

AUTHOR: Sokolov, B.L., Deputy-Delegate SOV-28-58-4-31/35

TITLE: Checking the Quality of Confectionary Products (Proverka kachestva konditerskikh izdeliy)

PERIODICAL: Standartizatsiya, 1958, Nr 4, pp 88 - 89 (USSR)

ABSTRACT: State control laboratories carried out inspections of confectionary enterprises to verify whether the "RTU" state standards, introduced in the RSFSR, have been observed. It was stated that in a great number of enterprises, RTU-standards were not complied with, resulting in a deficient quality of products. The article contains various examples of observed deficiencies. Measures to improve the quality of confectionary products were taken by the State laboratories together with local organizations.

ASSOCIATION: Komitet standartov, mer i izmeritel'nykh priborov pri Sovete Ministrov, RSFSR (Committee of Measurements, Standards and Measuring Instruments of the Council of Ministers, RSFSR)

1. Food--Production 2. Food--Quality control

Card 1/1

AUTHOR: Sokolov, B. L., Engineer SOV/28-59-1-9/29

TITLE: The Inspection of the Maintenance of Standards and Technical Regulations (Kontrol'za soblyudeniym standartov i tekhnicheskikh usloviy)

PERIODICAL: Standartizatsiya, 1959, Nr 1, p 33 ~ 36 (USSR)

ABSTRACT: The Inspection of enterprises, which produce bread and confectionery, fish products, cheese, staple fiber and viscose fabrics, jacquard blankets, furniture, enamelware, meat products and children's garments, was carried out by the laboratories. The defective quality of the above mentioned products, as well as the defective organization of the inspection itself, is commented on here. The inspection however, resulted in an improvement in production quality and modernization of a number of plants. The Krasnoyarsk ~~sovnarkhoz~~ decided to construct seven new cheese plants, and to reconstruct 9 dairy plants. The reconstruction of the Blagoveshchensk Confectionery plant was settled; it is planned to replace the old equipment by new machinery. New equipment was installed in the bread plants in Arkhangelsk, Penza, Tambov. There is 1 Soviet reference.

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The Inspection of the Maintenance of Standards and Technical Regulations SOV/28-59-1-9/29

ASSOCIATION: Upravleniye upolnomochennogo Komiteta standartov, mer i
izmeritel'nykh priborov pri Sovete Ministrov RSFSR
(The Administration of ~~the Committee~~ the Committee of
Standards, Measures and Measuring Devices at the RSFSR
Council of Ministers)

Card 2/2

9(6)

SOV/115-59-2-3/38

AUTHOR: Sokolov, B.L.

TITLE: Preparations for the Change-Over to New Forms of State Supervision of Measuring Techniques (Podgotovit'sya k perekhodu na novye formy gosudarstvennogo nadzora za izmeritel'noy tekhnikoy)

PERIODICAL: Izmeritel'naya tekhnika, 1959, Nr 2, pp 7-9
(USSR)

ABSTRACT: In connection with the decision of the Committee for Standards, Measurements and Measuring Instruments to postpone implementation of regulations 12-58, the main task of the Committee and its local organs during 1959 is to take the necessary preliminary steps for the change-over to new forms of national supervision. The author feels - on the subject of improving the material-technical bases - that although considerable improvements occurred during the Three Year Plan 1955-1958, especially by supplying new equipment to laboratories, a great deal remains to be accomplished. The plan has

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of Measuring Techniques

not been fully implemented, and this endangers successful realization of the projected new State supervision. The currently operative system of stationary control should be replaced by completely equipped, portable laboratories. At present, there are only experimental units in operation. The period 1959-1962, fixed by the Committee, for producing such laboratories is too long and impractical. Moreover, work on design development has not yet begun. Instructions on measuring errors must also be revised. Inspectors doing this job must be allowed much more initiative and, in any case, be able to request replacements for measuring instruments. Inspectorates must establish a supply of spare instruments which may be loaned out to enterprises, in order to avoid production difficulties during the period of control. The situation in repair shops must be improved by expanding the nomenclature system. The hitherto operative system, where repair facilities are not readily available and the inferior quality of equipment is

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consequently tolerated, must be removed. Repair service stations should be made more specialized. Nevertheless, the quality of personnel in metrological laboratories has improved during the last three years, although regular courses of instruction lasting 1-2 months should be organized. In addition, the curriculae in technical schools and courses for training state inspectors should be revised, as well as the administrative-technical aspects of organizing inspection. These revisions are of considerable importance for the eastern regions of the USSR, where there is an acute shortage of institutes, which have to serve too many laboratories. For example, the Novosibirsk State Institute has to serve all the laboratories in the Uzbek, Kazakh, Tadzhik and Turkmen SSR and in Siberia and the Far East. Also, the accounting aspects of the inspectorates' work needs revising and a reorganized bonus system would be very helpful. Finally, the editorial staff points to the very import-

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of Measuring Techniques

ant issues, raised by the author and requests opinions
on them from readers of the journal.

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25 (5)

SOV/115-59-10-1/29

AUHTOR: Sokolov, B.L.

TITLE: Systematic Increase of Labor Productivity - an Urgent Task of Local Branches of the Committee

PERIODICAL: Izmeritel'naya tekhnika, 1959, Nr 10, pp 1-3 (USSR)

ABSTRACT: Different measures are proposed by the author for increasing the labor productivity of local branches of the Committee of Standards, Measures and Measuring Equipment. The work of such a branch, the GKI = Gosudarstvennaya kontrol'naya laboratoriya (State Control Laboratory) is analized, criticized and some changes proposed. The author lists certain important flaws in the present system of the work organization in these laboratories, such as the internal division of the laboratory staff into groups for each kind of measuring control; the existence of a special inspection group in each laboratory which assumes the control of various industrial enterprises and plants and very often re-checks the production already inspected by a state

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. Systematic Increase of Labor Productivity - an Urgent Task of Local Branches of the Committee

controller, (each year only in the RSFSR 75,000 working days are consumed on more than 2,000 inspections); excessive paper work, etc. As an example of good work organization, the author mentions the Gor'kiy GKL, where all such flaws in the organization were abolished, resulting in an 21% increase of labor productivity of each laboratory worker in a 3-month period. The author also recommends continuous training of the laboratory staff. The author quotes cases where rationalizing propositions were delayed for a long time, as was the case with a proposition by the technical inspector of the Chernigov GKL, I.S. Krever, who suggested that the checking of commercial scales be simplified and speeded up. Very often such improvements are introduced in individual laboratories. Therefore, an exchange of technical information between laboratories must be organized and standards for the productivity degree of individual laboratory workers drafted.

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S/115/60/000/011/013/013
B019/B058

AUTHOR: Sokolov, B. L.

TITLE: Republic Conference on Quality Control of Finished Instruments

PERIODICAL: Izmeritel'naya tekhnika, 1960, No. 11, pp. 59 - 62

TEXT: This Conference was held by resolution of the July Plenum of the TsK KPSS and the Upravleniye upolnomochenogo Komiteta pri Sovete Ministrov RSFSR (Administration of the Authorized Committees at the Council of Ministers of the RSFSR). The following collaborators of the GKL held lectures: S. A. Zabutov (Krasnodarsk), P. M. Larionov (Chelyabinsk), Kh. D. Valeyev (Tatar GKL), B. Yu. Rozin (Omsk), D. I. Shmatok (Tomsk), and B. L. Sokolov, Senior Engineer of the Administration. In their lectures which are dealt with in detail, they described the state of instrument construction within the scope of the GKL and the control-testing stations in instrument-construction plants. They made suggestions regarding measures to improve control work, and also dealt with the collaboration between GKLs and sovnarkhozes, as well

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Republic Conference on Quality Control of
Finished Instruments

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B019/B058

as various plant commissions. Arutyunyan (Tambovskaya GKL) pointed out deficiencies of the effectiveness of control stations in the plants. Staroverov (Kurskaya GKL) was of the opinion that the dial heads made by the Kokchetavskiy zavod (Kokchetav Plant) are imperfect. Solov'yev (Ivanovskiy GKL) proved that intermediate controls during the production of instruments must be extended to improve the quality. Furmavin (Tatarskaya GKL), Head of the testing department of the "Teplokontrol'" plant, criticized the fact that the instruments are delivered to the testing stations very irregularly, especially at the end of the month. This fact greatly influences the exactness of tests. Krayev (Kirovskaya GKL) suggested to hold conferences for the purpose of investigating the quality of instruments. He also demanded the introduction of information cards for each instrument. Malinin (Gor'kovskaya GKL) suggested to specialize instrument-construction plants. Klochkov (Kaluzhskaya GKL) criticized the fact that the Gosplan is planning the delivery of instruments, of which the plants have not even a notion. Zaks also dealt with the problem of regular checkups of finished instruments. Further

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mentioned are: Ivanov (Bashkirskaya GKL), Yefremov (Saratovskaya GKL),
Samodurov (Ryazanskaya GKL), Puzenko (Kemerovskaya GKL), Toropov
(Vologodskaya GKL), Karlov (Orlovskaya GKL), and Gol'dshteyn (VNIIK).


Card 3/3

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652010003-3

SOKOLOV, B.L.

Improve the quality of manufactured instruments. Izm. tekhn. no.3:1-
3 Mr '61. (MIRA 14:2)

(Instrument manufacture)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652010003-3"

SOKOLOV, B.I.

Important objectives of State Laboratories for Testing Measuring
Equipment. Izm.tekh. no.12:1-3 D '61. (MIRA 15:1)
(Testing Laboratories)

SOKOLOV, B.L.

Activity of the Main Testing Laboratory in controlling production
quality of the instrument industry. Izm.tekh. no.12:1-4
D '62. (MIRA 15:2)
(Testing laboratories) (Instrument industry)

SOKOLOV, B.L.

Material responsibility for the violation of standards.
Standartizatsiia 27 no.9:47 S '63. (MIRA 16:10)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652010003-3

SOKOLOV, B.L.

Role of the state testing laboratories in the introduction of a defectless manufacture of instruments. Izm.tekh. no.6:56-58 Je '64.
(MTRA 17:12)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652010003-3"

SOKOLOV, B.L.

Practice of the Kirov State Testing Laboratory in carrying out official
inspection of measuring instruments in consolidated districts. Izm.tekh.
no.8:56-58 Ag '64. (MIRA 17:12)

BODUNGEN, I.N., inzh.; VINOGRADOV, K.V., inzh.; VELLERSETEYN, A.L., inzh.;
GOL'DGOR, B.G., inzh.; KUZ'MIN, V.S., inzh.; KULIKOV, P.S., inzh.;
LEBEDEV, N.N., inzh.; LEVI, S.S., kand.tekhn.nauk; ROZANOV, M.S.,
inzh.; SIDOROV, V.N., inzh.; SOKOLOV, D.V., inzh.; SLONIM, N.M.,
inzh., laureat Stalinskoy premii; EPSHTEYN, A.L., inzh.; ANTRUSHIN,
B.D., inzh., nauchnyy red.; SIMAKOV, S.N., inzh., nauchnyy red.;
TRUBIN, V.A., glavnnyy red.; SOSHIN, A.V., zam.glavnogo red.; CHINE-
VICH, G.P., red.; YEPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.;
ZIMIN, P.A., red.; VDOVENKO, Z.I., red.izd-va; SHIROKOVA, G.M.,
red.izd-va; EL'KINA, E.M., tekhn.red.

