, R.D.; KOROVIN, Ye.P.;  
ROZANOV, A.N.; RODIN, L.Ye.; RUBTSOV, M.I.; SPYGINA, L.I., red.  
izd-va; POLENOVA, T.P., tekhn.red.

[Central Asia; its physical geography] Sredniaya Aziya; fiziko-  
geograficheskaya kharakteristika. Moskva, 1958. 647 p. (MIRA 11:6)

1. Akademiya nauk SSSR. Institut geografii.
  2. Institut geografii Akademii nauk SSSR (for Geller, Zimina, Kemmerikh, Kunin, Kuvshinova, Murzayev, Ryazantsev, Formozov, Freykin Chubukov).
  3. Akademiya nauk Kirgizskoy SSR (for Zabiroy).
  4. Akademiya nauk Uzbekskoy SSR (for Korovin).
  5. Pochvennyy institut AN SSSR (for Rozanov).
  6. Botanicheskiy institut AN SSSR (for Rodin).
  7. Akademiya nauk Kazakhskoy SSR (for Rubtsov)
- (Soviet Central Asia--Physical geography)

647-1110011. K. T.

AUTHOR: None Given 26-58-4-44/45

TITLE: Nature's Calendar (Kalendar' prirody)

PERIODICAL: Priroda, 1958, Nr 4, pp 123 - 126 (USSR)

ABSTRACT: 1) In the article "The Month of the Decisive Approach of Spring" (Mesyats reshitel'nogo nastupleniya vesny), K.V. Kuvshinova, Candidate of physico-mathematical sciences of the Institut geografii Akademii nauk SSSR (Moskva) (Institute of Geography of the USSR Academy of Sciences - Moscow) points out that April is the month when spring begins in all parts of the USSR with more or less intensity. 2) "The First Blossoming Trees" (Drevesnyye pervotsvety) by V.I. Dolgoshov of the Institut geografii Akademii nauk SSSR (Moskva) (Institute of Geography of the USSR Academy of Sciences (Moscow) is an article dealing with the nut tree and the alder tree which show the earliest blossoms in spring. 3) "April in Tartary" (April' v Tatarii) by N.V. Lapalkev deals with the beginning of spring in the Tatar Ask. 4) "In the South of the Taiga Zone" (Na yuge Tayezhnoy zony) by L.A. Nevskiy of Nerekhta, Kostromskaya Oblast' the author describes the development of spring in the Nerekhta district in April. 5) "Spring in the

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Nature's Calendar

26-58-4-44/45

Kara-Kums" (Vesna v Kara-Kumakh) is written by Professor N.T. Nechayeva, Member-Correspondent of the Turkmen SSR Academy of Sciences (Ashkhabad) in which the characteristics of springtime in Kara-Kum are described. 6) "The First Pollinating Insects" (pervyye nasekomye opyliteli) is an article by E.V. Kamilov, Candidate of Biological Sciences of the Institut geografii Akademii nauk SSSR (Moskva) (Institute of Geography of the USSR Academy of Sciences (Moscow) dealing with wild bees and bumble bees, the first pollinating insects in early spring near Moscow.

AVAILABLE: Library of Congress

Card 2/2 1. Spring-USSR

03/13/2001 04/03/06  
AF53/AD34

AUTHOR: Kuvshinova, K.V.

TITLE: Scientific Conference on the Problems of the General Circulation of the Atmosphere

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geograficheskaya: 1960, No. 4, pp. 142 - 146

TEXT: A scientific conference on the general circulation of the atmosphere was held under the auspices of the TsIF GUUMS on March 14 - 18, 1960. At the conference participated over 250 representatives of scientific institutes. V.A. Ruyev, Professor and Director of the TsIF opened the session by pointing out the importance of solving the problems concerning air circulation to develop a method of long-term weather forecast. The following papers were presented: A.L. Kats (TsIP) "Macrosynoptic Investigation of the General Circulation of the Atmosphere and Long-Term Forecasts". The method of long-term forecasts fails to make sufficient use of the information on planetary circulation. A.A. Nils (Arctic and Antarctic NII): "Results of Investigations of Fluctuations of Many Years Standing of the General Circulation of the Atmosphere Applicable to the Problem of Super-Long-Term Hydrometeorological Forecasts". Making use of the types of circulations

