

NICOLAU, St.S., academician; SURDAN, C.; SARATEANU, D.; ATHANASIU, P.;
SORODOC, G.; ANAGNOSTE, B.; in colaborare cu ILIESCU, C.; RADESCU, R.

Inframicrobial etiology in the field of cardiovascular diseases. II
Inframicrobiological study of 50 cases. Stud. cercet. inframicrobiol.
no. 4: 525-534 '61.

1. Comunicare prezentata la Institutul de inframicrobiologie al
Academiei R.P.R. (CARDIOVASCULAR DISEASES virology)
(RICKETTSIAL DISEASES) (MYOCARDIAL INFARCT virology)
(RAYNAUD'S DISEASE virology) (THROMBOANGIITIS OBLITERANS virology)

NICOLAU, St. S., acad.; SARATEANU, D.; SURDAN, C.; ATHANASIU, P.; ANAGNOSTE, B.;
SORODOC, G.; ILIESCU, C.; RADESCU, R.; MALITCHI, E.

Viral etiology in cardiovascular diseases. III. Thromboangiitis
obliterans with migratory phlebitis of rickettsial origin. Studii cerc
inframicrobiol 12 no.4:535-541 '61.

1. Institutul de inframicrobiologie al Academiei R.P.R. 2. Membru al
Comitetului de redactie si redactor responsabil "Studii si cercetari
de inframicrobiologie" (for Nicolau) 3. Membru al Comitetului de
redactie "Studii si cercetari de inframicrobiologie" (for Sarateanu).

NICOLAU, St. S., acad.; SARATEANU, D.; ATHANASIU, P.; SURDAN, C.; SORODOC, G.;
ANAGNOSTE, B.

Viral etiology in cardiovascular diseases. IV. Experimental and histological study on some cases of rickettsial thromboangitis obliterans. Studii cerc inframicrobiol 12 no.4:543-549 '61.

1. Institutul de inframicrobiologie al Academiei R.P.R. 2. Membru al Comitetului de redactie si redactor responsabil. 3. Membru al Comitetului de redactie "Studii se cercetari de inframicrobiologie" (for Sarateanu)

+

NICOLAU, St. S., academician; ATHANASIU, Pierrette; SURDAN, C.; SARATEANU, D.;
SORODOC, G.; ANAGNOSTE, B.; in colaborare cu ILIESCU, C.; RADESCU, R.;
VELCIU, V.; MARDARE, I.

Viral etiology of cardiovascular diseases. VI. Histopathological evidence of rickettsial or pararickettsial infection in thromboangiitis and myocardial infarct. Stud. cercet. inframicrobiol. 13 no.1:19-26 '62.

(THROMBOANGIITIS OBLITERANS virology)
(MYOCARDIAL INFARCT virology)
(CARDIOVASCULAR DISEASES virology)
(RICKETTSIAL DISEASES)

NASTAG, E.; ANAGNOSTE, B.; BALMUS, Gh.

Experimental research on murine leukemia. III. Results of intracerebral passage in heterologous species of the filtrable factor of tumors from leukemic mice of the AKm strain. Stud. cercet. inframicrobiol. 13 no.1: 51-56 '62.

(LEUKEMIA experimental)

NICOLAU, St.S., academician; SURDAN, C.; SARATEANU, D.; ATHANASIU, Pierrette;
SOROLOC, G.; ANAGNOSTE, B.; in colaborare cu ILIESCU, C.; RADESCU, R.

Inframicrobiol etiology of cardiovascular diseases. VII. Experimental,
serological and histopathological studies. Stud. cercet. inframicrobiol.
13 no.2:145-161 '62.

(CARDIOVASCULAR DISEASES virology) (VIRUS DISEASES)
(RAYNAUD'S DISEASE virology) (PHLEBITIS virology)
(CORONARY DISEASE virology) (RICKETTSIAL DISEASES)

2000.11

B. AMAROCSTE, D. SAMATEANU, C. SULEAN and G. SCROLOU, (Affiliation as above)

"Distribution of Ornithosis - Psittacosis Virus Particles in Non Embryonated Eggs."

Bucharest, *Anuial si Cercetari de Infamicrobiologie*, Vol 10, No 6, 1962; pp 725-730.

Abstract [English summary modified]: Study in 220 embryonated eggs revealed that inoculation of ornithosis virus into allantoic space produced a rather even distribution of viral particles throughout the egg, suggesting that a great saving may be possible by using the whole egg to prepare antigens for serologic studies and vaccine manufacture. One Czech, 1 Japanese, 3 Romanian, 14 Western references.

1/1

CAJAL, M.; RATIU, D.; ALEXANDRESCU, M.M.; CUPCEANCU, B.; in colaborare cu
SURDAN, C.; POPESCU-DANESCU, G.; ANAGNGSTE, B.; SORODOC, G.

The role of Ricksettsias and Pararickettsias in pregnancy pathology.
I. Investigations of the relation between rickettsial and pararickettsial
infections in mothers and neonatal mortality. Stud. cercet. inframicrobiol.
13 no.6:659-665 '62.

1. Comunicare prezentata la Institutul de inframicrobiologie al
Academiei R.P.R.

(RICKETTSIAL DISEASES)	(PREGNANCY COMPLICATIONS)
(INFANT MORTALITY)	(ABORTION) (FETAL DISEASES)

NICOLAU, St.S.; SURDAN, C.; SARATEANU, D.; ATHANASIU, P.; SORODOC, G.;
ANAGHOSTE, B.; with the collaboration of ILIESCU, C.; RADESCU, R.

Viral etiology in cardiovascular affections. II. A virological
study of 50 cases. Rev. sci. med. 7 no.1/2:87-91 '62.

1. Member of the Academy of the R.P.R. (for Nicolau).
(RICKETTSIAL DISEASES) (CARDIOVASCULAR DISEASES)

NICOLAU, St.S.; SARATEANU, D.; SURDAN, C.; ATHANASIU, P.; ~~ANAGNOSTE, R.~~;
~~SORODOG, G.~~; with the collaboration of ILIESCU, C.; RADESCU, R.;
MALITCHI, E.

Viral etiology in cardiovascular affections. III. Thromboangiitis
obliterans with migratory phlebitis of rickettsial origin. Rev. sci.
med. 7 no.1/2:93-97 '62.

1. Member of the Academy of the R.P.R. (for Nicolau).
(THROMBOANGIITIS OBLITERANS) (THROMBOPHLEBITIS)
(RICKETTSIAL DISEASES)

NICOLAU, S. St.; SARATEANU, D.; ATHANASIU, P.; SURDAN, G.; SORODOC, G.;
ANAGNOSTE, B.

Viral etiology in cardiovascular affections. IV. Experimental and histopathological study of some cases of rickettsial thromboangitis obliterans. Rev. sci. med. 7 no.1/2:99-103 '62.

1. Member of the Academy of the R.P.R. (for Nicolau).
(THROMBOANGIITIS OBLITERANS) (RICKETTSIAL DISEASES)

ILIESCU, C.C., prof.; RADESCU, Radu; in collaboration with NICOLAU, St. S., prof.;
SURDAN, C.; SARATEANU, D.; ATHANASIU, P.; ANAGNOSTE, B.; SORODOC, G.

Some data on the role of germs belonging to the rickettsia and
pararickettsia groups in the aetiology of certain cardiovascular
affections. Rumanian med. rev. no.8:35-40 '62.

(RICKETTSIAL DISEASES) (CARDIOVASCULAR DISEASES)

CAJAL, M.; HERSCOVICI, P.; TEODORU, G.; GROSU, L.; in colaborare cu SURDAN, C.;
ANAGHESCU, B.; POPESCU-DANESCU, G.; SORODOC, G.

The role of Rickettsias and Pararickettsias in pregnancy pathology.
II. Investigations of the relation between rickettsial and pararickettsial
infections in mothers and the occurrence of congenital malformations.
Stud. cercet. inframicrobiol. 13 no.6:667-673 '62.

1. Comunicare prezentata la Institutul de inframicrobiologie al
Academiei R.P.R.

(RICKETTSIAL DISEASES) (PREGNANCY COMPLICATIONS)
(ABNORMALITIES)

ANAGNOSTE, B.; SARATEANU, D.; SURDAN, C.; SORODOC, G.

Distribution of ornithosis-psittacosis germs in embryonated hen egg.
Stud. cercet. inframicrobiol. 13 no.6:725-730 '62.

1. Comunicare prezentata la Institutul de inframicrobiologie al
Academiei R.P.R.

(MIYAGAWANELLA)

ILIESCU, C.C., prof.; RADESCU, Radu, dr. (ASCAR); in colaborare cu: acad.
NICOLAU, St. S.; SURDAN, C., dr.; SARATEANU, D. dr.; ATHANASIU, P., dr.;
ANAGNOSTE, B., dr.; SORODOC, Gh., dr.

Some data on the role of microorganisms of the rickettsial and
pararickettsial groups in the etiology of several cardiovascular
diseases. Med. intern. 14 no.4:615-620 My '62.

1. Institutul de inframicrobiologie.
(THROMBOANGIITIS OBLITERANS) (CORONARY DISEASE)
(MYOCARDIAL INFARCT) (ARTERIOSCLEROSIS) (RAYNAUD'S DISEASE)
(RICKETTSIAL DISEASES) (ORNITHOSIS)

SURDAN, C.; CAJAL, M.; ANAGNOSTE, B.; ATHANASIU, Pierrette;
POPESCU-IANESCU, G.; SORODOC, G.

Research on the role of rickettsias and pararickettsias in
pregnancy pathology. Rev. sci. med. 8 no. 1/2:15-18 '63.

(PREGNANCY COMPLICATIONS) (RICKETTSIAL DISEASES) (ABORTION)
(ABNORMALITIES)

NICOLAU, St. S.; SURDAN, C.; SARATEANU, D.; ATHANASIU, Pierrette;
ANAGNOSTE, B.; SORODOC, G.; POPESCU, G.; en collaboration
~~avec ILIESCU, G.; RADESCU, R.; MALITCHI, E.~~

Study on the rickettsial etiology of various angiopathies.
Rev. sci. med. 8 no. 1/2:69-73 '63.