[Power engineering handbook for construction work] Spravochnik
energetika na stroitel'stve. Izd.2., perer. i dop. Pod red. N.N.
Lebedeva. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.
materialam, 1960. 736 p. (MIRA 13:11)
(Power engineering)

SOKOLOV, D.V.

Use of APN electric wires. Energetik 8 no.9:39 S '60.
(MIRA 14:9)
(Electric lines)

ALEKSEYEV, Aleksandr Grigor'yevich; GANYAYEV, Boris Dmitriyevich; MARKELOV, Vasilii Vasil'yevich; SOKOLOV, D.V., inzh., nauchnyy red.; GORDEYEV, P.A., red. izd-va; ABRAMOVA, V.M., tekhn. red.

[Industrial installation of large preassembled electric equipment at industrial enterprises] Industrial'nyi montazh elektrooborudovaniia promyshlennykh predpriatii. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 123 p. (MIRA 14:6)
(Electric apparatus and appliances)

ZYUZIN, A.F.; IL'IN, Ye.V.; LAZAREV, N.I.; SOKOLOV, D.V., inzh.,
nauchnyy red.; SHIROKOVA, G.N., red. izd-va; BOROVNEV, N.K.,
tekhn. red.

[Installing electrical equipment in industrial enterprises and
installations] Montazh elektrooborudovaniia promyshlennyykh
predpriatii i ustanovok. Moskva, Gos. izd-vo lit-ry po stroit.,
arkhit. i stroit. materialam, 1961. 283 p. (MIRA 15:2)
(Electric power distribution--Equipment and supplies)

SOKOLOV, D.V., inzh.; FRENKEL', S.N., inzh., nauchnyy red.; ARSEN'YEVA, Z.N.,
red. izd-va; GOL'BERG, T.M., tekhn. red.

[Establishment of secondary commutation in electric systems] Montazh
vtorichnoi kommutatsii v silovikh elektroustanovkakh. Moskva, Gos.
izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 302 p.
(MIRA 14:7)

1. Russia(1917- R.S.F.S.R.) Glavnaya upravleniya po proizvodstvu
elektromontazhnykh rabot.
(Automatic control) (Electric driving)

ALEKSEYEV, A.G.; BAYUSHKIN, S.N.; MARKELOV, V.V.; NEBESNYY, A.D.; SOKOLOV,
D.V., inzh., red.; VOLNYANSKIY, A.K., glav. red.; TARAN, V.D., red.;
SEREBRENNIKOV, S.S., red.; MIKHAYLOV, K.A., red.; STAROVEROV, I.G.,
red.; VOLODIN, V.Ye., red.; NIKOLAEVSKIY, Ye.Ya., red.; CHEKHOV-
SKAYA, T.P., red. izd-va; BOROVNEV, N.K., tekhn. red.

[Concise manual on electric wiring operations] Kratkii spravochnik
proizvodstvija elektromontazhnykh rabot. Pod red. D.V.Sokolova.
Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam,
1961. 311 p. (MIRA 14:10)

1. Moscow. Gosudarstvennyy proyektnyy institut Tyazhpromelektro-
proyekt.

(Electric wiring—Handbooks, manuals, etc.)

DELIBASH, B.A.; ZHIVOV, M.S.; TRUNKOVSKIY, L.Ye.; SOKOLOV, D.V.,
inzh., nauchnyy red.; VDOVENKO, Z.I., red. izd-va;
SHERSTNEVA, N.V., tekhn. red.

[Modern methods for conducting electrical equipment instal-
lation operations] Progressivnye metody proizvodstva elektro-
montazhnykh rabot. Moskva, Gosstrooiizdat, 1962. 134 p.
(MIA 15:12)

(Electric wiring) (Electric lines)

ANISIMOV, Aleksey Petrovich, inzh.; SOKOLOV, D.V., inzh., nauchnyy
red.; GORDEYEV, P.A., red. izd-va; NAUMOVA, G.D., tekhn.
red.

[Electric equipment and power supply at building sites]
Elektrooborudovanie i elektrosnabzhenie stroitel'nykh plo-
shchadok. Moskva, Gosstroizdat, 1962. 226 p.

(MIRA 15:9)

(Building--Electric equipment)

KAPLAN, Ya.I.; OBUKHOV, A.I.; PILEVSKIY, M.V.; SHNITMAN, I.L.;
VYSHESLAVTSEV, S.I., nauchnyy red.; VOLNYANSKIY, A.K., glav.
red.; SOKOLOV, D.V., zam. glav. red.; TARAN, V.D., red.;
SEREBRYANNIKOV, I.G., red.; MIKHAYLOV, K.A., red.;
STAROVEROV, I.G., red.; VOLODIN, V.Ye., red.; NIKOLAYEVSKIY,
Ye.Ya., red.; SHIROKOVA, G.M., red. izd-va; GOL'BERG, T.M.,
tekhn. red.

[Assembly of elevators] Montazh liftov. Moskva, Gosstroizdat,
1962. 227 p. (MIRA 15:7)
(Elevators)

LEYPUNSKAYA, D. I., SONCLOV, D. V., STIRKOVICH, V. P. and TIKHONOV, N. I.

"Application of multi-channel gamma-ray spectrometry in activation
well logging."

report to be submitted for the Conference on Nuclear Geophysics,
Krakow, Poland, 24-30 Sept 1962.

VAYNTRAUB, I.M., inzh.; GOBZA, R.N., inzh.; KATSNEL'SON, G.A., inzh.; KRASILOV, G.I., inzh.; ORENTLIKHER, P.B., inzh.; ERLIKHMAN, S.Ya., inzh.; VOLNYANSKIY, A.K., glav. red.; SOKOLOV, D.V., zam. glav.red.; TARAN, V.D., red.; SEREBRENNIKOV, S.N., red.; MIKHAYLOV, K.A., red.; STAROVEROV, I.G., red.; VOLODIN, V.Ye., red.; NIKOLAYEVSKIY, Ye.Ya., red.; SMIRNOV, L.I., inzh., nauchnyy red.; SKVORTSOVA, I.P., red. izd-va; SHERSTNEVA, N.V., tekhn. red.

[Adjusting, control, and operation of industrial ventilation systems] Naladka, regulirovka i ekspluatatsiya sistem promyshlennoi ventiliatsii. Pod red. S.IA.Erlikhmana. Moskva, Gosstroizdat, 1962. 555 p. (MIRA 15:9)

1. Russia (1917- R.S.F.S.R.) Glavnaya upravleniye sanitarno-tehnicheskogo montazha.

(Factories--Heating and ventilation)

GLUSHKOV, Georgiy Nikolayevich, inzh.; DEMINOV, Valeriy Anatol'yevich
Inzh.; KRAYTSEBERG, Meyer Itskovich, inzh.; SOKOLOV, D.V.,
inzh., nauchn. red.; RYAZANTSEVA, L.I., red.

[Electrical equipment and power supply in construction]
Elektrooborudovanie i elektrosnabzhenie stroitel'stva. Mo-
skva, Stroiizdat, 1964. 310 p. (MIRA 17:7)

GOL'DGOF, Boris Grigor'yevich, inzh.; SOKOLOV, Dmitriy Vladimirovich, inzh.; SOKOLOV, Boris Alekseyevich, inzh.; LEBEDEV, N.N., inzh., nauchn. red.; KORENEVSKIY, A.N., inzh., nauchn. red.

[Electrical equipment of industrial enterprises and systems in three parts] Elektrooborudovanie promyshlennyykh predpriiatii i ustanovok v 3 chastiakh. Moskva, Stroiizdat, Pt.1. 1965. 322 p. (MIRA 18:9)

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ACCESSION NR: AP5020135

UR/0109/65/010/008/1542/1544

621.385.632.2

AUTHOR: Sokolov, D. V.; Trubetskoy, D. I.

44,55

44,55

49

B

TITLE: Effect of nonrectilinearity of static trajectories upon the operation of electron-beam magnetron-type devices

SOURCE: Radiotekhnika i elektronika, v. 10, no. 8, 1965, 1542-1544

TOPIC TAGS: magnetron

ABSTRACT: The effect of nonrectilinearity of static trajectories is calculated, within the framework of a linear nonadiabatic theory, using as a model an infinitely thin beam with a definite surface charge density. The method of successive approximations is used. The space charge and the attenuation distributed in the system are neglected. A set of two equations for r-f displacements and an equation of excitation of the transmission line by a nonrectilinear electron beam describe the phenomena in the model. It is found that, under ordinary synchronous conditions in the magnetron-type TW tube, the effect of nonrectilinearity of the static trajectories upon the interaction processes is negligible. Orig. art. has: 3 figures and 8 formulas.

Card 1/2

ACC NR: AR7000948

SOURCE CODE: UR/0275/66/000/011/A019/A019

AUTHOR: Sokolov, D. V.; Trubetskoy, D. I.