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S/010/00/000/004/001/006  
A053/A029

Scientific Conference on the Problems of the General Circulation of the Atmosphere

cause of cyclonic and anticyclonic activity. O.A. Drozdov (GGO) "Secular Course of Rain and Snow Falls and Fluctuations in Atmospheric Circulation". A.L. Kats "Multiannual Changes of General Circulation of the Atmosphere and Certain Aspects of Long - Term Weather Forecasts". The reports were followed by a lively discussion; all speakers (K.I. Kashin, M.S. Eygenon, V.G. Shishkov, etc.) came forward with additional suggestions. On the question of "climatological standard" Ye.S. Rubinshteyn and G.Ya. Vangengeym contradicted B.L. Dzerdzeyevskiy, considering that epochal standard is only suitable for specific forms of investigations. The second part of the conference was devoted to reports on the circulation of air in the troposphere and stratosphere. The following papers were presented: Kh.P. Pogosyan (TsIP) "New Data on Temperature Rate and Atmospheric Circulation in the Stratosphere". A.A. Pavlovskaya (TsIP) "Inner - Seasonal Changes in the Atmospheric Circulation in the Upper Troposphere". G.P. Gushchin (GGO) "Quantity of Ozone Contained in the Atmosphere and Its Fluctuation Under the Influence of Radiation and Jet Streams". S.A. Mashkovich (TsIP) presented in the third part of the program a summary of the reports on the theory of general circulation of the atmosphere. M.V. Stovas (Dnepopetrovskiy gornyy institut - Card 3/7

S/ 010/60/000/004/001/006  
A053/A029

Scientific Conference on the Problems of the General Circulation of the Atmosphere

Dnepropetrovsk Mining Institute) spoke on the "Theory of Critical Parallels". The role of critical parallels manifests itself not only in geotectonics and in the structure of crystals, but also in the general circulation of the atmosphere. R.F. Usmanov on "The Influence of the Earth's Rotation on the General Circulation of the Atmosphere". L.P. Rakipova (GGO) on the results of her calculation concerning the transfer of heat and humidity between the Northern and Southern hemispheres. G.V. Gruz (SA NIOMI) on the question of macro - turbulent interchange in the atmosphere over the Northern hemisphere. A.V. Sadovnikov (Leningradskaya voyenno - vozdushnaya inzhenernaya akademiya - Leningrad Military Aviation Engineering Academy) reported on certain new characteristics of the general atmospheric circulation in non - tropic latitudes. In the report of G.M. Tauber (GOIN) certain questions concerning correlation between atmospheric processes of the Northern and Southern hemispheres were elucidated. M.Ye. Berlyand, N.N. Romanov, V.I. Gubin, etc. considered the conclusions drawn by Stovas premature. The fourth part of the program was composed of reports on general atmospheric circulation and solar activity. M.S. Eygenon reported on "Solar Activity and General Circulation of the Atmosphere". L.R. Rakipova (GGO) spoke on investigations per-  
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S/010/60/000/004/001/006  
A053/A029

Scientific Conference on the Problems of the General Circulation of the Atmosphere

taining to the effects produced by solar activity on the general atmosphere circulation. L.G. Duginova reported on "Heliocausality of Certain Heliometric Phenomena in the European Part of the USSR". B.P. Yakovleva on the "Influence of Ionospheric Disturbances on Atmospheric Circulation". I.V. But stated that the connection between circulation and solar activity is so complicated, that it is still a long way to making practical use of this relationship. The fifth part of the program was devoted to "Regional Singularities of General Atmospheric Circulation". Part of the reports contained results of investigations during the IGY. Kh.P. Pogosyan reported on Jet streams in the Southern hemisphere. P.D. Astapenko on "Questions Pertaining to the General Circulation of the Atmosphere Over the High Latitudes of the Southern Hemisphere". S.F. Khromov on "The Equatorial Zone of West Winds" and P.F. Usmanov on "Peculiarities of Weather and of Atmospheric Circulation in the Tropics and on the Equator". Other reports made by N.V. Kolobov, P.Sh. Imaneyeva, A.I. Mishkarev, Ye. Edzellishvili, N.N. Ponomarenko concerned results of investigations into peculiarities of circulation over different areas. O.V. Deminev reported on "The Influence of the Indian Monsoon on