1. Membre de l'Academie de la Republique Populaire Roumaine
(for St.S. Nicolau).
(RICKETTSIAL DISEASES) (VASCULAR DISEASES)

NASTAC, E.; ANAGHOSTE, B.; BALMUS, G.

Experimental investigations in murine aka leukemia. Neoplasma 10
no.1:51-59 '63.

1. Institute of Inframicrobiology of the R.P.R. Academy, Bucarest,
Roumania.

(LEUKEMIA, EXPERIMENTAL)	(NEOPLASMS, EXPERIMENTAL)
(PATHOLOGY)	(LIVER) (BRAIN) (LUNG NEOPLASMS)
(KIDNEY)	(RABBITS) (TUMOR VIRUSES)

NASTAC, E.; ANAGNOSTE, B.; BALMUS, G.; TARCHILA, D.

Experimental investigations in human leukemia attempts at transmission to the hybrid white mouse. Neoplasma 10 no.1:61-64 '63.

1. Institut of Inframicrobiology of the R.P.R Academy, Bucarest, Roumania.

(LEUKEMIA, LYMPHOCYTIC) (LEUKEMIA, EXPERIMENTAL)

NASTAC, E.; ANAGHOSTE, B.

Experimental investigations on the oncolytic action of certain viruses.
Neoplasma 10 no.1:65-74 '63.

1. Institute of Inframicrobiology of the R.P.R. Academy, Bucarest,
Roumania.

(AVIAN LEUKOSIS VIRUS)	(MUMPS VIRUS)	
(CARCINOMA, ERHLICH TUMOR)	(VACCINIA VIRUS)	(HERPESVIRUS)
(NEOPLASMS, EXPERIMENTAL)	(TUMOR VIRUSES)	(VIRUSES)
(FOWL PLAGUE VIRUS)		

SARATEANU, D.; SURDAN, G.; SORODOC, G.; ANAGNOSTE, B.; STEFANESCU, I.;
in colaborare cu: POPESCU, Ar.

Research on the incidence of anti-ornithosis antibodies in
horses and men. Stud. cercet. inframicrobiol. 14 no.2:131-134
'63.

1. Comunicare prezentata la Institutul de inframicrobiologie
al Academiei R.P.R.

(MIYAGAWANELLA)	(ANTIBODIES)
(HORSE DISEASES)	(ZOOLOSES)

RUMANIA

C. SURDAN, D. SARATEANU, C. POPESCU, B. ANAGHOSIE, G. SORODOC, P. ATHANASIU and I. STEPA NESCU [see affiliation above and also] Polyclinic (Policlinica) "13 Septembrie," [Bucharest.]

"Studies on the Rickettsial or Pararickettsial Etiology of Certain Thrombophlebitides."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 14, No 2, 1963; 161-170.

Abstract [English summary modified]: Positive or doubtful rickettsial microagglutination tests were found in 28 out of 39 patients with thrombophlebitis obliterans, 3 of 4 erythema nodosum, all 5 with thromboangitis obliterans; but only 5 of 11 with other diseases. Of the 36 serologically positive, 24 reacted with *Rickettsia burneti*; from the venous blood of 3 patients *Rickettsia* strains were isolated, including *R. burneti* in 2 instances. Tetracyclines were found effective therapy in thrombophlebitic affections. Much reference to Giroud's data from French Morocco. Four tables; 5 French and 11 Rumanian references.

1/1

SARATEANU, D.; SUIDAN, C.; SORODOC, G.; ANAGNOSTE, B.; STEFANESCU, I.
in colaborare cu DUMA, M.; MARTA, M.; VASILE, C.; FLORESCU, T.;
PAICU, P.

Research on active immunization against ovine enzootic
abortion. Immunological study in various epizootiological
conditions. Stud. cercet. inframicrobiol. 14 no.3:283-294
'63.

(ABORTION, VETERINARY) (SHEEP DISEASES)
(RICKETTSIAL DISEASES) (IMMUNOLOGY)

RUMANIA

FILIPESCU, Z., MD.; CURELARI, I., MD.; ANAGNOSTE, MD.; CEAUSU, M., MD.;
FAGARASANU, R., MD.

Surgical Clinic II of the Emergency Clinical Hospital "I. C. Primu",
Bucharest (Clinica a II-a de chirurgie a Spitalului clinic de
urgenta "I. C. Primu", Bucuresti); Director: Professor I. TUNAI -
(for all)

Bucharest, Viata Medicala, No 15, 1 Aug 63, pp 1041-1045

"Acute Poisoning with Hydrazide."

SCHACHTER, A.; CAJAL, N.; CELEANU, M.; SARATEANU, D.; SORODOC, Y.;
ANAGNOSTE, V.

Further data concerning the viral etiology of malignant lymphogranulo-
matosis (Hodgkin's disease). Stud. cercet. inframicrobiol. 13 no.4:
449-454 '62.
(HODGKIN'S DISEASE) (TUMOR VIRUSES)

MOGOS, Gh., dr., candidat in stiinte medicale; ANAGNOSTE, V., dr.

Changes in plasmatic fibrinolytic activity in patients with cardiovascular diseases. Med. intern. (Bucur.) 17 no.9:1103-1109 S '65.

1. Lucrare efectuata in Clinica medicala a Spitalului de urgenta, Bucuresti (director: prof. C. Gh. Dimitriu).

ANAGORSKIY, L.A., kand. tekhn. nauk; KOSHKHA, A.P., inzh.

Welding of transformer steel. Svar. proizv. 12:13-14 D '63.
(MIRA 18:9)

SCHACHTER, A., dr.; ROSALA, E., dr.; GEORGESCU, I.St., dr.; ANAGNOSTE, V., dr.

Pain caused by alcohol in Hodgkin's disease. (Considerations on a vertebral localization revealed by the alcbhol test). Med. intern. 14 no.10:1211-1216 0 '62.

1. Lucrare efectuata in Clinica medicala "I.C. Frimu" (director: prof. C. Gh. Dimitriu), Bucuresti.
(ALCOHOL, ETHYL) (HODGKIN'S DISEASE) (SACROILIAC REGION)
(ILIUM) (SPINAL NEOPLASMS)

ANAGNOSTI, Petar V., ins.

Computation of earth dam stability. Gradevinar 14 no.10:341-344 0
'62.

1. Energoprojekt, Beograd.

ANAGNOSTI, Petar, dr (Beograd)

Rock mechanics and theory of boundary balance. Gradevinar 16
no.5:181-186 My '64.

ANAGNOSTI, Patar, inž. projektant (Beograd, Timocka 9)

Solution for a solid cylinder under triaxial load. Tehnika Jug:
Suppl.: Građevinarstvo 17 no.2:245-253 Fe '63.

1. Produzeca Energoprojekt, Beograd.

ANAGNOSTI, Petar, inz.; (Beograd); RADUKIC, Vladimir, inz. ((Beograd)

Determination of the filtration coefficient (Darcy law)
in the rock mass. Gradevinar 15 no.10:362-368 0'63.

ANAGNOSTI, Vladimir, N.
SURNAME (in caps); Given Names

Country: Yugoslavia

Academic Degrees: Dr.

Affiliation: Travnik

Source: Belgrade, Narodno zdravlje, No 7-8, 1961, pp 248-253.

Data: "The Influence of Normal Lactation and Premature Ablactation on the
Physical Development of Infants."

KOROLEV, S., inzh.; LAVRENT'YEV, V., inzh.; ANAGORSKIY, L., red.;
ROMANNIKOV, F., red.izd-va; KARZHAVINA, Ye., tekhn.red.

[Build-up welding of standard parts] Naplavka tipovykh detalei. Lipets, Lipetskoe knizhnoe izd-vo, 1962. 65 p.

(MIRA 17:3)

1. Svarochnoye byuro Lipetskogo traktornogo zavoda (for Korolev, Lavrent'yev).

FOMINOV, A. Ya., inzh.; ANAGORSKIY, L. A., kand.tekhn.nauk, dotsent

Efficient layout of billets for heating in an electrolyte. Vest.
mash. 40 no.6:57-60 Je '60. (MIRA 13:8)
(Electric heating)

FOMINOV, A.Ya., starshiy prepodavatel'; ANAGORSKIY, L.A., kand. tekhn. nauk,
dot ent;

Calculation of baths and circulation systems in electrolytic
heating units. Izv. vys. ucheb. zav.; mashinostr. no.3:173-180
'64. (MIRA 17:7)

1. Ryazanskiy radiotekhnicheskiy institut.

ANANHASIAN, V.E., TULYAKOVA, L.S.

Circular mechanical suture of the right iliac artery injured and
ligated during herniorrhaphy. Khirurgia 34 no.8:126-129 Ag '58
(MIRA 11:9)

1. Iz Instituta imeni Sklifosovskogo (dir. - zaslyzhenny vrach
USSR M.M. Tarasov, glavnyy khirurg. - prof. B.A. Petrov. zav.
klinikoy - prof. P.I. Androsov, zav. otdeleniyem N.V. Khoroshko).
(ARTERIES, ILIAC, wds. & inj.

in right inguinal herniorrhaphy, circular mechanical
suture in repair (Rus))

(HERNIA, INGUINAL, surg.

herniorrhaphy causing right iliac artery inj.,
circular mechanical suture in repair (Rus))

ANAKHASYAN, V. R.

Single stage arteriography of the blood vessels of the lower
extremities. Khirurgia no.2:48-51 '62. (MIRA 15:2)

1. Iz Moskovskogo gorodskogo nauchno-issledovatel'skogo instituta
skoroy pomoschi imeni N. V. Sklifosovskogo (dir. - zasluzhennyy
vrach USSR M. M. Tarasov, glavnyy khirurg - zasluzhennyy deyatel'
nauki RSFSR chlen-korrespondent AMN SSSR prof. B. A. Petrov)

(ANGIOGRAPHY)

ANAKHASYAN, V.R.; OSTROVSKAYA, I.M.; FOKINA, A.A.