TITLE: Approximate linear theory of a magnetron-type traveling wave amplifier

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 11A130

REF SOURCE: Sb. Vopr. elektron. sverkhvysok. chastot. Vyp. 2. Saratov. Saratovsk, un-t, 1966, 35-75

TOPIC TAGS: traveling wave amplifier, traveling wave tube, magnetron, dispersion equation, linear theory, space charge, successive approximation, Laplace transform

ABSTRACT: An attempt has been made to create a linear theory of the magnetron-type traveling-wave tube based on the method of successive approximations. In a number of cases, a dispersion equation method is used. An account is given of: 1) a simplified theory of the traveling-wave magnetron tube; 2) elements of non-diabatic theory of the traveling-wave magnetron tube, taking the effect of space charge into consideration; and 3) the effect of nonrectilinearity of static trajectories on the amplification factor of the magnetron-type traveling-wave tube. A solution of

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UDC: 621.385.632

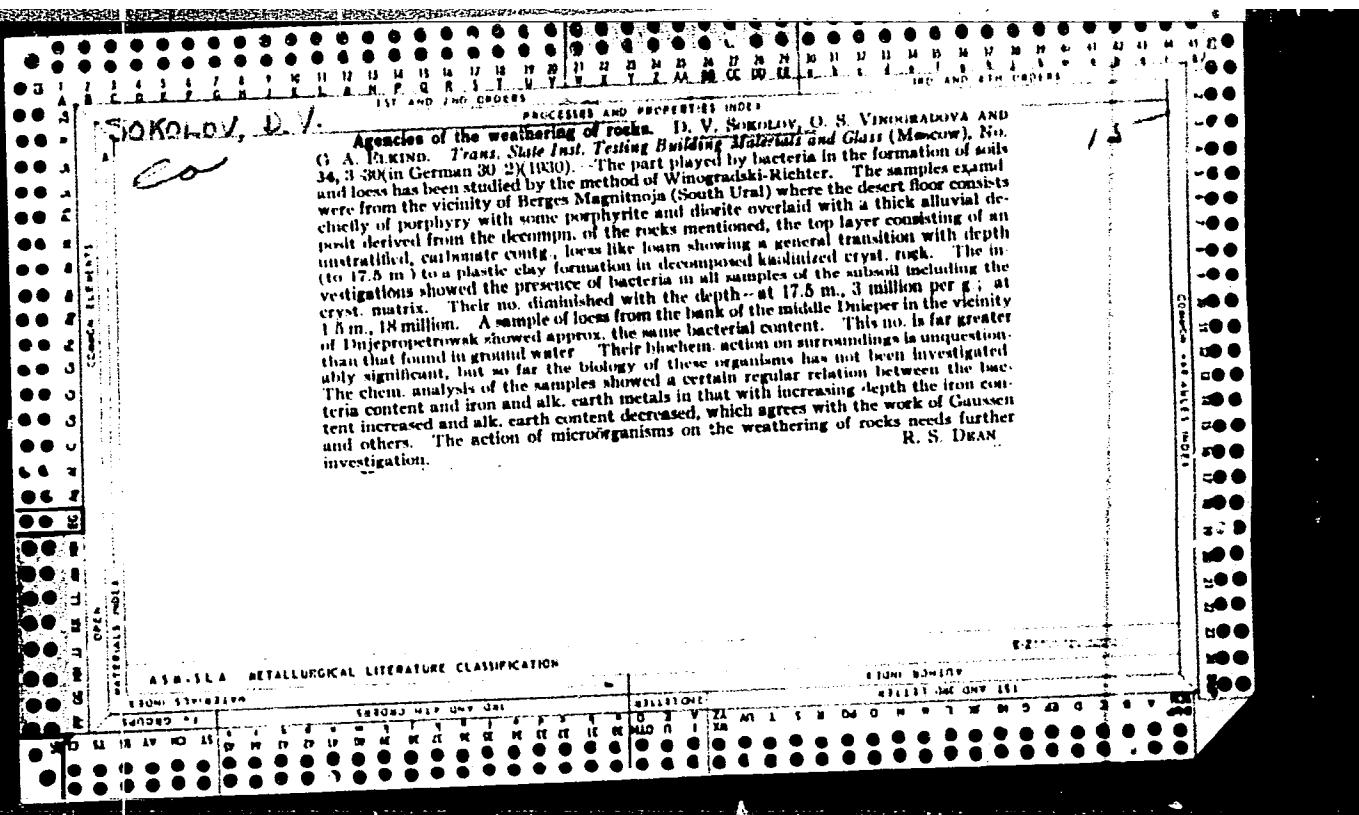
ACC NR: AR7000948

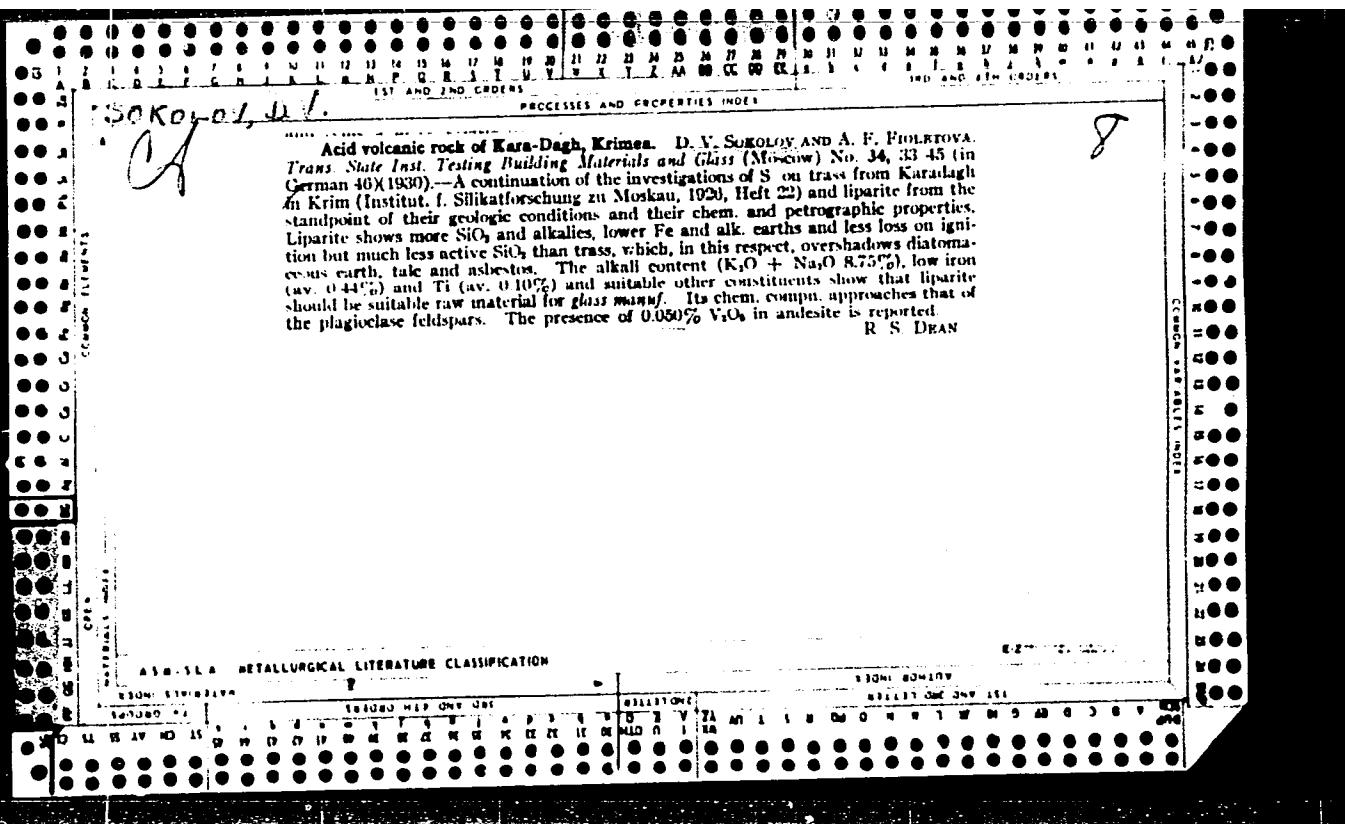
the problem is presented by the method of successive approximations based on the Laplace transform. A bibliography of 25 titles is included. [Translation of abstract]

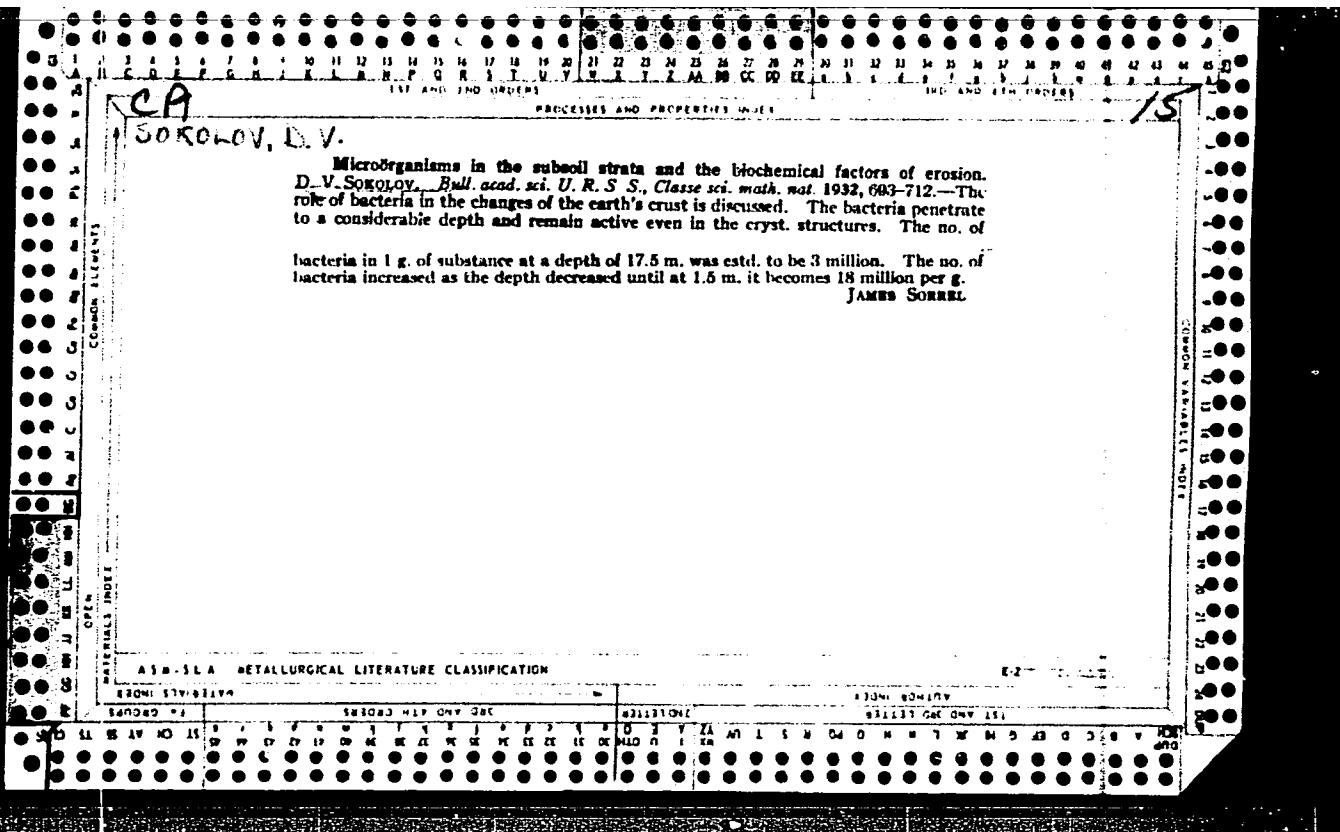
[NT]

SUB CODE: 09, 20/

Card 2/2







SOKOLOV, D.V.

Sokolov, D.V. "The Caradoc stage in the Crimea," Geologicheskoye opisanie
Materialy Azovo-Chernomor. geol. upr. po geologii i poleznyim iskopayemym,
symposium 23, 1948, p. 3-68 - Bibliog: 55 items

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

KAMASHIN, G. N., SIBIR-BALKHIN, A. I., SOKOLOV, D. V.