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S/010/60/000/004/001/006  
A053/A029

Scientific Conference on the Problems of the General Circulation of the Atmosphere.

the Atmospheric Processes and on the Weather of Middle Asia". G.K. Il'inskiy reported on "The Basic Features of Atmospheric Circulation During the Summer Over the Temperate Latitudes of Eastern Asia". V.V. Solov'kin, Academician, devoted his report to the question of hydrodynamic resonance in the streams of the summer monsoon, analysing the question of a supergeostrophic wind developing over a water expanse and the changes occurring in the vertical and horizontal components of the wind velocity over the beach. D.A. Drogaytsev (DIP) spoke on the results of his work on multiannual fluctuation in the field from  $\frac{500}{1000}$  as an argument for long - term forecasts. Ye.S. Rubinshteyn (RBO) dwelled on the question concerning the connection between the anomalies of the average monthly temperatures existing in various parts of the Soviet Union. Yu B. Kiratov reported on the "Organization of the Hydrometeorological Service in Great Britain". The conference closed with a resolution, which marked the achievements and the shortcomings of the investigations into the general circulation of the atmosphere and emphasized the necessity of continuing investigations in various zones of circulation. Investigations should be carried out on a geophysical basis; more attention should be given to

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03/13/2001/001/006  
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Scientific Conference on the Problems of the General Circulation of the Atmosphere

the change of interlink between different physical factors and to developing investigations on the basis of helio - tropospheric connections. The request was addressed to GUOMS for calling a second conference in 1962.

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Card 7/7

EUVSHINOVA, K.V., kand.fiz.-matem.nauk

Forty years of Soviet meteorology. Priroda 50 no.12:55-56. U  
'61. (MIRA 14:12)

1. Institut geografii AN SSSR, Moskva.  
(Meteorology--Congresses)

MOISEYEV, A.P.; KUVSHINOVA, K.V., kand.geograf.nauk

December in Moscow. Priroda 50 no.12:123-124 D '61.

(MIRA 14:12)

1. Moskovskiy filial Geograficheskogo obshchestva SSSR (for Moiseyev). 2. Institut geografii AN SSSR, Moskva (for Kuvshinova).  
(Moscow--Winter)



KUVSHINOVA, K.V.

Changes in the precipitation following the total utilization of  
the Amu Darya waters for irrigation purposes. Izv. AN SSSR.  
Ser. geog. no. 2:45-49 Mr-Apr '64. (MIRA 17:5)

1. Institut geografii AN SSSR.

ARMAND, D.L.; BUDAGOVSKIY, A.I.; VENDROV, S.L.; VITVITSKIY, G.N.;  
GELLER, S.Yu.; GEPASIMOV, I.P.; DZEPDZEYEVSKIY, B.L.; GIVKH, I.S.;  
GRIGOR'YEV, A.A.; DANILOVA, N.A.; ZHIVAGO, A.V.; KEMMERIKH, A.G.;  
KRAVCHENKO, D.V.; KUVSHINOVA, K.V.; MEDVEDEVA, G.P.; RAUNER, Yu.L.;  
CHUBUKOV, L.A.

Aleksandr Petrovich Gal'tsov, 1909-1965; an obituary. Izv. AN  
SSSR. Ser. geog. no.6:145 N-D '65. (MIRA 18:11)

KUVSHINOVA, L.V. (Leningrad)

Hygienic evaluation of the microclimate of the main shops  
of mechanical laundries. Gig. truda i prof. zab. 4 no.1:  
44-46 Ja '60. (MIRA 15:3)

1. Sanitarno-gigiyonicheskiy meditsinskiy institut, Leningrad.  
(LAUNDRIES--HYGIENIC ASPECTS)

KUVSHINOVA, L.V.