Case of atresia of the inferior vena cava. Khirurgiia 39 no.7:
127-128 JI'63 (MIRA 16:12)

1. Iz 2-y khirurgicheskoy kliniki (zav. - chlen-korrespondent
AMN SSSR, zasluzhennyy deyatel' nauki prof. B.A. Petrov) Mos-
kovskogo gorodskogo nauchno-issledovatel'skogo instituta skoroy
pomoshchi imeni N.V. Sklifosovskogo (dir. - zasluzhennyy vrach
UkrSSR M.M. Tarasov).

SHCHERBATENKO, M.K., kand. med. nauk; ANAKHASYAN, V.R.; OSTROVSKAYA, I.M.;
FEL'DMAN, F.TS.

Azygography in gastrointestinal hemorrhage. Khirurgiia 40 no.1:
119-123 Ja '64.
(MIRA 17:11)

L. Moskovskiy gorodskoy nauchno-issledovatel'skiy institut skoroy
pomoshchi imeni N.V. Sklifosovskogo (dir. M.M. Tarasov, nauchnyy
rukovoditel' - chlen-korrespondent AMN SSSR prof. B.A. Petrov).

Anakheva / S

When the body occurred in TULING IV is covered to dress
and washed in other place also the body of the

ANAKHOVICH, Ye.D.

Conference of active members of the Altai Territory Red Cross.
Zdrav. Res. Feder. 2 no.5:44-47 My '58. (MIRA 11:5)
(ALTAI TERRITORY--RED CROSS)

БИБЛИОТЕКА

SIDOROV, F.F.; ZGIRSKIY, Ch.I.; ANAKIN, I.A.; YERAKHTIN, D.D., kandidat
tekhnicheskikh nauk, retsenzent; SUBOLEV, L.A., inzhener, retsenzent;
BUSHUYEV, N.M., kandidat tekhnicheskikh nauk, redaktor; SHABASHOV, A.P.,
kandidat tekhnicheskikh nauk, redaktor.

[Repair of agricultural machinery] Remont sel'skokhoziaistvennykh
mashin. Sverdlovsk, Gos. nauchno-tekhn. izd-vo mashinostroit. i
sudostroit. lit-ry [Uralo Sibirskoe otd-nie] 1953. 295 p. (MLRA 7:6)
(Agricultural machinery--Repairing)

ANAKIN, I.A.; GUTMAN, I.M., inzhener, retsenzent; VAGANOV, A.K., kandidat
tekhnicheskikh nauk, redaktor; DUGINA, N.A., tekhnicheskiiy redaktor.

[Repair of agricultural machinery parts] Vosstanovlenie detalei sel'-
skokhoziaistvennykh mashin; obobshchenie peredovogo opyta. Moskva,
Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry, 1954. 89 p.
(Agricultural machinery--Repairing) (MIRA 8:4)

АВТОРИТ. ТРАД. АДДА. АНТИ. В. 1. 1. 1.

N°5
723.1
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1955

РЕМОНТ СЕЛ'СКОХОЗЯЙСТВЕННИХ МАШИН (REPAIR OF AGRICULTURAL MACHINES, BY)

1. А. АНАКИН (1 ДР.) ИЗД. 2., ИСПР. I ДОП. МОСКВА, МАШГИЗ, 1955.

332 П. ИЛЛЮС., ДИАГРАМ., ТАБЛИЦЫ.

"ЛИТЕРАТУРА": П. 329.

ANAKIN, I. A.

Anakin, I. A.

"The Problem of the Causes of Clogging of the Conveyors of a Grain Combine under the Conditions of Western Siberia." Min Higher Education USSR. Chelyabinsk Inst of the Mechanization and Electrification of Agriculture. Novosibirsk, 1955. (Dissertation for the Degree of Candidate in Technical Science.)

SO: Knizhnaya Letopis'
No. 27, 2 July, 1955

ANAKIN, I.A., inzhener.

Analyzing the working process of screw conveyors on a combine.
Sel'khoz mashina no.2:5-10 F '56. (MLRA 9:5)
(Combines (Agricultural machinery))

ANAKIN, Ivan Aleksandrovich; BUSHUYEV, N.M., kand.tekhn.nauk, retsenzent;
SARAFANIKOVA, G.A., tekhn.red.

[Mechanization of stock farms; feed preparation and water supply]
Mekhanizatsiia zhivotnovodcheskikh ferm; kormoprigotovlenie i vodo-
snabzhenie. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry,
1957. 119 p. (MIRA 11:2)
(Farm equipment) (Stock and stockbreeding)

ANAKIN, I.A.

Analyzing the operation of combine worms. Trakt. i sel'khozmasb.
no.1:24-26 Ja '59. (MIRA 12:1)
(Combines (Agricultural machinery))

ANAKIN, Ivan Aleksandrovich; NIKITINA, V., red.; TRUKHINA, O.N.,
tekh. red.

[Laboratory exercises in the mechanization of stockbreeding]
Praktikum po mekhanizatsii zhivotnovodstva. Moskva, Sel'khoz-
izdat, 1962. 155 p. (MIRA 15:11)
(Stock and stockbreeding—Equipment and supplies)

USSR .

3449 AERE-Lib/Trans-499

ON THE INTERRELATION BETWEEN THE HYDRODYNAMICS OF STEAM-WATER MIXTURES, THE TEMPERATURE DISTRIBUTION IN A METAL AND THE DEPOSITION OF EASILY SOLUBLE SALTS IN HORIZONTAL STEAM-GENERATING PIPES. M. A. Syrikovich, Z. L. Miropolskii, and N. M. Anakin. Translated by J. B. Sykes from *Izvest. Akad. Nauk S.S.S.R., Otdel. Tekh. Nauk* 432-48 (1953). 10p.

Several series of experiments have been performed in a closed circulating system including heated vertical and horizontal portions of steam-generating pipes of various diameters. It was found that deposition of NaCl and Na_2SO_4 took place in the horizontal parts of boiler pipes when the temperatures of the upper part of the pipe wall were higher than those of the lower part. The probability of the occurrence of deposition increases with pressure. (M.P.G.)

L 46812-66

ACC NR: AT6020496

SOURCE CODE: CZ/2514/65/000/051/0047/0048

AUTHOR: Gnevyshev, M. N. ; Analova, A. 15
B+/

ORG: [Gnevyshev] Pulkovo Observatory; [Antalova] Astronomical Institute of the Slovak Academy of Sciences, Skalnaté Pleso

TITLE: Distribution of sunspots by heliographic latitude for an eleven-year cycle

SOURCE: Ceskoslovenska akademie ved. Astronomicky ustav. Publikace, no. 51, 1965. 3rd Consultation on Solar Physics and Hydromagnetics, Tatranska Lomnica, 13-16 October 1964, 47-48 and inserts

TOPIC TAGS: sunspot, sunspot cycle, heliographic latitude

ABSTRACT: On the basis of previous works, the author analyzes the distribution and frequency of appearance of sunspot areas in heliographic latitudes from the 12th to the 18th sunspot cycle. The same method is used for the areas and the frequency of appearance of new spot groups. The figures in the original article show the distribution of new spot areas in different zones with the curves plotted

Card 1/3

L 46812-66

ACC NR: AT6020496

from annual values, and the distribution of sunspot areas with curves reduced so that the sunspot areas of all zones in one hemisphere of each cycle are taken as 100%. This was done in order to eliminate the influence of the 80-yr period. These normalized curves were used to determine the mean distribution of sunspot areas for the different zones during the eleven-year cycle. The normalized curves are superposed in two different ways, both represented in a figure included in the original article. Two distinct maxima are obtained. The same result is obtained when the frequency of appearance of new spot groups is considered instead of the area. The shape of the individual original curves is the criterion for determining which approach is the more accurate. In cycles in which the time difference between the two maxima forming the solar cycle is small, they seem to form a single peak. When the two maxima are low and the time difference is considerable, two maxima are observed with mean latitudes differing by some 15° . Therefore, the mean curve of a typical solar cycle cannot be obtained by taking the maxima of different cycles as the starting points. In the discussion following the article, one of the authors affirms that the two bursts of activity are seen distinctly in both hemispheres, and that the evolution of sunspot groups in the butterfly diagram has

Card 2/3

ANAKYAN, A. K.

"The Problem of Lake Sevan Must be Solved in a New Way." (On the Preservation of the water level of Lake Sevan). Izv. Ak Nauk ARM SSR, seriya tekhn. nauk, vol. 10, no. 5, pp. 9-10, 1957.

USSR / Soil Science. Cultivation. Improvement. Erosion.

J-4

Abs Jour : Ref Zhur - Biologiya, No 16, 1958, No. 72736

Author : Anakyan, G. T.

Inst : Armenian Scientific-Research Institute of Hydroengineering
and Amelioration

Title : Irrigation Character of Underground Waters of the Ararat
Plain as Regards Qualitative-Quantitative Chemical
Composition

Orig Pub : Tr. Arm. n.-i. in-ta gidrotokhn. i molior., 1957, 2,
145-161

Abstract : It is shown that drain waters which were pumped from
the fields of the Ararat Plain and collected in the
Arax River are characterized by weak mineralization
(0.5-1.3 g/l dense residue) and can be utilized for
irrigation of agricultural crops. Underground waters
of the Ararat Plain are also useful for irrigation and

Card 1/2

PODBORSKIY, L.Ye.; GAREBUZOV, Z.Ye.; ANAN'YEV, A.A., -kand. tekhn.
nauk, dots., retsenzent [deceased]; DOBROVSKIY, N.G.,
doktor tekhn. nauk, red.