Water, Underground

Problems in the formation of ground waters bases on materials from the transactions of the Laboratory of Hydrogeological Problems, Vol. 1. Trudy Lab. gidrogeol.probl. No. 2, 1949.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

1. XEOLIC, D. V.
2. USSR (600)
4. Geologists
7. Konstantin Veniaminovich Petrov Obituary. Trudy Lab. gidrogeol. probl. 6. 1949.
9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

SOKOLOV, D.V.

USSR 4

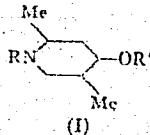
Heterocyclic compounds. XXIX. Stereoisomerism of 2,5-dimethyl-4-piperidinol, 1,2,5-trimethyl-4-piperidinol, and their derivatives. I. N. Nazarov, D. V. Sokolov, and V. N. Rakcheeva. Izvest. Akad. Nauk SSSR, Otdel. Khim. Nauk 1954, 80-94; cf. C.A. 44, 3460e; 48, 9371. — To 12.7 g. 2,5-dimethyl-4-piperidinone in 350 ml. abs. EtOH was added 35 g. Na, and the mixt. heated to complete the reaction, dil'd. with H₂O, acidified with HCl, filtered, concd., treated with NaOH, and ext'd. with Et₂O, yielding a distillate of isomeric I (R = R' = H) (II), b.p. 101-2°, the cryst. portion (7.3 g.) was the α -form (IIa), m. 97-8° (from ligroine) (picrate, m. 173-4°; HCl salt, m. 222-3°); the mother liquor yielded an uncrySTALLizable isomeric mixt. which was benzoylated yielding 1 g. γ -form (IIIγ), m. 160°, of 1-benzoyl-2,5-dimethyl-4-piperidinol (I, R = Bz; R' = II) (III). Reduction in Et₂O/ over Raney Ni in the presence of a little 20% NaOH gives the β -form (IIβ) of II, m. 141-2° (from petr. ether) (picrate, m. 179-80°; HCl salt, m. 209-10°); the mother liquor on benzoylation yielded 50%

1
8

(over)

VII. Reduction Products

III_γ. Electrolytic reduction of 20 g. of the piperidone on a Pb cathode in 19% (NH₄)₂SO₄ at 20° and c.d. 0.029 amp./sq. cm. gave in 5 hrs. 2.2 g. II₅. Treatment of 2,5-dimethyl-4-piperidone with BzCl in dil. NaOH gave the 1-Bz deriv., b₁ 192-3°, m. 64-5° (from petr. ether) (2,4-



dinitrophenylhydrazone, m. 211-12°). This (21.4 g.) hydrogenated over Raney Ni in EtOH in the presence of a little 20% NaOH yielded (from 4 combined runs) 120 g. *isomeric* III; crystn. from C₆H₆ gave 47 g. pure III_γ, m. 159-60° (phenylurethan, m. 178-9°), while the mother liquor on addition of petr. ether gave 30 g. mixed III_α and III_β form, m. 88-95°. Heating III_γ (10 g.) 35 hrs. on a steam bath with 100 ml. 18% HCl gave 4 g. *trans* (II_γ) of II, b₁ 82-4°, m. 86-7° (from petr. ether) (picrate, oil; HCl salt, m. 187-8°). Similar hydrolysis of III_α and III_β gave II_α and II_β, m. 98° and 142°, resp.; II_β ppts. directly from Et₂O, while II_α is sepd. as the HCl salt. Thus, electrolytic reduction yields II_α, II_β, and II_γ. Heating 37.2 g. 2,5-dimethyl-4-piperidinone with 30 g. Ac₂O 30 min. on a steam bath gave, after evapn. *in vacuo* and washing with NaOH, 43 g. *1-acetyl-2,5-dimethyl-4-piperidinone*, b₁ 122-4°, n_D²⁰ 1.4913, d₂₀ 1.0792, m. 56-7° (from petr. ether); the same substance (b₁ 117-18°, n_D²⁰ 1.4925, d₂₀ 1.0816) formed on treatment of the ketone in dioxane with CH₂:CO

No. 135-11-1

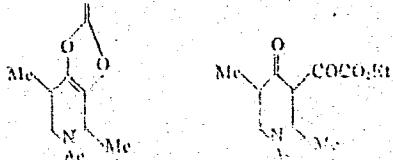
2 hrs.; 2,4-dinitrophenylhydrazone, m. 177-9° (from EtOH). Hydogenation of the Ac deriv. over Raney Ni in EtOH in the presence of a little 20% NaOH gave mixed isomers, b_4 135-8°; of I ($R = Ae$, $R' = H$) (IV) from which was isolated about 30% γ -form (IV γ), m. 86-7° (phenylurethan, m. 232-3°). This refluxed with 18% HCl 30 hrs. gave the above described II γ , m. 86-7°. Refluxing 4 g. II β with 7 g. Na in 50 ml. iso-AmOH 43 hrs. at 180-00° gave after the usual treatment 1.2 g. II α , m. 96-8°. Similarly II β gave a low yield of II α . II α with BzCl in aq. NaOH gave III α , m. 131-7°. Similarly, II β gave the corresponding III β , m. 131-5°. Heating 5 g. II α HCl with 8 g. BzCl 1 hr. at 140-50° gave after soln. in H₂O and extn. with Et₂O 2.2 g. III α , b_4 164-5°, n_D^{20} 1.5210, d_{40}° 1.0623 (picrate, m. 101-5°; HCl salt, m. 205-6°). Similarly II β .HCl gave the corresponding III β , b_4 166°, n_D^{20} 1.5250, d_{40}° 1.0600 (picrate, m. 215-6°; HCl salt, m. 167-8.5°). Heating III γ (m. 150-60°) (10 g.) with 10 g. BzCl to 170° until HCl evolution stopped, followed by passage of dry HCl at the same temp., 2 hrs. gave a ppt. of the HCl salt, which was septd. and treated with aq. Na₂CO₃, yielding 5.5 g. benzote (I, $R = R' = Bz$) (V) of III γ , b_4 125-6°, n_D^{20} 1.5205, d_{40}° 1.0633 (picrate, m. 173-1.5°; HCl salt, m. 253-4°). Treatment of the benzote of II α with BzCl in 10% NaOH gave V α , m. 92-3° (from petr. ether). Similarly was obtained V β , m. 92-3°. Refluxing 3 g. III γ with 5 g. BzCl in C₆H₆ 24 hrs. gave 2.6 g. V γ , m. 117-18°. Heating 2 g. III α , m. 136-7°, with 4 g. Ac₂O and 1 drop H₂SO₄ 7.5 hrs. at 60° gave 2.5 g. α -form (VI α) of I ($R = Bz$, $R' = Ac$) (VI), b_4 187-0°, n_D^{20} 1.5290. Similarly III β gave VI β , m. 125-6° while III γ gave VI γ , m. 92.5-3°. Heating 3.8 g., 32% formall with 2.2 g. 30% HCO₂H and 5 g. II α on a steam-

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bath 6.3 hrs. gave 4.7 g. α -form (VII α), b₁ 87-9°, n_D²⁰ 1.4730, d₂₀ 0.9541, m. 72-3° (picrate, m. 142-3°; HCl salt, m. 195-6°), cf I (R = Me, R' = H) (VII). Similar methylation of II β gave the β -form (VII β), m. 77-8° (picrate, m. 181-2°; HCl salt, hygroscopic crystals). Heating 4.5 g. VII α .HCl.HCl salt with 6 g. BzCl 20-30 min. to 150° gave after treatment with H₂O, extn. with Et₂O, and treatment with Na₂CO₃, 5.2 g. α -form (VII α) of I (R = Me, R' = Bz) (VIII), b₁ 135-6°, n_D²⁰ 1.5170, d₂₀ 1.0315 (picrate, m. 199-200°; HCl salt, m. 201-2°). Similarly VII β gave the corresponding VIII β , b₁ 128-30°, n_D²⁰ 1.5100, d₂₀ 1.0440 (picrate, m. 217-18°; HCl salt, uncrystallizable mass). Heating 4.55 g. IV γ with 1.88 g. 32% formalin and 1 g. 90% HCO₂H 40 min. on a steam bath gave 4.1 g. (VII γ), b₁ 136-7°, n_D²⁰ 1.5195, d₂₀ 1.0399 (picrate, m. 181-2°; HCl salt, m. 178-9.5°), which, heated 2 hrs. with 25% HCl on a steam bath, gave BzOH and VII γ , b₁ 88° (picrate, m. 167-8°; HCl salt, hygroscopic solid). Partial evapn. of 0.5 g. 2,5-dimethyl-1-piperidinone (Ac 2,5-dimethyl-1-piperidinone) in EtOH over Raney Ni gave a mixt. of stereoisomers of 1-acetyl-2,5-dimethyl-3-carboxy-4-piperidinol (III), b₁ 151-70°, which was sep'd. into 5° fractions. The middle fraction, b₁ 150-61°, n_D²⁰ 1.4902, d₂₀ 1.1185, solidified in part, yielding 1.6 g. III, m. 101-2°. The isomer mixt. (from 14.6 g. ketone) was treated in abs. EtOH with dry HCl, I

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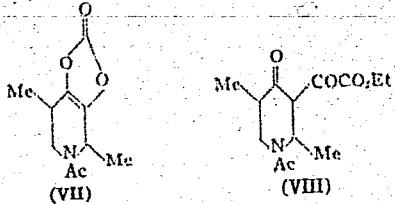
(picrate, oil; *HCl salt*, m. 137-8°), along with 2 g. *benzoate* of *Vla*, b.p. 107-70°, n_{D}^{20} 1.5105, d_{4}^{20} 1.0873 (picrate, m. 184-6°; *HCl salt*, m. 185-6°). Similar methylation of 4.1 g. *IVb*, m. 158-0°, gave 88% β -isomer (*VIb*) of *VI*, m. 87-8° (*picrate*, m. 168-9°; *HCl salt*, m. 174-5°); the latter *HCl salt* (3.7 g.) heated with *BzCl* to 100° as above gave 2.5 g. *HCl salt*, m. 213-14°, of the *benzoate* of *VIb*, along with 1.6 g. *benzoate*, b.p. 167-9°, n_{D}^{20} 1.5103, d_{4}^{20} 1.089, which solidified on standing, and m. 59-60° (from petr. ether) (*HCl salt*, m. 213-14°). To dry *BzONa* from 2.2 g. *Na* was added with cooling 7.1 g. HCO_2Et and 8.1 g. *V* in abs. C_6H_6 , the mixt. kept 49 hrs. at room temp. in a closed flask, the ppt. sep'd., washed with C_6H_6 , treated with 20 ml. concd. *HCl* with addn. of small pieces of ice, and the soln. satd. with *NaCl* and extd. with C_6H_6 , yielding 68% *t-acetyl-2,5-dimethyl-3-*