Heat exchange in workers in the ground shops of commercial laundries.  
Trudy ISGMI no.68:76-85 '61. (MIPA 15:11)

1. Kafedra kommunal'noy gigiyeny Leningradskogo sanitarno-gigiyeniche-  
skogo meditsinskogo instituta (zav. kafedroy - prof. A.I.Shtreyz).  
(BODY TEMPERATURE)  
(LENINGRAD--LAUNDRY WORKERS--DISEASES AND HYGIENE)

KUVSHINOVA, M.

Sovet sotsial'nogo strakhovaniia. Iz opyta raboty soveta  
sotsial'nogo strakhovaniia Orekhovskogo khlopkhatoburovskogo kombinata im.  
Nikolaevoi (The social insurance council. Experience of the social  
insurance council of the Nikolaeva Cotton Combine in Orekhovo).  
Moskva. Profizdat, 1953. 67 p.

SO: Monthly List of Russian Accessions, Vol. 7 No. 2 May 1954.

VOGULKINA, T.E.; KUVSHINOVA, M.V.

Use of antianemin in pediatric practice. *Pediatrics* 37 no.9:88  
S '59. (MIRA 13:2)

1. Iz kafedry fakul'tatskoy pediatrii Sverdlovskogo meditsinskogo  
instituta.

(ANEMIA)

KUVSHINOV, N. I.

Cholentsov, R. D. and Kuvshinova, N. I. - "The Catalytic cracking of hydrocarbons. Cracking, in the presence of aluminosilicate catalysts, of polymers, also used by phosphoric acid polymerization of butene-butylene and pentene-pentylene fractions," *Uchen. zapiski (Ser. fiz. i khim. Chernyshevskogo)*, Vol. XXI, vyp. khim., 1949, p. 162-53. - Bibliogr. p. 143

SO: U-1000, Sect 53, (Detonic 'Zhurnal' Lykh State, No. 10, 1949)

KURSHINOVA, N. I.