[Continuous excavators; bucket construction excavators.
Atlas of designs] Ekskavatory nepreryvnogo deistviia;
mnogokovshovye stroitel'nye ekskavatory. Atlas konstruk-
tsii. Moskva, Mashinostroenie, 1964. 148 p.
(MIRA 17:5)

LIVANOV, M.N.; ANAL'YEV, V.M., Moskva

Electrophysiological study of the spatial distribution of the cerebral cortex activity in rabbits. *Fiziol.skur.* 41 no.4:461-469 J1-Ag '55. (MLRA 8:10)

(CEREBRAL CORTEX, function tests,
electrophysiologic determ. of distribution of
funct. in various areas)

17 (3, 12)

SOV/16-60-4-10/47

AUTHOR: Ananashchenko, N.I., Nekhotenova, Ye.I. and Leonova, A.A.

TITLE: Methods of Determining Diphtheria Antitoxin in Immune Sera

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1960, Nr 4, pp 44 - 47 (USSR)

ABSTRACT: The authors made a comparative study of Römer's and Jensen's methods of titrating diphtheria antitoxin in immune sera, and of K.T. Khalyapina's modifications of these methods which are generally used in the Soviet Union. The results obtained with the original and with the modified methods diverged. The modified methods proved the diphtheria antitoxin content in the sera to be lower than by the original methods. This is because the modified methods take no account of the assumed titer of the serum but titrate all sera at 1:20,000 AU. Moreover, the modified Jensen's method does not include a control batch of tests, so that corrections based on the individual reactivity of the rabbit cannot be introduced into the results. The authors conclude that, for correct results, Jensen's and Römer's original methods should be used. To decide at what level to titrate the sera under test, a series of

Card 1/2

MOSCOVICI, I., dr.; ANANASIU, T., dr.; TANASESCU, Doina, dr.

Pickwick syndrome. Med. intern. (Bucur) 16 no.9:1091-1094
S '64.

1. Lucrare efectuata in Serviciul de medicina interna al
Spitalului "Dr. V. Babes", Bucuresti.

ANANASYAN, Levor. Sergeyevich; VASIL'YEVA, Mayya Vladimirovna,
dots.; GUREVICH, Grigoriy Borisovich; IL'IN, Aleksandr
Sergeyevich; KOZ'MINA, Tat'yana Leonidovna; REDOZUBOVA,
Ol'ga Sergeyevna; DOLGOPOLOV, V.G., red.

[Problems in elementary geometry; textbook for pedagogical
institutes] Sbornik zadach po elementarnoi geometrii; po-
sobie dlia pedagogicheskikh institutov. Izd.2., perer. Mo-
skva, Prosveshchenie, 1964. 93 p. (MIRA 17:7)

BERG, S.L., polkovnik; VOROB'YEV, V.I., kapitan pervogo ranga; GIL'BO, G.M., kapitan pervogo ranga; ANANCHENKO, A.A.; BALAKSHINA, M.M.; BANNIKOV, B.S., kapitan vtorogo ranga; BAKHTINA, G.F.; BERENSHTAM, N.V.; BUTYRINA, N.Ya.; VOROB'YEV, V.I., kapitan pervogo ranga; GASS, I.P.; GINBYSH, N.S.; GLADIN, D.F., polkovnik; GOLOVANOV, L.G., kand. ist. nauk; GOLUBEVA, Z.D., kand. filol. nauk; GONCHAROVA, A.I.; ZANADVOROVA, R.N.; IVANOVA, N.G.; KARAMZIN, G.B.; KOVAL'CHUK, A.S.; KRONIDOVA, V.A.; LITOVA, Ye.I.; MOLCHANOVA, T.I.; OKUN', L.S.; POCHEBUT, A.N.; RAYTSES, V.I.; SAVINOVA, G.N.; SENICHKINA, T.I.; SKRYNNIKOV, R.G., kand. ist. nauk; FURAYEVA, I.I.; CHIZHOVA, N.N.; YASINSKAYA, L.F.; GLADIN, D.F., polkovnik; LABETSKIY, Ye.F., podpolkovnik; LEBEDEV, S.M., kapitan pervogo ranga; ORDYNSKIY, N.I., kapitan pervogo ranga; NADVODSKIY, V.Ye., podpolkovnik; DEMIN, L.A., inzh.-kontr-admiral, glav. red.; FRUMKIN, N.S., polkovnik, zam. otv. red.; LEVCHENKO, G.I., admiral, red.; BAKHTINA, G.F., tekhn. red.

[Naval atlas] Morskoi atlas. n.p. Izd. Glavnogo Shtaba Voenno-Morskogo Flota. Vol.3. [Naval history] Voenno-istoricheskii. Pt.1. [Text for the maps] Opisaniia k kartam. 1959. xxii, 1942 p. (MIRA 15:5)

1. Russia (1923- U.S.S.R.) Ministerstvo oborony.
(Naval history)

SHLYAKHTIN, Ye.I.; ZHOROVA, A.G.; ANANCHENKO, M.V.; GRISHUTIN, V.G.;
IVANOV, V.I.; DORONIN, A.A.; POPOVA, M.S., inzh.; TARASENKO, I.I.;
ROMANOV, A.I.; ZHUKOV, A.V.; LAPTEV, G.I., inzh.

Who should perform the forwarding and carrier services?
Zhel. dor. transp. 45 no.6:42-45 Je '63. (MIRA 16:7)

1. Zamestitel' nachal'nika stantsii Smolensk Moskovskoy dorogi po gruzovoy rabote (for Shlyakhtin). 2. Nachal'nik pogruzkontory stantsii Smolensk Moskovskoy dorogi (for Zhorova). 3. Zaveduyushchiy gruzovym dvorom stantsii Smolensk Moskovskoy dorogi (for Ananchenko). 4. Nachal'nik tovarnoy kontory stantsii Smolensk Moskovskoy dorogi (for Grishutin). 5. Zaveduyushchiy konteynernoy ploshchadkoy stantsii Smolensk Moskovskoy dorogi (for Ivanov). 6. Sekretar' partiynogo byuro stantsii Smolensk Moskovskoy dorogi (for Tarasenko). 7. Stantsiya Smolensk Moskovskoy dorogi (for Doronin, Romanov, Popova). 8. Upravlyayushchiy Smolenskim oblastnym avtotrestom (for Zhukov).
(Freight and freightage)

ANANCHENKO, N. P.

"Advantages and Disadvantages of the Intercity Telephone Station of the MRU Type," Vest. Svyazi, No.3, pp 18-19, 1954.

Chief Engineer, Saratov Intercity Telephone Station

Translation Trans, No.533, 6 Apr 56

ANANCHENKO (N.P.)

111-58-5-19/27

AUTHORS: Ananchenko, N.P., Chief Engineer of the Saratov MTS and Perkis, D.V., Chief of the Technical Service Laboratory.

TITLE: The Mechanization and Automation of Operational Processes at the Saratov MTS (Mekhanizatsiya i avtomatizatsiya proizvodstvennykh protsessov na Saratovskoy MTS).

PERIODICAL: Vestnik Svyazi, Nr 5, 1958, p 33(USUR).

ABSTRACT: Several measures for mechanizing and automating operational processes have been taken at the Saratovskaya mezhdugorodnaya telefonnaya stantsiya (the Saratov Interurban Telephone Office). At the same time, the introduction of semi-automatic equipment into the oblast' communication service is being continued. Conforming to the recommendations of the "TsNIIS", the "MTS" workers manufactured the "OKDN", "RKDN" and "SK" type units which cut down the required number of telephone operators. Ten outgoing semi automatic units have been put into operation, and 10 incoming ones are being assembled. Last year the transportation of order forms was mechanized utilizing the experience of the Rostov "MTS" in chuckless pneumatic mail systems. The Transportation of order forms to the distributing and observing desk is assured by the shuttle conveyer. A chuck pneumatic mail system was developed and assembled by the "MTS" wor-

Card 1/2

111-58-5-19/27

The Mechanization and Automation of Operational Processes at the Saratov MTS .

kers. It is utilized for transporting telegrams from the "MTS" information desk to the telegraph office. There are 4 photos.

ASSOCIATION: Proizvodstvennaya laboratoriya Saratovskoy MTS (Technical Services Laboratory of the Saratov MTS)

AVAILABLE: Library of Congress

Card 2/2 1. Communication systems-Improvement 2. Telephone systems-Automation mail

6(7)

SOV/111-59-6-15/32

AUTHORS: Ananchenko, N.P., Chief Engineer, and Perkis, D.V.,
Chief of the Laboratory

TITLE: Mechanization and Automation at the Saratov MTS

PERIODICAL: Vestnik svyazi, 1959, Nr 6, pp 19-20 (USSR)

ABSTRACT: The Saratovskaya mezhdugorodnaya telefonnaya stantsiya (Saratov Long-Distance Telephone Office) in the past year achieved a work efficiency rise of 9.3% over the year before, cut the production costs by 4.7%, and raised the office income by 9.4%, by mechanization done by the office staff. The mechanization means are the following: a carrierless pneumatic house tube system for conveying request blanks; pneumatic dispatch of the telegram requests from the office to the telegraph; a shuttle conveyer between the call switchboard and the payment desk; a two-way belt conveyer in the cashier's room of the central call office. The semi-automation of some nation-wide mains and oblast' lines released 6 operators and some switchboards for other duties.

Card 1/2

Mechanization and Automation at the Saratov MTS SOV/111-59-6-15/32

Intercommunication between the call offices and the long-distance switchboard operators was automated. A small change in the "MRU" long-distance switchboard cut the connection time per call by 5 seconds. Clocks were installed at each long-distance operator's switchboard. A new switchboard was made to replace an unsatisfactory one. A special plexiglass stand (shown in photograph) was made for holding the request sheets in order of receipt. A 15-minute counter, made at the office, replaced the too-complex and partly-hidden 9-minute counters at the long-distance switchboards. The filling-in of the request blanks has also been simplified. There are 3 photos.

ASSOCIATION: Saratovskaya MTS (Saratov MTS)

Card 2/2

ANANCHENKO, N.P.; PERKIS, D.V.