1.4075, d_{40}^{20} 1.1245 (with FeCl_3 this gives an intense red color). The same product formed in 36.5% yield in the reaction with EtONa instead of Na for 40 min. at 90°; at lower temps. the yield rises, and at room temp. in 19 days was 55%. The pure product, b_f 131-6°, n_D^{20} 1.4938, solidifies on standing, m. 65-6° (from petr. ether). Hydrolysis of this with 22% HCl 32 hrs. on a steam bath gave 2,5-dimethyl-4-piperidinone. Hydrogenation of the ester Ac deriv. in EtOH over Raney Ni gave a mixt. of stereoisomers of 1-acetyl-2,5-dimethyl-3-carbethoxy-4-piperidinol (III), b_f 151-70°, which was sepd. into 5° fractions. The middle fraction, b_f 158-61°, n_D^{20} 1.4902, d_{40}^{20} 1.1185, solidified in part, yielding 1.6 g. III, m. 101-2°. The isomer mixt. (from 14.8 g. ketone) was treated in abs. EtOH with dry HCl , refluxed 28 hrs., the ppt. filtered off, and recrystd. from H_2O to give 3.4 g. high-melting β-isomer ($\text{IV}\beta$), m. 153-9° (from C_6H_6) (picrate, m. 204-5°; HCl salt, m. 103-9°) of 2,5-dimethyl-3-carbethoxy-4-piperidinol (IV). The EtOH soln. after the removal of the above, evapd. and subjected to treatment with dry HCl - EtOH 50 hrs. longer, yielded 1.2 g. low-melting α-isomer ($\text{IV}\alpha$), m. 115-16° (from C_6H_6) (picrate, m. 142-3°; HCl salt, m. 185-6°). The isomer mixt. from the hydrogenation heated 60 hrs. with 10% HCl , evapd., and heated 10 hrs. longer with HCl - EtOH (dry) gave $\text{IV}\beta$, m. 158-9°, and a smaller amt. of $\text{IV}\alpha$, m. 115-16°. Heating the cryst. isomer, m. 101-2°, of III with dry HCl - EtOH 30 hrs. gave about 45% $\text{IV}\alpha$, m. 115-16°. Reduction of 16.5 g. 1-acetyl-2,5-dimethyl-3-carbethoxy-4-piperidinone (V) with 750 g. 2.5% $\text{Na}-\text{Hg}$ in 45% aq. EtOH , followed by cleavage of the Ac group with alc. HCl , gave 1.4 g. $\text{IV}\beta$, m. 158-9°, and 5 g. mixed

isomers, b_1 , 103-22°, from which was isolated 0.8 g. IV α , m. 115-18°. The isomeric mixt. of the III from hydrogenation of the ketone over Raney Ni was heated with BzCl 15 min. to 165-70°, treated with dry HCl 1 hr. at 100°, and taken up in H₂O, giving a low yield of the 2,5-dimethyl-3-carbethoxy-4-piperidyl acetate, b_1 100-2°, n_D^{20} 1.4810, d_{40}^{20} 1.085, along with a similar yield of the benzoate, b_1 160-4°, n_D^{20} 1.5123, d_{40}^{20} 1.1145, both esters being mixts. of stereoisomers. Heating 4.4 g. IV α with 3.4 g. 29% formalin and 1.4 g. 90% HCO₂H on a steam bath 40 min., cooling, and treating the mixt. with K₂CO₃ soln. gave 4.3 g. α -isomer (VI α) of 1,2,5-trimethyl-3-carbethoxy-4-piperidinol (VI), b_1 112-13°, n_D^{20} 1.4778, d_{40}^{20} 1.0528 (picrate, m. 141-2°, HCl salt, m. 151-2°). The HCl salt (3.0 g.) heated with 6.1 g. BzCl to 160° 0.5 hr. gave, after evapn. of residual BzCl and treatment with H₂O, 0.7 g. 1,2,5-trimethyl-3-carbethoxy- Δ^2 -tetrahydropyridine; b_1 109-10°, n_D^{20} 1.4765, d_{40}^{20} 0.9940 (picrate oil; HCl salt, m. 137-8°), along with 2 g. benzoate of VI α , b_1 167-70°, n_D^{20} 1.5105, d_{40}^{20} 1.0873 (picrate, m. 184-5°; HCl salt, m. 185-6°). Similar methylation of 4.1 g. IV β , m. 158-9°, gave 88% β -isomer (VI β) of VI, m. 87-8° (picrate, m. 168-9°, HCl salt, m. 174-5°); the latter HCl salt (3.7 g.) heated with BzCl to 160° as above gave 2.5 g. HCl salt, m. 213-14°, of the benzoate of VI β , along with 1.0 g. benzoate, b_1 167-9°, n_D^{20} 1.5103, d_{40}^{20} 1.089, which solidified on standing, and m. 50-60° (from petr. ether) (HCl salt, m. 213-14°). To dry EtONa from 2.2 g. Na was added with cooling 7.1 g. HCO₂Et and 8.1 g. V in abs. C₆H₆, the mixt. kept 40 hrs. at room temp. in a closed flask, the ppt. sepd., washed with C₆H₆, treated with 20 ml. concd. HCl with addn. of small pieces of ice, and the soln. satd. with NaCl and extd. with C₆H₆, yielding 68% 1-acetyl-2,5-dimethyl-3-

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hydroxymethylene-1-piperidinone, m. 123-4° (from C_6H_6); if the product is disid. it forms an oil, b.p. 138-9°, which slowly solidifies and m. 123-4°; it gives red color with $FeCl_3$; with 2,4-(O,N)₂C₆H₃NHNH₂, it forms a *pyrazole deriv.*; $C_8H_{11}O_2N_3$, m. 201-2°. Hydrogenation of the hydroxymethylene deriv. over Raney Ni leads to absorption of 2 moles of H. To a suspension of dry EtONa (from 4.2

g. Na) in dry C_6H_6 were added with cooling 29 g. (CO₂Et), and 17 g. V in C_6H_6 ; after standing overnight at room temp., the mixt. was acidified with HCl with cooling and extd. with CD_4 , yielding a white ppt. which was sepd. This (3.3 g.) was identified as the compd. (VII), decompp. 210°. The residual oil heated 15 min. to 150-80° yielded 12.2 g. more VII (total, 68% yield). VII is poorly sol. in org. solvents, but is sol. in alkalies, being repprted as acidifiable. It gives a green color with FeCl₃-EtOH. Boiling VII with EtOH yields the oily material mentioned above, which is apparently *Et*-acetyl-2,5-dimethyl-4-oxo-3-piperidinyloxazole (VIII). The results are similar when the condensation is run with alc. EtONa, or with Na in C_6H_6 .

G. M. Kosolapoff

NAZAROV, I.N.; SOKOLOV, D.V.; LITVINENKO, G.S.

Heterocyclic compounds. Report no.30: Condensation of γ -piperidone with esters of formic, oxalic, carbonic, and chlorocarbonic acids. Synthesis of cocaine analogs. Izv.AN SSSR. Otd.khim.nauk no.1:95-108 Ja-F '54. (MLRA 7:4)

1. Institut khimicheskikh nauk Akademii nauk Kaz.SSR.
(Condensation products (Chemistry)) (Esters) (Chemistry, Medical
and pharmaceutical)

SOKOLOV, D. V. (Institut khimii AN KazSSR, Alma-Ata) (Institute of Chemistry AS Kazakhskaya SSR, Alma-Ata)

D. V. Sokolov, G. S. Litvinenko, and K. I. Khladneva, "Conformation of Stereoisomers of 2-Methyl-4-ketodekahydroquinoline and 2-Methyl-4-oxydekahydroquinoline and Some of Their Derivatives."

report presented at the Symposium on Concepts of Conformation in Organic Chemistry which took place in Moscow at the IOKh AN SSSR (Institute of Organic Chemistry, AS USSR) from September 30 to October 2, 1958.

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, 1959, No. 3, 561-564.

Sokolov, D. V.

AUTHORS: Shidlovskaia, A. N., Syrkin, Ya. K., Nazarov, I. N., Sokolov, D. V. 62-2-22/28

TITLE: The Dipole Moments of the Steric Isomers of 2-Methyl-4-Keto-Decahydroquinolines (Dipol'nyye momenty prostranstvennykh izomerov 2-metil-4-ketodekagidrokhinolinov)

PERIODICAL: Izvestiya AN SSSR Otdelenie Khimicheskikh Nauk, 1958, Nr 2, pp. 241-241 (USSR)

ABSTRACT: The authors measured the dipole moments of the above-mentioned isomers which were synthesized by Sokolov. Dielectric polarizations were determined according to the heterodyne method in benzene solutions (at 25°C). The results of this work are given in table 1. Formulae, melting temperatures as well as an information on the investigated concentrations, the full polarizations, P_{ee} , orientation polarizations P_{or} and so on are also given in the table. The congruence of the moments of all isomers indicates the similar configurations of the polar groups (table 1). There is 1 table.

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Inst. Fine Chem. Technol im M. V. Lomonosov

SOKOLOV, D.V.; KHOKHOLOVA, V.V.; PERMITINA, N.G.

Condensation of 1,2,5-trimethyl-4-piperidone with formaldehyde.
Vest.AN Kazakh.SSR 14 no.10:63-70 O '58. (MIRA 11:12)
(Piperidone) (Formaldehyde) (Condensation products (Chemistry))

SOKOLOV, D.V.; LITVINENKO, G.S.; ISIN, Zh.I.

Laboratory production of vinylacetylene from dimethylvinyl-
lethinylicarbinol. Izv.AN Kazakh.SSR.Ser.khim. no.2:68-71
'59. (MIREA 12:8)

(Acetylene)

5(3)

AUTHORS: Sokolov, D. V., Litvinenko, G. S., Khludneva, K. I. SOV/79-29-4-15/77

TITLE: III. Stereochemistry of Nitrogen Heterocycles (III. Stereokhimiya azotistykh geterotsiklov). III. Stereoisomers of 2-Methyl-4-ketodecahydroquinoline (III. Stereoizomeriya 2-metyl-4-ketodekagidrokhinolina)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1112-1122 (USSR)

ABSTRACT: Upon suggestion of the late Academician I. N. Nazarov, the authors chose in continuation of their previous papers (Refs 1, 2) the easily accessible 2-methyl-4-ketodecahydroquinoline (I) as subject of stereochemical investigations, which is synthesized from the acetylene derivatives (Ref 3) according to scheme 1. It has three asymmetric carbon atoms and can theoretically occur in the form of four racemates. From among the four possible racemates the racemates (II), (III) and (IV), denoted in scheme 2, α -, β -, and γ -isomer, were obtained. The fourth one, the δ -isomer (V) could only be obtained in the form

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III. Stereochemistry of Nitrogen Heterocycles.