Chemical Abst.  
Vol. 48 No. 4  
Feb. 25, 1954  
Organic Chemistry

V Aromatization of 2,2,3-trimethylbutane on a chromium catalyst. R. D. Oshchepov and N. I. Kurshinova (Saratov State Univ.). *Zhur. Obshch. Khim.* 22, 2181 (1952); cf. preceding abstr.—The previously noted possibility of catalytic aromatization of a hydrocarbon with as few as 4 C atoms in the longest chain was demonstrated in the instance of 2,2,3-trimethylbutane, on  $Cr_2O_3$  on alumina (catalyst A), and on unsupported  $Cr_2O_3$  (catalyst B). Balances of the expts. are: (I) catalyst A, 590°, space velocity 3 l./l. catalyst/hr., duration 15 min.: wt.-% gas 31.3, liquid 37.8, coke 30.9; yield of gas, in moles/100 moles reactant,  $2C_2H_4$ , 70.6,  $2C_2H_2$ , 29.8,  $2C_2H_6$  +  $C_2H_4$ , 15.0,  $2C_2H_4$ , 15.4,  $2C_2H_2$ , 18.8,  $H_2$ , 107.5,  $CH_4$ , 57.0,  $C_2H_6$ , 12.0,  $C_2H_4$ , 3.0,  $C_2H_2$ , 4.8,  $C_2H_6$ , 10.8,  $2C_2H_4$ , 2.8,  $C_2H_2$ , 1.8,  $Me_2CH$ , 11.2, total gas yield 215; mole-% reacted to  $2C_2H_4$  +  $C_2H_6$ , 17, to  $2C_2H_2$  +  $C_2H_4$ , 15, to aromatics 8; (II) A, 580°, 1.2, 23; 52.0, 10.7, 37.3; 110.2, 21.9, 11.2, 13.5, 14.3, 145.0, 67.0, 31.4, 7.9, 7.3, 6.2, 4.5, 5.0, 4.8, 281; 14, 39, 6; (III) A, 530°, 3, 16; 24.4, 63.9, 11.7, 35.8, 17.8, 8.2, 10, 10.8, 59.5, 18.8, 10.8, 3.2, 4.2, 5.8, 2.0, 2.4, 6.4, 114; 10, 14, 5; (IV) B, 560°, 3, 30; 21.4, 74.1, 4.5, 28.8, 22.1, 10.8, —, —, 22.0, —, —, 1.3, —, —, —, 10.0, 74; —, —, 8; (V) B, 580°, 1.6, 50; 39.2, 60.0, 11.8, 85.6, 39.0, 17.1, —, —, 34.0, —, —, 19.2, —, —, —, 11.7, 160; 19, 31, 13; (VI) B, 550°, 1.0, 90; 18.2, 63.6, 18.2, 30, 16.3, 6.6, —, —, 40.0, —, —, 2.0, —, —, —, 7.1, 60; —, —, 10; (VII) B, 510°, 1, 90; 14.9, 72.7, 12.4, 29.6, 3.2, 2.0, —, —, 11, —, —, 1.2, —, —, —, 0.0, 44; —, —, 4. The comps. of the liquid products, in wt.-%, are, (I) unsatd. 70.1, aromatics 20.0, satd. residue 3.0; (II) —, 60.7, —; (III) 79.3, 7.5, 12.2; (IV) 90.0, 10.0, 0.0; (V) 74.4, 24.6, 0.8; (VI) 83.0, 15.0, 0.0; (VII) 93.0, 5.0, 2.0. The comps. of the gaseous products, in vol.-%, (I)  $H_2$ , 50,  $C_2H_4$ , 1.4,  $C_2H_6$ , 5.0,  $C_2H_2$ , 2.2, iso  $C_2H_6$ , 5.2,  $CH_4$ , 26.6,  $C_2H_4$ , 5.6,  $C_2H_6$ , 2.2,  $2C_2H_4$ , 1.3; (II) 51.8, 2.8, 2.2, 1.8, 1.7, 23.6, 11.2, 2.6, 1.0; (III) 1.9, 2.8, 5.8, 2.1, 5.0, 16.5, 9.5, 3.7, 1.7; (V) 21.4, 6.4, 6.9, 3.8, 7.3, 35.7, 13.1, 3.4, 1.3; (IV) 11, 30.3,  $C_2H_4$ , 1.8,  $C_2H_6$  +  $C_2H_4$ , 14.6, iso- $C_2H_6$ , 14.0,  $CH_4$  +  $C_2H_6$  +

5





KUVSHINOVA, N. I.

6  
②  
Aromatization of 2,2,3-trimethyl-1-butene on a chromium catalyst. R. D. Obolentsev and N. I. Kuvshinova, *J. Gen. Chem. U.S.S.R.* 22, 2237-42 (1952) (Engl. translation).  
—See C.A. 48, 1039f. H. L. H.

MUSKENDIA, N.J.

320. CATALYTIC REFINING OF GASOLINES FROM THERMAL CRACKING OVER VOLTA  
VOLA, Gryazev, M.H. and Kuvshinov, M.I. (Instit. Inzhener. Saratov. Univ.  
(Sci. Ann. Saratov Univ.), 1954 (Publ. 1955), 588, 569) abstr. in Ref. Zh.  
Khim. (Ref. J. Chem., Moscow), 1956, (20), 66011. Many more from the state  
bank of the Volga were found in [unclear] *filed*



GRYAZEV, N.N.; KUVSHINOVA, N.I.; TARKHANOVA, L.A.

Depolymerizing action of the Volsk kieselguhr. Zhur.prikl.khim. 29  
no.6:841-847 Jo '56. (MLRA 9:9)

1.Nauchno-issledovatel'skiy institut khimii pri Saratovskom gosudar-  
stvennom universitete.  
(Diisobutylene) (Volsk--Kieselguhr)

KUVSHINOVA, N. I.