How we have improved the quality of work and increased the productivity of labor. Vest. sviazi 21 no.6:19-20 Je '61.

(MIRA 14:9)

1. Glavnyy inzhener Saratovskoy gorodskoy mezhdugorodnoy telefonnoy stantsii (for Ananchenko). 2. Nachal'nik proizvodstvennoy laboratorii Saratovskoy gorodskoy mezhdugorodnoy telefonnoy stantsii (for Perkis).

(Telephone--Equipment and supplies)

ANANCHENKO, S. N.

USSR

Preparation of α -mercurated ketones by decarboxylation of mercury salts of α -keto acids. A. N. Nesmeyanov, I. F. Lutsenko, and S. N. Ananchenko. *Uchenye Zapiski Moskov. Gosudarst. Univ. im. M. V. Lomonosova* No. 132, *Org. Khim.* 7, 130-43 (1970). The following new procedure has been developed for the synthesis of α -mercurated ketones. $\text{AcCMgCO}_2\text{Et}$ (50 g.) was slowly added to 22.5 g. NaOH in 210 ml. H_2O the mixt. shaken 45 min., extd. with Et_2O , the aq. layer acidified to Congo red with dil. H_2SO_4 and extd. again with Et_2O , gave on evapn. of the ext. 100% $\text{AcCMgCO}_2\text{H}$. This (40 g.) added to 115 g. Hg(OAc)_2 in 300 ml. H_2O gave a ppt. of the Hg salt; the entire mixt. was heated until Hg ion vanished from the soln. The not soln. was filtered, treated with 26.7 g. KCl in 150 ml. H_2O , yielding a ppt. of 74% AcCMgHgCl , m. 124°. To this (10 g.) in 30 ml. pentane was slowly added 4 g. AcCl in 10 ml. pentane and the mixt. heated on steam bath 0.5 hr. at 50°, cooled, filtered, and the filtrate, after washing with 3% NaOH and H_2O , was distilled, yielding 80% 2-methyl-2-buten-3-ol acetate, b. 140.5-41°, n_D 1.4250, d₄ 0.9134. This (0.2 g.) treated with 0.1 g. 2,4-dinitrophenylhydrazine in 0.2 ml. H_2SO_4 and 2 ml. EtOH gave the 2,4-dinitrophenylhydrazone of AcCOCHMe , m. 117°. AcCMgHgCl (16 g.) in xylene with 7 g. BzCl in xylene heated 1 hr. at 50-60°, then 15 min. on a steam bath, cooled 0.5 ml. pyridine added, filtered, the filtrate washed with 3% NaOH and distilled, gave 53% 2-methyl-2-buten-3-ol acetate, b. 135°, n_D 1.517, d₄ 1.0345. Shaking 51 g. $\text{AcCMgEtCO}_2\text{H}$ with 12 g. COH in 400 ml. H_2O 2 days, followed by the above treatment for the di-Me analog, gave the crude $\text{AcCMgEtCO}_2\text{H}$ which was used directly. This (41 g.) added to 80 g. Hg(OAc)_2 in 275 ml. H_2O and heated, at 45-50°, then treated with 18 g. KCl in 50 ml. H_2O

gave 74% 3-methyl-3-chloromercuro-2-pentanone, a heavy oil. This treated under CaH_2 with AcCl gave 60% mixed cis-trans isomers of 3-methyl-2-penten-2-ol acetate, b. 60-8°, n_D 1.4290, d₄ 0.9097. Shaking 36 g. $\text{AcCMgCO}_2\text{Et}$ with 10 g. NaOH in 150 ml. H_2O 5 weeks gave after the usual treatment 40% $\text{AcCMgCO}_2\text{H}$. This (13 g.) treated with 20 g. Hg(OAc)_2 in 100 ml. H_2O and heated as above gave after filtration and treatment with aq. KCl , 58% 3-ethyl-3-chloromercuro-2-pentanone, m. 77°. This treated in pentane soln. with AcCl gave 3-ethyl-2-penten-2-ol acetate, b. 160-70°, n_D 1.4340, d₄ 0.9019. Shaking 30 g. Me 2-methylcyclopentanone-2-carboxylate with 12.5 g. NaOH in 115 ml. H_2O 15 min. gave 100% free acid, an oil. This treated with aq. Hg(OAc)_2 as above gave 2-methyl-2-chloromercurocyclopentanone, decmp. 123° with liberation of Hg; the compound liberates Hg in sunlight. Keeping Et 2-methylcyclohexanone-2-carboxylate in 10% NaOH 24 hrs. with shaking gave after usual treatment the free acid in the form of a scrap. This with aq. Hg(OAc)_2 gave 60% 2-methyl-2-chloromercurocyclohexanone, m. 138°, which heated with AcCl in CaH_2 1 hr. gave 55% 2-methylcyclohexen-2-ol acetate, b. 155-7°, n_D 1.4800, d₄ 0.9094. Similar reaction with BzCl gave 55% corresponding benzozis, b. 138°, n_D 1.5370, d₄ 1.0825. O. M. Kosolapoff

M 62

AA ANCHENKO, S.V.

7 Synthesis of polycyclic compounds related to steroids
XVI. Condensation of 1-methyl-1-cyclohexen-6-one with
1-methoxy-1,3-butadiene. Synthesis of 8a-methyl-1-vinyl-
3'-octahydro-8-naphthalenone and 8a-methyl-1-vinyl-
octahydro-7-naphthalenone. L. N. Nazarov, L. A. Iorgov.

L. I. Zaretzkaya, G. P. Verkhovskaya, S. N. Ananchenko,
and V. M. Andreyev. *Bull. Acad. Sci. Div. Chem. Sci.*
1953, 60-62 (Engl. translation) -See CA 48:
3224h H I H

ANANCHENKO-S.N.

Chemical Abst.
Vol. 48 No. 6
Mar. 25, 1954
Organic Chemistry

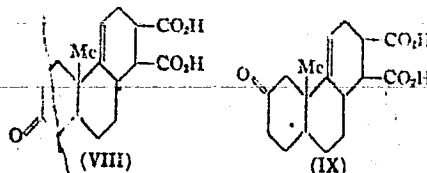
Synthesis of polycyclic compounds related to steroids.
XVI. Condensation of 1-methyl-1-cyclohexen-6-one with 2-methoxy-1,3-butadiene. Synthesis of 8a-methyl-1-vinyl- Δ^1 -octahydro-6-naphthalene and 8a-methyl-1-vinyl- Δ^1 -octahydro-7-naphthalene. I. N. Nazarov, I. V. Torgov, J. I. Zaretskaya, G. P. Verkhovetova, S. N. Ananchenko, and V. M. Andreev. *Izv. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1953, 78-90; cf. C.A. 48, 1583c; 47, 10515d. To the catalyst prepd. from 4.5 ml. $\text{BF}_3 \cdot \text{Et}_2\text{O}$, 15 g. yellow HgO , 2 g. $\text{CH}_3\text{CO}_2\text{H}$, and 10 ml. abs. MeOH was added 180 g. abs. MeOH and the mixt. treated over 9 hrs. with 280 g. $\text{CH}_2=\text{CH}:\text{CH}=\text{CH}$ at about 40° , let stand overnight, stirred 4 hrs. at 40° , cooled, and neutralized with 10 ml. 5% MeONa ; distn. gave 67% 1,3-trimethoxybutane, bp $60-2^\circ$, n_D^{20} 1.4112. If near the end of the reaction some 1 ml. $\text{BF}_3 \cdot \text{Et}_2\text{O}$ and 5 g. HgO are added, the yield is raised 5-7%. The product was slowly added to 10 g. Ph_2O and 0.6 g. powd. KHSO_4 heated to 150° at such a rate that the vapor temp. remained below 65° , yielding a distillate of 2-methoxy-1,3-butadiene (1), $\text{MeOCH}=\text{CH}:\text{C}(\text{OMe})=\text{CH}_2$, and MeOH ; redistn. gave 65-70% pure enough for further work, b. $72-5^\circ$, n_D^{20} 1.4430-1.4450. 1 (15 g.) and 120 g. 1-methyl-1-cyclohexen-6-one heated in a metal ampul in CO_2 with 1%

(over)

ms/11
ms/11

PhNEt₃, 2.5 hrs. at 200-70° yielded after repeated distn. 44% mixed 8a-methyl-6-methoxy-Δ⁸-octahydro-1-naphthalenone (IA) and 8a-methyl-7-methoxy-Δ⁸-octahydro-1-naphthalenone (II), b. 92-6°. 1A semicarbazone (provisionally characterized), m. 208-5°. Hydrogenation of mixed IA-II over Pd in dioxane gave 8a-methyl-7-methoxydecahydro-1-naphthalenone, b.p. 89-91°, n_D²⁰ 1.4892, d₄ 1.039; semicarbazone, m. 190-202° (decomp.). To 7 g. Na in 300 ml. liquid NH₃ was added over 2 hrs. C₂H₂ at 20 l./hr., then 10.7 g. mixed IA-II in Et₂O, the C₂H₂ flow continued 9 hrs., 20 g. NH₄Cl added, and the mixt. allowed to stand overnight; treatment with H₂O and extn. with Et₂O gave 2 g. 1-ethynyl-8a-methyl-6-methoxy-Δ⁸-octahydro-1-naphthol (III), m. 123-3.5° (from CHCl₃). The mother liquor gave 6 g. mixed III and its 7-MeO isomer, b. 110-21°, n_D²⁰ 1.5263. The use of K or Li failed to give better results. Shaking III in Et₂O 2 hrs. with 8% HCl gave 100% 1-ethynyl-8a-methyl-1-hydroxydecahydro-6-naphthalenone (IV), m. 155-6°. To 17 g. Na in 850 ml. liquid NH₃ was added 40 l. C₂H₂ in 1 hr., and, with a reduced rate of C₂H₂ flow, the mixt. was treated with 80 g. mixed IA-II in 250 ml. Et₂O, the passage of C₂H₂ continued 6 hrs., and the mixt. kept overnight at -70°, treated with C₂H₂ 5 hrs., allowed to warm to -35°, treated with 60 g. powd. NH₄Cl, allowed to evaporate; the residue, after addn. of Et₂O, was treated with ice H₂O, and the concd. org. layer treated with 100 ml. 1% HCl and stirred 3 hrs., yielding 34-9 g. IV, m. 158° (from EtOH or C₆H₆). The mother liquor treated with petr. ether gave 6-8 g. 7-oxo isomer of IV, m. 144° (from EtOH); the residue (13-18 g.) was a mixt. of the 2 substances, b.p. 134-6°, n_D²⁰ 1.5230. Hydrogenation of IV over PtO₂ in EtOH gave the 1-Et analog, m. 127-8°; the other isomer similarly gave 1-ethyl-8a-methyl-1-hydroxydecahydro-7-naphthalenone, m. 86°. Hydrogenation of IV in dioxane over Pd (1 mole H absorbed) gave a viscous mass, crystg. very slowly; the pure 1-ethyl analog of IV m. 111-12° (from petr. ether). The 1-vinyl-8a-methyl-1-hydroxydecahydro-7-naphthalenone (V), m. 114-15°, crystd. rapidly. Dehydration of these over