SOV/79-29-4-15/77

III. Stereoisomers of 2-Methyl-4-ketodecahydroquinoline

of its benzoyl derivatives (Va) (for details see table). On repeated fractional recrystallization of the hydrogen chloride salts (I) from anhydrous alcohol the compounds (VII) and (VIII) resulted. The results of the investigation indicate that the initial mixture of the isomers of 2-methyl-4-ketodecahydroquinoline (I) consists chiefly of the stable α - and γ -isomers (II and IV) and partly of the less stable β -isomer (III). The very unstable δ -isomer (V) in the mixture apparently does not occur. For the time being it is not possible to solve the problem whether on the closure of the piperidine ring (see the scheme) immediately the more stable α - and γ -isomers (II) and (IV) or, at first, the less stable β and δ isomers (III) and (V) are formed on the double bond of the cyclohexane ring. The δ -isomer (V) is rapidly transformed into the γ -isomer (IV); the α - and β -isomers undergo mutual transformations by way of the hydrochloride into which compound (I) must be converted in order to separate it from neutral compounds. Thus, the conditions for the mutual transformations of stable isomers into unstable ones, and vice versa, are found.

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III. Stereochemistry of Nitrogen Heterocycles.

SOV/79-29-4-15/71

III. Stereoisomers of 2-Methyl-4-ketodecahydroquinoline

There are 1 table and 9 references, 4 of which are Soviet.

ASSOCIATION: Institut khimicheskikh nauk Akademii nauk Kazakhskoy SSR
(Institute of Chemical Sciences of the Academy of Sciences
of the Kazakhskaya SSR)

SUBMITTED: March 6, 1958

Card 3/3

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SOV/79-30-3-20/69

AUTHORS: Sokolov, D. V., Litvinenko, G. S., Khladneva, K. I.

TITLE: Stereochemistry of Nitrogen-Containing Heterocycles.
VIII. Benzoic Esters of 2-Methyl-4-Hydroxydecahydro-
quinoline and 1,2-Dimethyl-4-hydroxydecahydroquinoline
Isomers. New Anesthetics

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, Nr 3,
pp 831-838 (USSR)

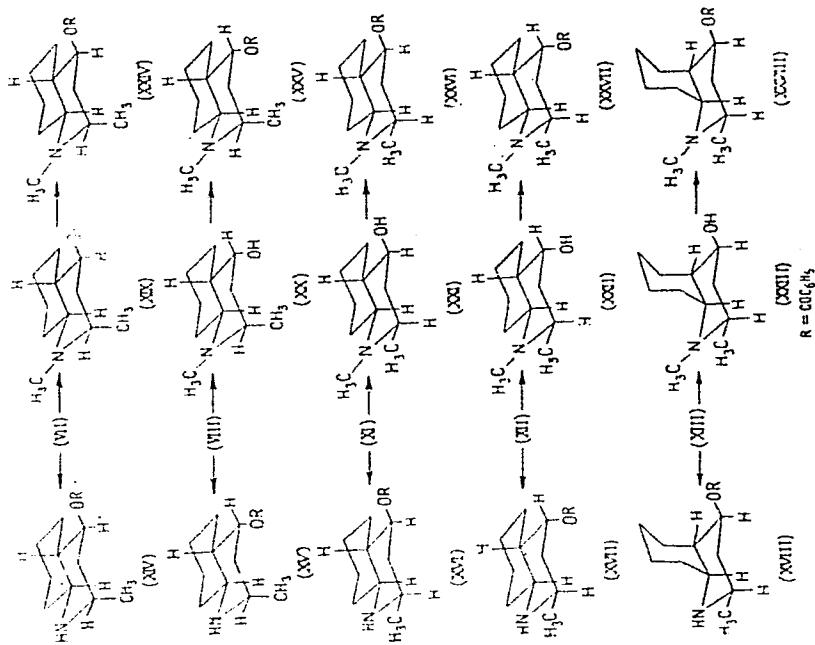
ABSTRACT: This article is a continuation of previous work (Zhurnal
obshchey khimii, 29, 3204 (1959); ibid, 29, 3555 (1959))
and is devoted to synthesis of benzoic esters of the
five common alcohols (VII, mp 134°; VIII, mp 128°;
XI, mp 144°; XII, mp 158°) with rings joined trans,
and alcohol (XIII, mp 115°) with rings joined cis, as
well as benzoic esters of these alcohols with methyl
radicals at the nitrogen (scheme 2)

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Stereochemistry of Nitrogen-Containing
Heterocycles. VIII

78260
SOV/79-30-3-20/69

Scheme 2.



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Stereochemistry of Nitrogen-Containing
Heterocycles. VIII

78266
SOV/79-30-3-20/69

Heating the hydrochlorides of racemic alcohols (VII), (VIII), (XI), and (XII) with benzoyl chloride results in good yield of benzoic esters of 2-methyl-4-hydroxy-decahydroquinoline, (XIV), (XV), (XVI), and (XVII). Benzoic ester (XVIII) was obtained from N-benzoyl derivatives of alcohol (XIII) by the method described previously (above ref). The properties of the obtained esters are shown in Table 3. Heating the same alcohols with a mixture of formaldehyde and formic acid yields (90%) five corresponding racemates of 1,2-dimethyl-4-hydroxydecahydroquinoline, (XIX), (XX), (XXI), (XXII), and (XXIII). The properties of the obtained compounds are shown in Table 2. Compounds were converted into corresponding benzoic esters, (XXIV), (XXV), (XXVI),

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Stereochemistry of Nitrogen-Containing
Heterocycles. VIII

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SOV/79-30-3-20/69

(XXVII) and (XXVIII). They are shown in Table 4. The majority of the synthesized compounds have strong anesthetic properties surpassing that of novocain, and especially cocaine; some of them were comparable to dicaine. The obtained compounds were tested at the Alma-Ata Medical Institute (chair of pharmacology) and at the Institute of Physiology of the Academy of Sciences of the Kazakh SSR (pharmacology laboratory), under the direction of I. I. Sivertsev. There are 4 tables; and 8 Soviet references.

ASSOCIATION: Institute of Chemical Sciences of the Academy of Sciences of the Kazakh SSR (Institut khimicheskikh nauk Akademii nauk Kazakhskoy SSR)

SUBMITTED: March 19, 1959

Card 4/6

Table 2

	<i>B</i>	<i>c</i>	<i>D</i>	<i>E</i>	$\gamma_{(1,0,0)}$ 304/(0-30-5-20/6)
(XXI)	a) $C_{11}H_{21}ON$	20	93.0	116-117	
	b) $C_{11}H_{21}ONCl$			238-239	
	c) $C_{11}H_{21}O_2N_3$			179-180	
(XXII)	a) $C_{11}H_{21}ON$	20	92.0	148-149	
	b) $C_{11}H_{21}ONCl$			257-258	
	c) $C_{11}H_{21}O_2N_3$			175-176	
(XXIII)	a) $C_{11}H_{21}ON$	20	90.0	87-88	
	b) $C_{11}H_{21}ONCl$			173-174	
	c) $C_{11}H_{21}O_2N_3$			140-142	
(XXIV)	a) $C_{11}H_{21}ON$	20	79.2	130-131	
	b) $C_{11}H_{21}ONCl$			150-151	
	c) $C_{11}H_{21}O_2N_3$			192-193	
(XXV)	a) $C_{11}H_{21}ON$	20	86.0	99-100	
	b) $C_{11}H_{21}ONCl$			192-193	
	c) $C_{11}H_{21}O_2N_3$			149-151	

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Table 3

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>
(XIV)	a) $C_{17}H_{23}O_2N$ *	183-190°	84.6		
	b) $C_{17}H_{21}O_2NCl$	—	—	283-284°	
	c) $C_{23}H_{28}O_9N_4$	—	—	209-209	
(XV)	a) $C_{17}H_{23}O_2N$	197-198	64.0	77-78	
	b) $C_{17}H_{24}O_2NCl$	—	—	269-271	
	c) $C_{23}H_{28}O_9N_4$	—	—	256-257	
(XVI)	a) $C_{17}H_{23}O_2N$	190-193	53.6	87-87.5	
	b) $C_{17}H_{24}O_2NCl$	—	—	270-272	
	c) $C_{23}H_{28}O_9N_4$	—	—	240-241	
(XVII)	a) $C_{17}H_{23}O_2N$ **	197-199	83.5		
	b) $C_{17}H_{24}O_2NCl$	—	—	214-215	
	c) $C_{23}H_{28}O_9N_4$	—	—	271-273	
(XVIII)	a) $C_{17}H_{23}O_2N$ [?]	135-140	50.2	75-76	
	b) $C_{17}H_{24}O_2NCl$	—	—	304-305	* d_4^{20} 1.0869, n_D^{20} 1.5396,
	c) $C_{23}H_{28}O_9N_4$	—	—	216-217	** d_4^{20} 1.0874; n_D^{20} 1.5380;

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SOV/79-30-3-20/69

Table A

A

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SOV/79-30-3-20/69

	B	C	D	E
(XXIV)	a) C ₁₈ H ₂₅ O ₂ N	160-165*	99.0	62-63 ^b
	b) C ₁₈ H ₂₆ O ₂ NCl	--	--	269-270
	c) C ₂₁ H ₂₈ O ₃ N ₄	--	--	--
(XXV)	a) C ₁₈ H ₂₅ O ₂ N *	160-165	84.0	41-42
	b) C ₁₈ H ₂₆ O ₂ NCl	--	--	204-205
	c) C ₂₁ H ₂₈ O ₃ N ₄	--	--	233-234
(XXVI)	a) C ₁₈ H ₂₅ O ₂ N **	145-150	97.0	
	b) C ₁₈ H ₂₆ O ₂ NCl	--	--	217-218
	c) C ₂₁ H ₂₈ O ₃ N ₄	--	--	192-193
(XXVII)	a) C ₁₈ H ₂₅ O ₂ N ***	140-145	87.7	
	b) C ₁₈ H ₂₆ O ₂ NCl	--	--	F
	c) C ₂₁ H ₂₈ O ₃ N ₄	--	--	212-213
(XXVIII)	a) C ₁₈ H ₂₅ O ₂ N	150-155	95.0	57-58
	b) C ₁₈ H ₂₆ O ₂ NCl	--	--	232-234

Card 7/8 * d_4^{20} 1.0844, n_b^{20} 1.5417,
 ** d_4^{20} 1.0702, n_b^{20} 1.5280,
 *** d_4^{20} 1.0723, n_b^{20} 1.5368,

Stereochemistry of Nitrogen-Containing
Heterocycles. VIII

78266
SOV/79-30-3-20/69

Table 2. (A) Properties of isomeric 1,2-dimethyl-4-hydroxydecahydroquinolines and their derivatives; (B) formulas of isomers (a), their hydrochlorides (b) and picrates (c); (C) methylation time (in min); (D) yield (%); (E) mp.

Table 3. (A) Properties of 2-methyl-4-hydroxydecahydroquinoline benzoates and their derivatives; (B) formulas of benzoates (a), their hydrochlorides (b), and picrates (c); (C) benzoylation temperature; (D) yield, (%); (E) mp.