*chem*

Depolymerizing activity of Volga Kieselguhr. N. N. Gryazev, N. I. Kuvshinova, and L. A. Tarkhanova. *J. Appl. Chem. U.S.S.R.* 20, 915-18, 1950 (English translation).—See *C.A.* 50, 1725f. H. M. R.

USOV, Yu.N.; SKVORTSOVA, Ye.V.; KUVSHINOVA, N.I.; YELOVATSKAYA, L.A.

Catalytic dehydration of isopentene to isoprene. Zhur.ob.khim.  
27 no.10:2721-2725 0 '57. (MIRA 11:4)

1.Saratovskiy gosudarstvennyy universitet.  
(Isopentene) (Isoprene) (Dehydration)

USCV, Yu.N.; KUVSHINOVA, N.I.; IVANOVA, S.M.

Aromatization of binary alkane-arene mixtures on a platinum catalyst.  
Neftekhimiya 2 no.2:150-153 Mr-Apr '62. (MIRA 15:6)

1. Saratovskiy gosudarstvennyy universitet imeni N.G.Chernyshevskogo  
kafedra tekhnicheskoy khimii i Nauchno-issledovatel'skiy institut  
khimii.

(Hydrocarbons) (Aromatization)



USOV, Yu.N.; KUVSHINOVA, N.I.; IVANOVA, S.M.

Aromatization of binary alkane-cyclane mixtures on a platinum catalyst. Neftekhimiia 2 no.5:666-669 S-0 '62. (MIRA 16:1)

1. Saratovskiy gosudarstvennyy universitet imeni N.G.Chernyshevskogo.  
(Hydrocarbons) (Aromatization)

USOV, Yu.N.; KUVSHINOVA, N.I.

Conversions of 2,2,4-trimethylpentane and n.octane on a  
platinum catalyst. Kin.i kat. 3 no.6:931-936 N-D '62.  
(MIRA 15:12)

1. Saratovskiy gosudarstvennyy universitet imeni  
N.G. Chernyshevskogo.  
(Pentane) (Octane)  
(Platinum catalysts)

GRYAZEV, N.H.; KUVSHINOVA, N.I.

Transformations of 2,4-dimethyl-1,3-pentadiene in the presence  
of aluminosilicates. Uch.zap. SGU 75:71-72 '62. (MIRA 17:3)

U'CHOV, Yu.N.; KUVSHINOVA, N.I.; SHESTOVA, L.S.

Kinetics of the dehydrocyclization of n-heptane and n-octane on an aluminum-platinum catalyst. *Neftokhimiya* 4 no.5:406-409. 6-0 1964.  
(MIRA 19:1)

1. Saratovskiy gosudarstvennyy universitet imeni N.G.Chernyshevskogo i Nauchno-Issledovatel'skiy institut Khimii.

S/189/60/000/003/012/013/XX  
B003/B067

AUTHORS: Tits-Skvortsova, I. N. Danilova, T. A. Kuvshinova N. S.

TITLE: On the Changes of the Individual Sulfur Compounds on the Alumosilicate Catalyst at 300 and 400°C

PERIODICAL: Vestnik Moskovskogo universiteta Seriya 2, Khimiya, 1960, 15, No 3, pp. 61-65

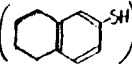
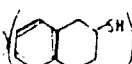
TEXT: The authors studied the changes of various organic sulfur compounds caused by passing them above alumosilicate catalysts at 300 and 400°C. Reference is made to earlier papers of the authors in which the behavior of organic S-compounds at 300°C was studied with the same catalyst under the same conditions. The author of this paper attempted to determine the temperature effect on the catalytic reactions. The results are the following: At 300°C aliphatic S-compounds are divided into two parts each at the S-bond (decyl mercaptan → decene + H<sub>2</sub>S, dinonyl sulfide → nonyl mercaptan + nonene, dinonyl disulfide → 2 nonyl mercaptan). At 400°C these compounds are cracked under the formation of gasoline (boiling interval 35-155°C) with a 44-48% yield. The remaining part consists of