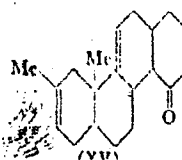
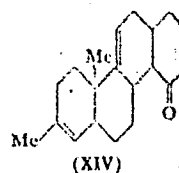
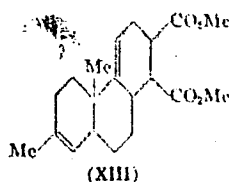
KHSO₄ in the presence of pyrogallol at 140-5°/40-5 mm. gave, resp., 67% 1-vinyl-8a-methyl-Δ⁸-octahydro-6-naphthalenone (VI), b. 114-17°, b. 100-3°, n_D²⁰ 1.5260, d₄ 1.022 [semicarbazone, m. 174-5-6.0° (from EtOH)], and 74% 1-vinyl-8a-methyl-Δ⁸-octahydro-7-naphthalenone (VII), b.p. 91-6°, n_D²⁰ 1.5270 (semicarbazone, m. 196-7°). Hydrogenation of mixed IV and its 7-oxo isomer over Pd gave some 20% V, and dehydration of the residue gave 40% mixed VI-VII. VI reacted spontaneously with maleic anhydride and treatment of the product with alc. aq. KOH, followed by acidification, gave the previously described dicarboxylic acid (VIII), m. 200-2.5°. VII similarly gave the dicarboxylic acid (IX), m. 203°, becoming transparent only at 210°. (2 g.), 10 ml. MePh, and 0.05 g. powd. KOH



heated 0.5 g. at 110° gave C₂H₂ and a trace of 8a-methyl-1,6-dioxodecahydronaphthalene, m. 60-2°. To MeMgBr (from 13 g. 4-Br) was added in 10 min. at 5-10° 5 g. VI and the mixt. refluxed 5 min.; after decompn. with ice and 20% HCl, the org. layer gave 90% 1-vinyl-6,8a-dimethyl-Δ⁸-octahydro-6-naphthol (X), b.p. 91-4°, n_D²⁰ 1.5260. Similarly was obtained 87% 1-vinyl-7,8a-dimethyl-Δ⁸-octahydro-7-naphthol (XI), b. 92-6°, n_D²⁰ 1.5235. Dehydration over KHSO₄ in the presence of pyrogallol at 140-50°/45 mm. gave, resp., 67% 1-vinyl-6,8a-dimethyl-Δ⁸-hexahydronaphthalene (XII), b. 114-2°, n_D²⁰ 1.5240, d₄ 0.940, and 1-vinyl-7,8a-dimethyl-Δ⁸-hexahydronaphthalene (XIIIa), b.p. 68-70°, n_D²⁰ 1.5220. (5.8 g.) heated with 15 g. di-Me maleate 6 hrs. at 100° followed by removal of unused ester in

vacuo and heating the residue with KHSO_4 and little pyrogallol 0.25 hr. at $136-70^\circ/25$ mm. gave 4.3 g. XIII, b₁ $165-70^\circ$, n_D²⁰ 1.5200, which, heated 3 hrs. with aq. alc. NaOH, gave the free acid, does not m. 200° . XI treated similarly gave the corresponding ester (not characterized) but hydrolysis of the latter gave only a viscous mass. The free acid of XIII heated in a N atm. with Pd-C in C_{10}H_8 11

hrs. at 370° reacted incompletely and yielded but 60 mg. 2-methylphenanthrene, m. $57-8.5^\circ$; picrate, m. $115-17^\circ$. Dehydrogenation of the viscous isomeric acid failed to yield a solid product. Heating 1.2 g. XII and 3.1 g. 2-cyclohexen-1-one in CO_2 in an ampul 4 hrs. at 200° gave 0.5 g. crude ketone (XIV), b₁ $160-5^\circ$, which was used in this form. Similarly XIIIa gave crude ketone (XV), b₁ $145-55^\circ$, which was used in this state. Heating 0.5 g. XIV in 3 ml. $\text{O}(\text{CH}_2\text{CH}_2\text{OH})_2$ with 0.4 g. $\text{N}_2\text{H}_4 \cdot \text{H}_2\text{O}$ 5 min., then with 0.4 g. Na in 10 ml. $\text{O}(\text{CH}_2\text{CH}_2\text{OH})_2$ 10 hrs. at 200° and 3 hrs. at 220° , extn. of the dil. mixt. with Et_2O , evapn. of the washed ext., and heating the residue with Pd-C in C_{10}H_8 6 hrs. at 350° in a N atm. gave 14 mg. 2-methylchrysene, m. $222-3^\circ$ (picrate, m. $145.5-6.0^\circ$). Similarly 1.2 g. XV gave 0.45 g. crude product, b₁ $126-30^\circ$, dehydrogenated as above to 15 mg. 3-methylchrysene, m. $166-9^\circ$ (picrate, m. $160-1^\circ$).



ANANCHENKO, S. N.

USSR

Synthesis of polycyclic compounds related to steroids.
 XVII. Preparation of α,β -unsaturated cyclic ketones (2-cyclopentenones). I. N. Nazarov, L. D. Benjamins, I. V. Torgov, and S. N. Ananchenko. *Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci.* 1933. 781-98 (Engl. translation).—See C.A. 49, 1082d, XVIII. Condensation of 1-vinyl-9-methyl-6-octahydronaphthalenone and 1-vinyl-9-methyl-1-octahydronaphthalenone with 1,3-dimethyl-1-cyclopenten-5-one. I. N. Nazarov and I. V. Torgov. *Ibid.* 799-816.—See C.A. 49, 1083d. XIX. Condensation of 1-vinyl-9-methyl-1-octahydronaphthalen-6-one and 1-vinyl-9-methyl-1-octahydronaphthalen-7-one with 1-cyclohexenones and citraconic anhydride. I. N. Nazarov, I. I. Zaretskaya, G. P. Verkhovetova, and I. V. Torgov. *Ibid.* 817-25.—See C.A. 49, 1085c. XX. Condensation of 1-vinyl-9-methyl-1-octahydronaphthalen-6-one and 1-vinyl-9-methyl-1-octahydronaphthalen-7-one with 1-cyclopentenone, 1-methyl-1-cyclopenten-3-one and 1,3-dimethyl-1-cyclopenten-4,5-dione. I. N. Nazarov, G. P. Verkhovetova, I. V. Torgov, I. I. Zaretskaya, and S. N. Ananchenko. *Ibid.* 827-38.—See C.A. 49, 1086c.

H. L. H.

ANANCHENKO, S.N.

USSR/Chemistry - Synthesis

Card 1/1 : Pub. 40 - 19/22

Authors : Nuzarov, I. N.; Verkholetova, G. P.; Torgov, I. V.; Zaretskaya, I. I.;
and Ananchenko, S. N.

Title : Synthesis of steroid compounds and their substances. Part 20. -

Periodical : Izv. AN SSSR. Otd. khim. nauk 5, 929-940, Sep-Oct 1953

Abstract : The synthesis of steroid diketones of the cis-cis series is described. The formation of three isomeric diketones, two of which have an inverted structure and are distinguished by a spatial position of substituents, is explained. The products derived from the condensation of 1-vinyl-9-methyl- Δ^1 -6-octalone with Δ^1 -cyclopentenone and with 1,3-dimethyl- Δ^1 -cyclopentene-4,5-dione and their characteristics, are described. Nine references: 7-USSR and 2-USA (1935-1953).

Institution : Academy of Sciences USSR, Institute of Organic Chemistry

Submitted : October 7, 1952

"APPROVED FOR RELEASE: 03/20/2001

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APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000101310013-1"

ANACHENKO, S.N.

USSR/Organic Chemistry. Natural Products and their
Synthetic Homologues.

E-3

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19311.

Author : Nazarov I. N., Anachenko S.N., Torgov I. V.

Inst :

Title : Synthesis of Steroid Compounds and Relative Substances.
XXII. Stereochemistry of Hydrogenation and Reduction of
6,9-dimethyl-1-keto- $\Delta^4(10)$ 5, - hexahydronaphthalene.

Orig Pub: Zh. Obshch. Khimii, 1956, 26, No 4, 1175-1186.

Abstract: It was shown, that at the hydrogenation of 6,9-dimethyl-
keto- $\Delta^4(10)$ 5-hexahydronaphthalene (I) with Pt-catalyst
and at the reduction I with Li in liquid NH_3 are formed
derivatives of trans-6,9-dimethyldecalene. The addition
of the first molecule H_2 to I in the presence of Pt in
alcohol or glacial CH_3COOH occurs mainly in the position
of the double bond in the position 4-10 on the opposite
side from the angular methyl group, whereby is formed a

Card : 1/11

USSR/Organic Chemistry. Natural Products and their
Synthetic Homologues.