Table 4. (A) Properties of 1,2-dimethyl-4-hydroxydecahydroquinoline benzoates and their derivatives; (B) formulas of benzoates (a), their hydrochlorides (b) and picrates (c); (C) benzoylation temperature; (D) yield (%); (E) mp; (F) hygroscopic.

Card 8/8

SOKOLOV, D. V.

Doc Chem Sci - (diss) "Study in the area of stereochemistry of oxygen derivatives of piperidine and decahydroquinoline and the synthesis of anesthetizing compounds." Moscow-/Alma-Ata, Pub. Academy of Sciences Kazakh SSR⁷, 1961. 34 pp; (Academy of Sciences USSR, Inst of Organic Chemistry imeni N. D. Zelinskiy); 200 copies; price not given; list of author's works on pp 33-34 (16 entries); (KL, 10-61 sup, 206)

AGASHKIN, O.V.; LITVINEKO, G.S.; SOKOLOV, D.V.; CHASNIKOVA, S.S.

Stereochemistry of nitrogen heterocycles. Part 11: Infrared spectra of the family of 2-methyl-4-hydroxydecahydroquinoline stereoisomers. Zhur. ob. khim. 31 no.3:862-870 Mr '61.
(MIRA 14:3)

1. Institut khimii AN Kazakhskoy SSR.
(Quinoline--Spectra)

SOKOLOV, D. V.

Dissertation defended for the degree of Doctor of Chemical Sciences
at the Institute of Organic Chemistry imeni N. D. Zelinskiy in 1962:

"Investigation in the Field of the Stereochemistry of Oxygen Derivatives
of Piperidine and Decahydroquinoline and Syntheses of Anesthetizing
Compounds."

Vest. Akad. Nauk SSSR. No. 4, Moscow, 1963, pages 119-145

SOKOLOV, D.V.; LITVINENKO, G.S.; ARTYUKHIN, V.I.

Stereochemistry of nitrogen heterocycles. Part 10: Steric directivity
in hydrogenation of isomers of 2-methyl-4-ketodecahydroquinoline.
Reduction of isomers of 1-benzoyl-2-methyl-4-ketodecahydroquinoline
by aluminum isopropylate. Izv.AN Kazakh. SSR. Ser.khim. no.1:75-82
'61. (MIRA 16:7)
(Heterocyclic compounds) (Stereochemistry)

L 49013-65

ACCESSION NR: AR5012262

UR/0058/65/000/003/D036/D036
17
B

SOURCE: Ref. zh. Fizika, Abs. 3D270

AUTHOR: Agashkin, O. V.; Chasnikova, S. S.; Litvinenko, G. S.; Sokolov, D. V.

TITLE: Infrared and ultraviolet spectra of several batch alcohols

CITED SOURCE: Tr. Komis. po spektroskopii. AN SSSR, vyp. 1, 1964, 330-336

TOPIC TAGS: spectroscopy, ir spectra, ultraviolet spectra, batch alcohol

TRANSLATION: The equilibrium constants for monomers~~s~~ associates were determined by measuring the intensities of bands of free and bonded hydroxyls in the infrared absorption spectra of solutions of stereoisomer batch alcohols. It was found that for equal conditions the larger equilibrium constants correspond to associates of equatorial isomers, rather than to associates of their axial epimers. The energies of hydrogen bonds, formed by various stereoisomers and corresponding to steric coefficients, were determined from temperature relations of equilibrium constants. It is explained that equatorial isomers form stronger hydrogen bonds than axial isomers. A test to interpret the observed effects was made by obtaining data on the electronic spectra of stereoisomer alcohols in the near and vacuum ultraviolet

Card 1/2

L 49013-65

ACCESSION NR: AR5012262

region.

SUB CODE: OP, OC

ENCL: 00

Card 2/2 (m)

SOKOLOV, D. V.

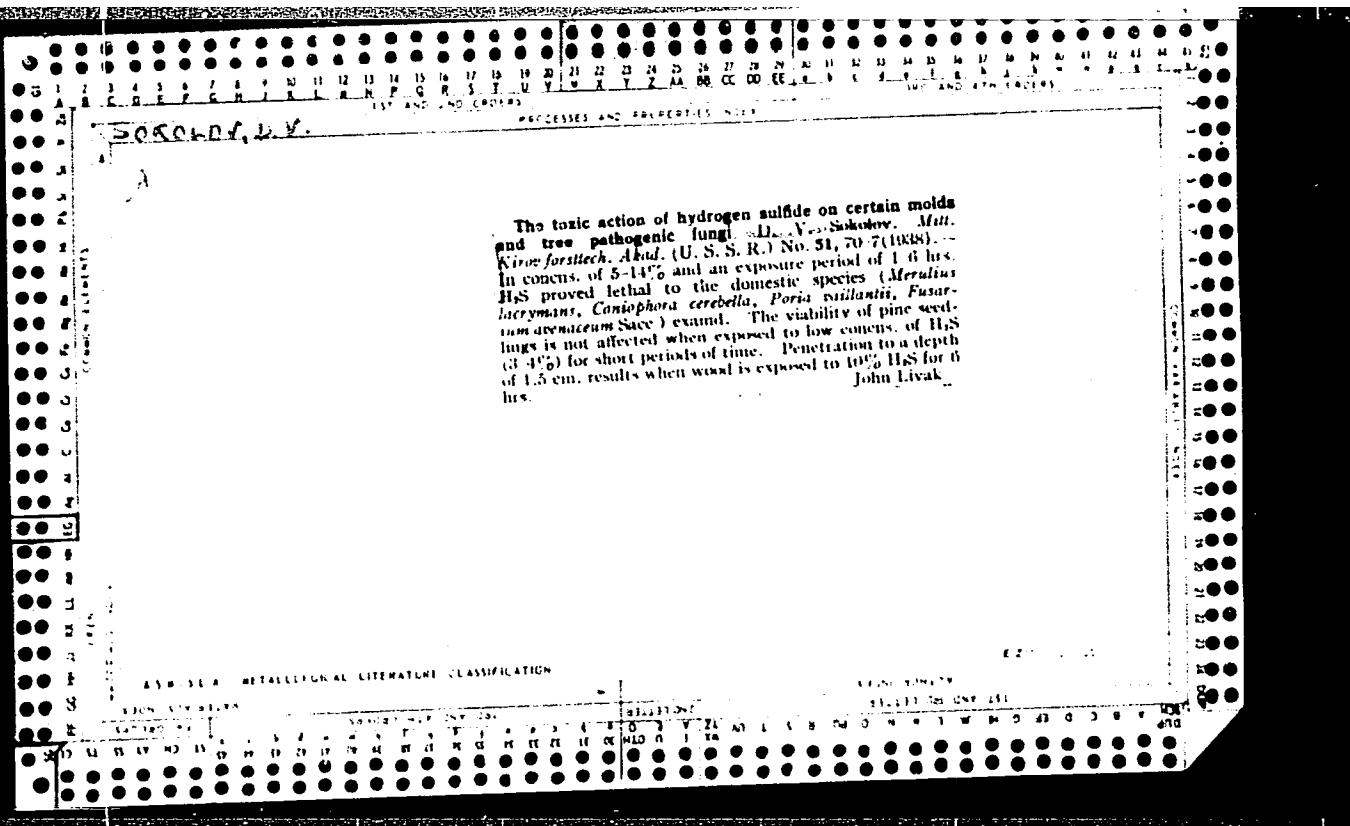
VANIN, S. I., ANDRE V, I. E. AND SOKOLOV, D. V. "On the Effect of Wood-destroying Fungi on Wood Coated with Paint and Varnish," Izvestija Leningradskogo Instituta Bor'by s Vrediteliami v Sel'skom i Lesnom Khoziaistve, no. 3, 1932, pp. 45-46, 423.92 P543

SO: SIRI SI-90-53, 15 Dec. 1953

SOKOLOV, D. V.

"Experiments for Controlling Diseases of Trees in Shelterbelts," Itozi
Naukno-Issledovatel'skikh Rabot Vsesoiuznogo Instituta Zashchity Rastenii
za 1936 Goda, part 1 1937, pp. 238-242. 423.92 L541

So: Sira-Si-90-93, 15 Dec. 1953



SOKOLOV, D. V.

231.34 kornevaya ginal' i nekotoryye drugiye bolezni shelkovitsy v zakavkaz'ye.
v SB: issledovaniya po les. khoz-vu. 1., 1948 na obl: 1/49.7, c.
267-79. - Bibliogr: 5 Nazv.

SO: LEROPIS NO. 31, 1949

SOKOLOV, D.V.

Vanin, S.I. and Sokolov, D.V. "Investigation of the fungicidal characteristics of phytocides and antibiotics", Trudy Lesotekhn. Akad. im. Kirova, No. 63, 1948, p. 113-20,
-Bibliog: 14 items.

SO: U-3042, 11 March 13, (Letopis 'nykh Statey, No. 9, 1949)

SOKOLOV, D. V.

20918 Sokolov, D. V. Bolezni drevesnykh i kustarnikovykh pred i ikh znachenije v polezashchitnykh lesosazhdeniyakh. Izvestiya Vsesoyuz. geogr. o-va, 1949 vyp. 3, s. 282-89. - Bibliogr: 6 nazv.

SC: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949

SOKOLOW, D. V.

"Diseases of Trees and Shrubs and Their Importance in the Shelterbelt Tree Plantings," Izvestiia Vsesoiuznogo Geograficheskogo Obschestva, no. 81, 1949, pp. 282-289. 511 L546.

Sc: Sira-Si-90-53, 15 Dec. 1953

SOKOLOV, D. V.

VANIN, S. I., VOL'KOV, R. S., and SOKOLOV, D. V. "In Regard to Studying the Fungus Diseases of Acorns," Nauchnye Voprosy Polezashchitnogo Lesta Razyedenija, Instut Lesta, Akademija, Nauk SSSR, vol. 1951, pp. 276-284.
99.9 APLN

SO: SIRI SI-90-536 15 Dec. 1953

VAININ, Stepan Ivanovich, professor, 1890-1951; SOKOLOVA, D.V., redaktor;
DRONZHEVSKIY, V.M., redaktor; ARNOL'DOVA, I.S., redaktor; ANEKUDI-
NOV, A.M., retsenzent; VORONTSOV, A.I., retsenzent; KARASIK, N.P.,
tekhnicheskij redaktor.

[Forest phytopathology] Lesnaia fitopatologija. Izd. 4-e, posmertnoe
(perer. i dop.). Pod obshchej red. D.V. Sokolova. Moskva, Goslesbum-
izdat, 1955. 416 p.
(Botany--Pathology)

SOKOLOV, D. V.