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On the Changes of the Individual Sulfur Compounds on the Alumosilicate Catalyst at 300 and 400°C

S/159/60/000/003/012/013/XX  
B003/B067

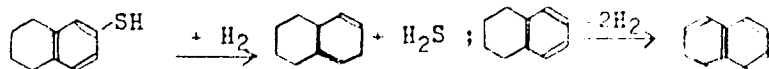
resinification products. At 300°C S-compounds of the naphthene series produce hydrocarbons which can be identified (Reis. 44) under cleavage of H<sub>2</sub>S. Because of the almost quantitative reaction process (76-94%) this class of substances was not studied at 400°C. From among the hydroaromates two isomeric β-thiotetraoles were studied with the SH group

(ar)  and/or in the alicyclic part (ac) . At 300°C the following was obtained from ar: 22% S (as H<sub>2</sub>S), 7% initial substance, 42% tetralin, 28% naphthalene. With ac the following was obtained: 95% S (as H<sub>2</sub>S), 45% tetralin, 40% naphthalene. With ar the following was obtained at 400°C: 98% S (as H<sub>2</sub>S), 24% tetralin, 48% naphthalene. From ac 95% S (as H<sub>2</sub>S), 72% naphthalene were obtained. The authors explain these processes in the following way:

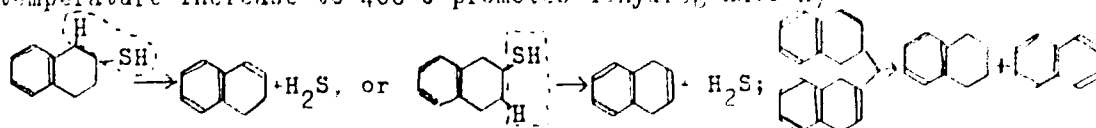
Card 2/4

On the Changes of the Individual Sulfur  
Compounds on the Aluminosilicate Catalyst  
at 300 and 400°C

S/189/60/000/003/012/013/XX  
B003/B067



(temperature increase to 400°C promotes dehydrogenation)



Aromatic S-compounds proved to be the most stable. They are essentially changed only at 500°C (Ref 7). 7) Thiophenol, benzene diphenyl sulfide, benzene, thianthrene, thiocresol, toluene, n,n-ditolyl disulfide, n-thiocresol + toluene. In general it may be said that a temperature increase from 300 to 400°C (and/or 500°C) does not change the kind of the final products but only the quantitative ratios. Zelinskiy is mentioned. There are 1 table and 9 Soviet references.

ASSOCIATION: Moskovskiy universitet, Kafedra khimii nefti (Moscow University, Chair of Petroleum Chemistry)

Card 3/4

On the Changes of the Individual Sulfur  
Compounds on the Aluminosilicate Catalyst  
at 300 and 400°C

S/189/60/000/001/012/013/XX  
B003/B067

SUBMITTED: March 30, 1959



Card 4/4



EL877

53620

S/C72/60/030/C10/018/030  
B001/B066

AUTHORS: Tits-Skvortsova, I. N., Rybnikova, A. A., and  
Kuvshinova, N. N.

TITLE: Synthesis and Catalytic Transformations of  $\alpha$ -Decyl  
Thiophane by Means of an Alumino-silicate Catalyst

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30 No. 10,  
pp. 3316 - 3319

TEXT: The authors synthesized the hitherto unknown  $\alpha$ -decyl thiophane (V) by applying the general method of synthesizing  $\alpha$ -alkyl thiophanes by R. D. Obolentsov and V. G. Bukharov (Ref.1). The present paper describes these data and contact transformations by means of an alumino-silicate catalyst. The following intermediates were obtained:  $\alpha$ -nonyl-furyl carbinol (I); ethyl ester of  $\gamma$ -ketotetradecanoic acid (II); 1,4-tetradecanediol (III); 1,4-dibromo-tetradecane (IV) (which have not been described as yet). They were synthesized in the following way: Compound (I) from furfurole according to Grignard, by the general method of synthesizing alkyl-furyl carbinols (Ref.2); compound (II) by boiling