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Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19311.

trans-6,9-dimethyl- Δ^5 -octalene-1 (II) with an admixture
(~5%) 6,9-dimethyl- $\Delta^4(1)$ -octalene-1 (III). The addition
of the second molecule H_2 goes into 5-6 position and leads
to trans-6,9-dimethyldecalene-1 (IV). On the exhaust-
ive hydrogenation I in the presence of Pt are absorbed 3
molecules H_2 , and 6,9-dimethyldecalene-1 (V) is obtained.
Hydrogenation of I in V is best carried out with Pt in
the presence of HCl; at the hydrogenation of I in a solu-
tion of alcohol or CH_3COOH without the addition of HCl,
adds easily and speedily only 2 molecules of H_2 to the
ethylene bonds; however the reduction of the CO group
proceeds several times slower. In the presence of Pd-
catalyst in alcohol the addition of the molecule H_2 to
I occurs in the position 1-4, whereby is formed 6,9-
dimethyl- $\Delta^5(10)$ -octalene-1 (VI), after which the hydro-

Card : 2/11

USSR/Organic Chemistry. Natural Products and their
Synthetic Homologues.

E-5

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19311

tion of the CO₂ group only takes place and is formed 6, 9-dimethyl- $\Delta^{4,5}(10),5$ -hoxalolo-1 (X) which at further hydrogenation with Pt is converted into V. In the presence of alcohol the reduction of I Li in liquid NH₃ yields trans-6,9-dimethyl- Δ^5 -octalolo-1 (XI), oxidized with CrO₃ into II. In the presence of Pt, XI is hydrogenated into V. At the previously described (RZhKhim, 1956, 16188) diene condensation of isoprene (XII) with 1-methyl- Δ^1 -cyclohexanone-6 (XIII) are obtained $\Delta^6(7)$ -6,9-dimethyl-octalono-1(XIV) and $\Delta^6(7)$ -7,9-dimethyloctalono-1 (XV). The hydrogenation of XIV with Pt yields a mixture of VI. and its 6-epimere (XVI) with a predominant amount of VI. For the determination of the structure XV it was converted by means of interaction with CH₃MgI into 1,7,9-trimethyl- Δ^6 -octalono-1(XVII), which is dehydrated into 1,

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USSR/Organic Chemistry. Natural Products and their
Synthetic Homologues.

E-3

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19311.

dinitrophenylhydrazine (XX) and subsequent fractional crystallization are isolated DNPH II, yield 2 g. m.p. 207-208.5° and DNPH III, yield 0.1 g., m.p. 189-190°. 0.22 g. of I in 10 cc alcohol and 3 cc HCl is hydrogenated with Pt until the absorption reaches 3 moles H₂, V is obtained, yield 0.17 g., m.p. 96-98°. 1 g. I is hydrogenated in alcohol with skeleton Ni until the absorption of 2 moles H₂ and V is obtained, yield 0.19 g. 1.8 g. I in 15 cc alcohol is hydrogenated in the presence of Pd/CaCO₃ (10% Pd.); after the absorption of 1 mole of hydrogen the hydrogenation is drastically slowed down, VI is obtained, yield 1.5 g., b.p. 85-87°/1.5 mm, n_D²⁰ 1.5000; DNPH, m.p. 200-201° (dec. from alc.-ethylacetate 1:1). To the cooled off solution CH₃MgI (from 0.8 g Mg, 5 g. CH₃I, and 40 cc ether) is added 2 g. VI in 15 cc ether,

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USSR/Organic Chemistry. Natural Products and their Synthetic Homologues.

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Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19311.

r.20D 1.5/10. At the hydrogenation of 0.6 g. of X in alcohol with Pt for 30 min. 2 moles of H_2 is absorbed, and V is formed, yield 0.25 g. m.p. 100° ; 3,5 dinitrobenzoate, n.p. $128-129^\circ$. Oxidation of V by means CrO_3 in glac. CH_3COOH leads to the formation of IV, with characteristics of the form of DNPH. To 140-150 cc NH_3 is added 0.6 g. Li, stirred 20 min. at -70° , is added a solution 2.1 g. I in 40 cc ether, stirred 35 min., 15 cc of absol. alc. is poured in and stirred 2 hours at -70° . After the usual treatment is obtained XI, yield 0.9 g., m.p. $87-89^\circ$ (from petr. ether). At the oxidation of 0.3 g. XI CrO_3 in glac. CH_3COOH is formed II, yield 0.1 g. At the hydrogenation of 0.33 g. XI in alcohol with Pt in 1 hour is absorbed 1 mole H_2 , and V is formed, yield 0.203 g. at the oxidation of which is obtained IV characteristic of the form of DNPH. A mix-

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USSR/Organic Chemistry. Natural Products and their Synthetic Homologues.

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Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19311

turo of 30g. XII and 135 g. XIII is heated in a metallic ampoule 50 min. at $280-285^\circ$ (temperature of water bath) and the unreacted XIII is distilled off in vacuum (123 g.). From three experiments is obtained 20 g. of a mixture XIV and XV. From 10 g. of a mixture is obtained DNPH (10.4 g. XX, 50cc alcohol, 50 cc dioxane and 12 cc HCl), and after a fractional crystallization of DNPH mixture from a mixture of ethylacetate and alcohol is isolated DNPH XIV, yield 6 g., m.p. $181-182^\circ$ and DNPH XV, yield 1.02 g., n.p. $162.5-163^\circ$. A mixture of 4 g. DNPH XIV, 8 cc CH_3COOCH_3 , 9.6 g. CH_3COONa , 100 cc water and 260 cc CH_3COOH is heated 2 hours at $110-120^\circ$, CH_3COOH is distilled off in vacuum before the crystallization starts, the remainder is treated with a solution of soda until it reacts slightly alkaline, filtered, the filtrate is

Card : 9/11

NAZAROV, I.N.; VERKHOLETOVA, G.P.; ANANCHENKO, S.N.; ALEKSANDROVA, G.V.; TORGOV, I.V.

Synthesis of polycyclic compounds related steroids. Part 35.
Condensation of cyclic allyl hale derivatives with cyclic 2-methyl-
-1,3-diketones and intramolecular cyclization of resulting compounds
into ketones with hydrogenated skeletons of phenanthrene, chrysene,
and cyclopentanophenanthrene containing an angular methyl group.
Zhur.ob.khim.26 no.5:1482-1495 My '56. (MLRA 9:9)
(Ketones) (Condensation products (Chemistry))

5(3)

AUTHORS:

Nazarov, I. N., Ananchenko, S. N., Torgov, I. V.

SOV/62-59-1-16/30

TITLE:

Condensation of Vinyl Cyclohexene With Propiolic and Tetrollic Acid and Their Esters (Kondensatsiya viniltsiklogeksena s propiolovoy i tetrollovoy kislotami i ikh efirami)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 1, pp 95 - 102 (USSR)

ABSTRACT:

The authors of the present paper tried to investigate the possibility of building polycyclic systems like steroids by condensation of dienes with acetylene monocarboxylic acids and subsequent prolongation of the chain by means of condensation with sodium acetic (or sodium malonic) ester and cyclization according to the scheme adjoining. The condensation of 1-vinyl-1-cyclohexene with propiolic acid forms, at 100° and with a total yield of 60%, a mixture of $\Delta^{1,4}$ -hexahydronaphthalene-1-carboxylic acid (I) and $\Delta^{1,4}$ -hexahydronaphthalene-2-carboxylic acid (II) at a ratio of 10:1. The reaction with methyl ester of propiolic acid takes a similar course. The hydrogenation of the isomeric acids (I) and (II) with platinum oxide as a catalyst

Card 1/3

Condensation of Vinyl Cyclohexene With Propiolic and
Tetrolic Acid and Their Esters

SOV/62-59-1-16/38

in acetic acid takes a space selective course in both cases and leads accordingly to the cis-syn-decalin-1-carboxylic acid (III) and cis-decalin-2-trans-carboxylic acid (IV). The reduction of $\Delta^{1,4}$ -hexahydronaphthalene-1-carboxylic acid (I) by lithium aluminum hydride yields 1-oxy-methyl- $\Delta^{1,4}$ -hexahydronaphthalene (VI). This was transformed by the effect of phosphorus tribromide into a corresponding bromide. The authors tried to condense the latter with sodium acetic and sodium malonic ester. The condensation of 1-vinyl-1-cyclohexene with tetrolic acid takes place not earlier than at 130° in a yield of the adduct (VIII) of 4% only, for the basic mass of tetrolic acid is decomposed therein into methyl acetylene and carbon dioxide. Propiolic acid condenses very readily with 1-vinyl-6-methoxy-3,4-dihydronaphthalene (IX) under the formation of a mixture of isomeric acids (X) and (XI) in large yield. There are 1 figure and 10 references, 5 of which are Soviet.