AURANOV, Lev Iva. nich, professor (deceased); V. V. N.A., professor;
KHOKHRYAKOV, M.K., doktor biologicheskikh nauk; V. V. V., kandidat
Antsient; SOKOLOV, D.V., dotsent; ZHURAVLEV, I.I., kandidat biologicheskikh
nauk; BREZHNEV, I.Y., kandidat biologicheskikh nauk;
TUGASHINSEKAYA, N.I., redaktor; POPRYADUKHIN, tekhnicheskiy redaktor

[Guide to the lower plants] Opredelitel' nizshikh rastenii; v piati
tomakh. Moskva, Gos.izd-vo "Sovetskaja nauka." Vol.4. [Fungi] Griby.
Pod obshchei red. L.I.Kursanova. 1956. 448 p. (MLRA 10:10)
(Fungi)

USSR / Plant Diseases: Forest Trees.

0-1

Abs Jour: Ref Zhur-Biol., 1958, No 17, 78001

Author : Sokolov, D. V.

Inst : Not given

Title : Honey Fungus and Its Control.

Orig Pub: Tr. Leningr. lesotekhn. akad., 1957, 81, ch. 3,
61-73

Abstract: The fungus Armillaria mellea (Vahl. ex Fr.) Karst affects 200 species of plants, and has spread to all parts of the world. The conditions of temperature, humidity and pH that favor the development of A. emillea are indicated. Prophylactic and therapeutic measures are described for the

Card 1/2

USSR / Plant Diseases. Diseases of Forest Species.

0

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 100556

Author : Vanin, S. I.; Bazhenova, L. A.; Zhuravlev, I. I.;
Sokolov, D. V.

Inst : Leningrad Forest Technology Academy
Title : Phytopathological Condition of Larch Plantings in
Lindulovskaya Grove and Technical Properties of Their
Wood

Orig Pub : Tr. Leningr. lesotekhn. akad., 1957, vyp 82, ch. 1,
105-116

Abstract : A phytopathological survey in 1949 of Lindulovskaya grove,
laid in 1738-1805 in Roshchinskiy forest range in
Leningradskaya oblast', showed a severe infection of
larch tree stands with root rots. 33% of trees were
affected with the root-rot fungus (*Fomes annosus*), 26% -
with Schweinitz pore fungus (*Polyporus schweinitzii*) and

Card 1/3

VAKIN, A.T., prof.; GOLOVIN, P.N., prof., doktor biolog.nauk; DOBROZRAKOVA, T.L., dotsent; ZHURAVLEV, I.I., doktor sel'skokhoz.nauk; POLYAKOV, I.M.; SOKOLOV, D.V., dotsent; STEPANOV, K.M., doktor biolog.nauk; TUPENEVICH, S.M., prof.; FEDORINCHIK, N.S., kand.sel'skokhoz.nauk; FEDOTOVA, T.I., doktor sel'skokhoz.nauk; KHOKHRYAKOV, M.K., doktor biolog.nauk; CHIGAREV, G.A., kand.sel'skokhoz.nauk; YATSENKO, I.P., prof. [deceased]; REUTSKAYA, O.Ye., red.; CHUNAYEVA, Z.V., tekhn.red.

[A phytopathologist's dictionary - reference book] Slovar'-spravochnik fitopatologa. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 414 p.

(MIRA 13:1)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Polyakov).

(Plant diseases--Dictionaries)
(Russian language--Dictionaries)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652010003-3

SOKOLOV, D. Ya.

DECEASED

1962

1964

HYDRAULIC ENGINEER

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652010003-3"

SOKOLOV, Dmitriy Yakovlevich. Prinimal uchastiye YUSHMANOV,
Yu.L., kand. tekhn. nauk; SAFONOV, P.V., red.

[Use of water power] Ispol'zovanie vodnoi energii. Mo-
skva, Kolos, 1965. 445 p. (MIRA 18:10)

SOKOLOV, D.Yu.

Hypersthene from dacite from Glubokoye in Transcarpathia. Min.
sbor. no.5:340-341 '51. (MLRA 9:12)

1. Gosuniversitet imeni Ivana Franko, L'vov.
(Transcarpathia--Hypersthene) (Transcarpathia--Dacites)

SOKOLOV, E.M., inzh.

Gas liberation in extraction drifts of the Moscow Basin.
Izv. vystuchev.zav.,gor.zhur. 7 no. 4:97-99 '64. (MIRA 17:7)

1. Tul'skiy politekhnicheskiy institut. Rekomendovani kafedroy
rudnichney ventilatsii i tekhniki bezopasnosti.

BYKOV, I.B., prof.; KLIUHOV, A.D., dotsent; SOKOLOV, V.N., inzh.
SULIA, M.B., inzh.

Liberation of gas and calculation of the amount of air needed
for sections with powered, movable supports and complexes. Izv.
vys. ucheb. zav.; gor. zhur. 7 no.10:56-60 '64.

(MFA 12:1)

I. Tul'skiy politekhnicheskiy institut. Rekomendovana kafedroy
promyshlennoy aerologii i tekhniki bezopasnosti.

5(3)

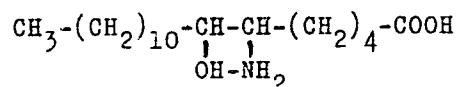
SOV/80-32-4-46/47

AUTHORS: Pigulevskiy, G.V., Kuranova, I.L. and Sokolov, E.V.

TITLE: The Interaction of Ammonia With the Oxide of Petroselinic Acid (Vzaimo-deystviye ammiaka s okis'yu petrozelinovoy kisloty)

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 4, pp 937-938 (USSR)

ABSTRACT: The authors synthesized the oxyaminostearic acid by means of interaction of ammonia with the oxide of petroselinic acid. On the basis of treatment this acid with lead tetraacetate and the analysis of the products resulting from the reaction, the authors conclude that the oxyaminostearic acid should have the structure of 6-amino-7-oxyoctadecanoic acid of the following form:



Card 1/2

SOV/80-32-4-46/47

The Interaction of Ammonia With the Oxide of Petroselinic Acid

Its melting point is 133 - 134^oC. The detailed procedure of obtaining this acid was described in the note.
There are 7 references, 3 of which are Soviet, 2 German, 1 American and 1 French.

SUBMITTED: July 2, 1958

Card 2/2

SOKOLOV, F.

Here they work in a communist way. NTO 5 no.7:22-23 J1 '63.
(MIRA 16:8)

1. Predsedatel' soveta nauchno-tekhnicheskogo obshchestva
Irkutskoy slyudyanoy fabriki.
(Irkutsk--Mica)

SOKOLOV, F.A.; KLIMENOK, B.V.

Kinetics of complexing during the reaction of oil with a carbamide water solution. Izv. vys. uch. zav.; neft' i gaz 5 no.9:57-61 '62. (MIFA 17:5)

1. Ufimskiy neftyanoy institut.

SOKOLOV, F.A.; STANKEVICH, B. Ye.; TOROPTSEV, N.G.

Developing methods for recovering sodium hydroxide from the
alkali wastes of petroleum refining. Trudy Bash NII NP
no.3:153-157 '60. (MIRA 14:4)
(Sodium hydroxide)

SOKOLOV, F.A.; STANKEVICH, B.Ye.; TOROPTSEV, N.G.

Development of methods for the utilization of sulfur removed in
the refining of clear petroleum products. Khim.sera-i azotorg.soed.sod.
v neft,i nefteprod. 3:407-410 '60. (MIRA 14:6)

I. Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke
nefti.

(Sulfur) (Petroleum products)

SOKOLOV, F.A.; FRYAZINOV, V.V.; KLIMENOK, B.V.

Removing paraffins from the filtrates of paraffin production
using aqueous solution of carbamide. Izv. vys. ucheb. zav.;
neft' i gaz 5 no.7:73-76 '62. (MIRA 16:7)

1. Ufimskiy neftyanoy institut.
(Paraffins) (Urea)

S/152/63/000/003/003/005
B117/B186

AUTHORS: Sokolov, F. A., Syrkin, A. M., Klimenok, B. V.

TITLE: Induction period of the complex formation of N-paraffins of petroleum fractions with aqueous carbamide solution

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, no. 3, 1963, 65-70

TEXT: The factors determining duration and character of the induction period were studied. Experiments were made at 25-26°C with filtrates obtained from paraffins of Tuymazy petroleum after extraction of the oil (boiling points up to 300-480°C). The induction period was calculated as the time from the beginning of mixing to the beginning of complex formation attended by a strong increase in temperature. The following processes occurred during this period: development of the contact surface of liquid phases which adsorb the tars from the oil and prevent a contact between the N-paraffin and carbamide molecules. Further dispersion of the system forms free surface and permits complex formation. Adsorbed tars are desorbed and pass over to the surface of the complex. Desorption of tars

Card 1/3

S/152/63/000/003/003/005

Induction period of the complex formation...B117/B186

and their removal from the contact surface enables new crystals to form which, on their part, adsorb tars from the contact surface of the liquid phase, and so forth. Thus an avalanche-like complex formation terminates the induction period. A higher weight ratio aqueous phase / oil shortens the induction period. It is the shorter the faster the surface development, and should be shortened by: (1) more intensive mixing; the contact surface of the liquid phase should be sufficiently large to remove the principal amount of tar from the oil; (2) reducing the viscosity and facilitating the emulsification by adding solvents and admixtures. Experiments with oils of different qualities and component ratios (oil, carbamide, water) showed that a repeated treatment of the oil with aqueous carbamide solution removed only part of the tars. This indicates that two types of tar are present in the petroleum: tar adsorbable on the crystal surface of the complex (I), and non-adsorbable tar (II). The strong inhibiting action of (I) is due to its high oxygen content. Addition of seeds reduced the induction period but did not fully eliminate it. Probably, they removed only (I) while (II) was left causing the short induction period. It is therefore recommended to add only the amount of seed required for removing (I) in order to reach maximum shortening of the induction period.

There are 3 figures and 5 tables.

Card 2/3

S/152/63/000/003/003/005
Induction period of the complex formation ... B117/B186

ASSOCIATION: Ufimskiy neftyanoy institut

(Ufa Petroleum Institute)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010003-3"

SUBMITTED: October 2, 1962

Card 3/3

SOKOLOV, F. A.

32593. Zyablevaya Vspashka --- Reshayushcheye Usloviye Polucheniya Vysokogo Urozhaya Khlopka. Sots. Sel. Khoz=vo Uzbekistana, 1949, No. 3, s. 15-21

SO: Letopis' Zhurnal'nykh Statey, Vol 44, Moskva, 1949

SOKOLOV, E. A.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-23, 20 Feb - 3 Apr. 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
<u>Sokolov, E. A.</u>	"Cotton Growing" Textbook	Ministry of Agriculture Uzbek SSR

SG: V-31004, 7 July 1954

SOKOLOV, F. A.

Dissertation: "Presowing Treatment of the Soil." Cand Agr Sci, Tashkent Agricultural Inst, 1 Jul 54. (Pravda Vostoka, Tashkent, 8 Jun 54)

SO: SUM 318, 23 Dec 1954