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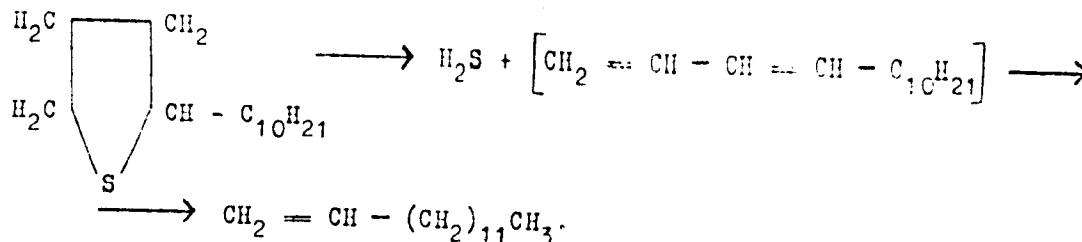
Synthesis and Catalytic Transformations of  $\alpha$ -Decyl Thiophane by Means of an Alumino-silicate Catalyst S/079/60/030/010/018/030  
B001/B066

$\alpha$ -nonyl-furyl carbinol in anhydrous alcohol to which HCl was added (Refs. 2 and 3); compound (III) by reduction of the ethyl ester of  $\gamma$ -ketotetradecanoic acid with lithium-aluminum hydride; compound (IV) by reaction of 1,4-tetradecanediol with dry HBr.  $\alpha$ -decyl thiophane (V)  $\checkmark$  was obtained by reaction of 1,4-dibromo-tetradecane with  $\text{Na}_2\text{S}$  dissolved in alcohol. This reaction offers a good yield and gives a pure end product.  $\alpha$ -decyl thiophane decomposes on an alumino-silicate catalyst at  $300^\circ\text{C}$  to give hydrogen sulfide and tetradecene-1. Unchanged  $\alpha$ -decyl thiophane was found in the catalyzate. The cleavage of  $\alpha$ -decyl thiophane may be illustrated by the following Scheme:

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Synthesis and Catalytic Transformations of  $\alpha$ -Decyl Thiophane by Means of an Alumino-silicate Catalyst S/070/60/330/010/018/030  
2001/2066



The behavior of cyclic sulfides thus differs from that of aliphatic sulfides, which form mercaptanes and alkenes under the same conditions of catalysis (Ref.4). There are 6 references: 5 Soviet. ✓

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: October 26, 1959

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S/081/62/000/010/045/085  
B16A/B180

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Tits-Skvortsova, I. N., Danilova, T. A., Kuvshinova, N. N.

**TITLE:**

Transformation of organosulfur compounds at 300 and 400°C  
in the presence of an aluminosilicate catalyst

**PERIODICAL:**

Referativnyy zhurnal. Khimiya, no. 10, 1962, 189,  
abstract 10Zh99 (Sb. "Khimiya seraorgan. soyedineniy,  
soderzhashchikhaya v neftyakh i nefteproduktakh.  
v. 4". M., Gosoptekhnizdat, 1961, 132-155)

**TEXT:** The transformation of organosulfur compounds of various classes  
was studied on an aluminosilicate catalyst at a temperature of 400-500°C.  
In the case of  $C_9H_{19}SH$ ,  $C_9H_{19}SC_2H_5$  and  $C_9H_{19}SSC_2H_5$  cracking accompanied  
by formation of the gasoline fraction is the principal reaction at 400°C.  
In the case of ar- and ac-β-thiotetralols on an aluminosilicate catalyst  
at 400°C no processes occur other than those which take place at 300°C.  
When aromatic organosulfur compounds are brought into contact with an  
aluminosilicate catalyst and the temperature raised to 500°C, only the  
quantitative ratio of the reaction products varies, but not the direction

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