Card 2/3

Condensation of Vinyl Cyclohexene With Propiolic and
Tetrolic Acid and Their Esters

SOV/62-59-1-16/35

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii
nauk SSSR (Institute of Organic Chemistry imeni K. D. Ze-
linskiy of the Academy of Sciences, USSR)

SUBMITTED: April 16, 1957

Card 3/3

5(3)

AUTHORS:

Nazarov, I. N., Ananchenko, S. N., Torgov, I. V. SOV/62-59-1-17/38

TITLE:

Synthesis of Stereoid Compounds and Related Substances
(Sintez steroidnykh soyedineniy i rodstvennykh im veshchestv)
Communication 41. A New Type of Condensation of Divinyl
Carbinols With Cyclic 1,3-Diketones (Soobshcheniye 41. Novyy
tip kondensatsii divinilkarbinolov s tsiklicheskimi 1,3-di-
ketonami)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,
1959, Nr 1, pp 103 - 109 (USSR)

ABSTRACT:

In preceding papers it was found that the condensation of
allyl bromides with sodium derivatives of cyclic 1,3-di-
ketones and the subsequent cyclization of reaction products
leads to the formation of polycyclic ketones, among them also
those related to steroids (Refs 1 and 2). In the present
paper these transformations were carried out also with 2
isomers of 2-methyl-1-vinylcyclohexane-1-ol (I). The results
were practically the same. By the effect of gaseous hydrogen
bromide on both isomers (I) the allyl bromide (II) is pro-
duced in vinyl alcohol at 0° in a yield of ~ 60%. The bi-

Card 1/3

Synthesis of Stereoid Compounds and Related Substances.
Communication 41. A New Type of Condensation of Divinyl Carbinols With
Cyclic 1,3-Diketones SOV/62-59-1-17/38

cyclic diketone (III) is produced in a yield of 55% by the condensation of (II) with methyl hydroresorcinol in the presence of sodium ethylate. (III) is cyclized with phosphoric anhydride (10-15%) on heating in vacuum. The water is separated and the tricyclic ketone (IV) is formed in a yield of ~50%. Furthermore, 1-vinyl- Δ^2 -cyclohexene-1-ol (V) and 1-vinyl-2-methyl- Δ^2 -cyclohexene-1-ol (VI) were synthesized according to the usual scheme by condensation of Δ^2 -cyclohexenone and 2-methyl- Δ^2 -cyclohexenone with lithium acetylenide in liquid ammonia and subsequent selective hydrogenation of corresponding acetylene alcohols (VII) and (VIII). The authors failed to carry out this reaction by way of allyl bromides and 1-vinyl-6-methoxy-1-tetralol. It was found, however, that in the presence of sodium ethylate or trimethylbenzyl ammonium hydroxide (Triton B) an addition of methyl hydroresorcinol to vinyl cyclohexenols (V) and (VI) takes place. Thereby bicyclic diketones (IX) and (X) are formed on the separation of water in a yield of ~50%. The structure of (IX) and (X) was confirmed by infra-

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Synthesis of Stereoid Compounds and Related Substances. SOV/62-59-1-17/38
Communication 41. A New Type of Condensation of Divinyl Carbinols With
Cyclic 1,3-Diketones

red spectra (Table). The cyclization of (IX) and (X) is very difficult and could be carried out only in the case of (X). On its heating in vacuum with 50 wt% phosphoric anhydride the authors succeeded in obtaining the tricyclic ketone (XI) at 150-160° in a small yield. There are 1 table and 7 references, 5 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED: April 16, 1957

Card 3/3

5(3)

AUTHORS:

Ananchenko, S. N., Torgov, I. V.

SOV/20-127-3-20/71

TITLE:

A New Way of Synthesizing Steroid Compounds. The Synthesis of D-Homoequilenine and D-Homoisoequilenin

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 3, pp 553-556 (USSR)

ABSTRACT:

In former papers (Ref 1) the authors reported on the synthesis of tricyclic and tetracyclic ketones by means of the cyclation of disubstituted derivatives of dihydroresorcin under the influence of the anhydride of phosphoric acid. The original diketones may be produced by alkylation of methyl-dihydroresorcin (Ref 1) and by condensation of the latter with vinylcycloenoles (Ref 2). According to the structure of the original carbinol, either the former or the latter way is more favorable. The authors decided to apply these reactions on 1-vinyl-5-methoxy-tetralol-1 in such a way that tetracyclic systems develop with functional groups in the position 3 and 17, i.e. exactly as in natural sterol. In fact, they succeeded in developing 3-methoxy $\Delta^{1,3,5,9}$ -8,14-seco-D-homo-estra-tetraen-dion-14,17a (III) by heating 1-vinyl-6-methoxy-tetralol-1 (I) with 1-methyl-dihydro-resorcin (II) in the presence of

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A New Way of Synthesizing Steroid Compounds. The
Synthesis of I-Homoequilenine and D-Homoisoequilenin

SOV/20-127-3-20/71

triton-B (trimethyl-benzyl-ammonium-hydroxyd) with an output of 41 % (calculated for carbinol (I)), and 60 % with regard to the diketone (II) which entered the reaction. A cyclization of the diketone (III) with the anhydride of phosphoric acid lead to the development of 3-methoxy $\Delta^{1,3,5,8,14}$ -D-homo-estra-penta-enon (IV). Ketophenol (V) was developed by the demethylation of ketone (IV) by heating it with pyridin-hydrochloride, i.e. the demethylation reaction of diketone (III) is accompanied by a cyclization, since the same ketophenol (V) develops with a similar mixture of trans-3-methoxy- $\Delta^{1,3,5,8}$ -D-homo-estra-tetra-enon-17a (VIa) and apparently its isomer $\Delta^{8(14)}$ (VIb) develop during the hydration of ketone (IV) in a mixture of alcohol and pyridine. In analogy to the hydration of 6,9-dimethyl- $\Delta^{4,5}$ -hexa-hydro-nephthalinon-1 (2b), with a similar structure, the hydrogen addition to ketone (IV) is bound to take place in the least protected positions 1,2 and 1,4. Methyl-ether of trans- and cis-D-homo-equilenin (VIIb respectively VIIa) were isolated by the dehydration of the mixture (without separation) with palladium on coal, at a temperature of 330°. Cis- and trans-D-homo-equilenin (VIIIa,

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A New Way of Synthesizing Steroid Compounds. The
Synthesis of L-Homoequilenine and D-Homoisoequilenin

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respectively VIIIb) developed by the demethylation of the two ketones. The melting points of the ketones (VIIb), (VIIIa) and (VIIIb) corresponded to the published data (Refs 3,4), while the melting points of (VIIa) was higher by 50° than stated in reference 3. The u.-v.-spectra of (VIIa) and (VIIb) were very similar to the spectrum of β -methoxy-naphthalene. Mixing experiments of (IIIb) and (VIIb) with notoriously known samples did not reduce the melting temperature (sample given by Professor Chang-Chin, Peking, Petroleum Institute). According to Bachmann (Ref 3) (VIIIb) is active in doses of 50 γ (compared to 30 γ for equilenin) for subcutaneous injections for mice. There are 1 figure and 6 references, 4 of which are Soviet.

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute for Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

PRESENTED:

April 6, 1959, by B. A. Kazanskiy, Academician

SUBMITTED:

April 6, 1959

Card 3/3

ANANCEENKO, S.N.; LEONOV, V.N.; PLATONOVA, A.V.; TORGOV, I.V.

New steps leading to the synthesis of steroid compounds. Complete
synthesis of d,l-estrone. Dokl. AN SSSR 135 no.1:73-76 N '60.
(MIRA 13:11)

1. Institut khimii prirodnikh soedineniy AN SSSR. Predstavleno
akademikom M.M.Shemyakinym.
(Estrone) (Steroids)

ANANDIENKO N., ZARETSKAYA, I. I., TORDOV, I. V. (USSR)

"Methods of Obtaining Oestrone, its Derivatives and
19-Norsteroids Starting with 6-Methoxytetralone."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 August 1961

ANANCHENKO, S.N.; PLATONOVA, A.V.; LEONOV, V.N.; TORGOV, I.V.

Synthesis of 19-norsteroids based on 3-methoxy- Δ 1, 3, 5, (10),
8, 14-D-homoestrapienta-17a-enone, Izv. AN SSSR, Otd. khim. nauk no. 6;
1074-1080 Je '61. (MIRA 14:6)

1. Institut khimii prirodnikh soyedineniy AN SSSR.
(Norsteroids)

ANANCHENKO, S.N.; RZHEZNIKOV, V.M.; LEONOV, V.N.; TORGOV, I.V.

Synthesis of DL-19-nor-D-homotestosterone and its 17a-alkyl
homologs. Izv.AN SSSR.Otd.khim.nauk no.10:1913-1914 0 '61.
(MIRA 14:10)

1. Institut khimii prirodnnykh soyedineniy AN SSSR.
(Testosterone)

ANANCHENKO, S.N.; TORGOV, I.V.; LEONOV, V.N.

Complete synthesis of equilenin, estrone, and their stereoisomers.
Méd. prom. 15 no.2:38-43 F '61. (MIRA 14:3)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
(EQUILENIN) (ESTRONE)

LEONOV, V.N.; ANANCHENKO, S.N.; TORGOV, I.V.

New method of synthesizing steroid compounds. Complete synthesis of Δ^1 -8-isoestrone. Dokl.AN SSSR 138 no.2:384-386 My '61.
(MIRA 14:5)

1. Institut khimii prirodnikh soedineniy Akademii nauk SSSR. Predstavleno akademikom M.M.Shemyakinym.
(Isoestrone)

ANANCHENKO, S. N.; LEONOV, V. N. ; LIMANOV, V. E.

"A new class of anabolic agents of the D-homosteriod type."
report submitted for the IUPAC 2nd International Symposium on
the Chemistry of Natural Products, Prague Czech., 27 Aug-2 Sep 62

ANANCHENKO, S.N.; TAO DZHEN E, stazher; TORGOV, I.V.

Variants of the total synthesis of estrone based on 1-vinyl-6-methoxy-1-tetralol and methyl-dihydroresorcinol. Izv. AN SSSR Otd.khim.nauk no.2:298-302 F '62. (MIRA 15:2)

1. Institut khimii prirodnikh soyedineniy AN SSSR. 2. Institut organicheskoy khimii Kitayskoy Akademii nauk, Shangkhai (for Tao Dzen E)

(Estrone)
(Resorcinol)

RZHEZNIKOV, V.M.; ANANCHENKO, S.N.; TORGOV, I.V.

Synthesis of some D-homosteriods. Izv.AN SSSR.Otd.khim.nauk
no.3:465-470 Mr '62. (MIRA 15:3)

1. Vsesoyuznyy institut eksperimental'noy endokrinologii i
Institut khimii prirodnikh soyedineniy AN SSSR.
(Homosteroids)

LIMANOV, V.I.; ANANCHENKO, S.N.; TORGOV, I.V.

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