SOMOVA, L.

Strengthen the financial service in enterprises: The plant and its finances. Fin. SSSR 38 no.2:61-65 F :64. (MIRA 17:2)

1. Nachal'nik finansovo-sbytovogo otdela Baltiyakogo sudostroitel'nogo zavoda Soveta narodnogo khozyayatva Litovskoy SSR.

SOMOVA, M.

Activist group of a trade union. Sov. profsoiuzy 17 no.21:
28-30 N '61. (MIRA 14:10)

1. Profgruporg brigady kommunisticheskogo truda zavoda "Moskabel!".

(Moscow—Trade unions)

SOMOVA, N. M. --

"The Agglutination Reaction in Tuberculosis." Cand Med Sci, First Leningrad State Medical Inst, Leningrad, 1953. (RZhBiol, No 2, Sep 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

SOMOVA, N.M. (Leningrad); GERASIMOVA, N.F. (Leningrad).

Practical application of the bacteriologic method in the diagnosis of tuberculosis. Klin.med. 31 no.12:19-23 D 53. (MIRA 7:1)

1. Iz kafedry mikrobiologii (zaveduyushchiy - professor V.N.
Kosmodamianskiy) I Leningradskogo meditsinskogo instituta im. skad.
I.P.Pavlova i bakteriologicheskoy laboratorii (zaveduyushchiy
N.F.Gerasimova) Klinicheskoy bol'nitsy im. F.F.Eresmana.
(Tuberculosis--Diagnosis)

SOMOVA, N.M.: SERGEYEVA, N.A.

Pathogenic microflors in rodents found in a harbor area. Zhur.

mikrobiol.epid. i immun. 28 no.9:123-128 S '57. (MIRA 10:12)

1. In leningradskey protivechure y laboratorii Ministerstva zdravookhraneniya SSSR.

(RCHENTS,
pathogenic microcreanians isolated from various animals
found in harbor area (Rus))

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

17(2,6)

sov/16-59-6-19/46

AUTHORS

Sergeyeva, N.A., Somova, N.M. and Gurtyanova, L.I.

TITLE:

The Pathogenic Microflora of Rodents, Obtained From the Leningrad

Merchant Port. II.

30

PREPODICAL

Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959, ANr 6,

pp 91-95 (1917)

ABSTRACT

A systematic study of rodents captured in the Laningrad dork area revealed, among other pathogenic microbes, many strains of Erystpelos thrix rhusiopathiae. N.G. Olsuf'yev, Ye.M. Tsvetkova, Dunayeva, G.D. Vilyavin and N.I. Kratokhvil' have also shown that these bacteria may be found in rodents and other small animals. V.K. Stefanskiy and A.A. Grinfel'd described 35 cases of erysipeloid among workers in Odessa Grinfel'd described 35 cases of erysipeloid among workers in Odessa Fish Plants. P. Svintsov, G.I. Rozhkov, I.S. Gil'man, F.N. Slipenko and A.I. Brind noted cases of erysipelas among veterinary workers and workers in the meat industry. In the present study roden's (mostly grey and black rats) were captured from all parts of the dock area and dock installations. Animals infected with Erysipelochrix rhusiopathiae were found only in the Kleyevoy zavod (Glue Plant), the

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4"

The Pathogenic Microflora of Rodents, Obtained From the Leningrad Merchant Port. II.

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

storages and port refrigerator section. Epidemiological study revealed a connection between the infected rodents and the incidence of erysipelas among workers in the storehouses, refrigerator section, glue plant, etc. There are: 15 Soviet references and 1 table.

ASSOCIATION: Leningradskaya protivochumnaya portovaya i gorodskaya nablyudatel naya stantsiya (Leningrad Port and City Anti-plague Observation Station).

SUBMITTED:

May 21, 1958

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4"

ANDREYEVA, A.F.; BAKULINA, L.I.; GREBERCHUR, A.I.; GUR'TANCVA, L.I.; PUN'KO, T.A.; SCHOVA, N.H.; YUDINCVA, P.V.

Microflora of rodents in Leningrad. Report No.2. Zhur. microbiol., epid. i immun. 32 no.9:133-134 S 61. (MIRA 15'2)

1. Iz Leningradskoy protivochumnoy portovoy i gorodskoy nablyudatel noy stantsii.

(LENINGRAD\_RODENTIA\_KICROBIOLOGY)

L 54949-65 EWT(1)/EWA(j)/T/EWA(b)-2 BW/JK

ACCESSION NR: AP5014288

UR/0016/65/000/006/0043/0047 616.981.49-022.39(471.23-2) 28,

AUTHOR: Grebenchuk, A. I.; Bakulina, L. I.; Vashchenok, G. I.; Somova, N. M.; Pun'ko, T. A.; Andreyeva, A. P.; Yudinova, P. V.; Bartasheva, V. A.; Balabonova, L. S.

TITLE: Salmonellosis in rodents in Leningrad

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 6, 1965, 43-47

TOPIC TAGS: salmonella, rodent carrier, disease control

ABSTRACT: Approximately 46,000 rodents were examined in a study of salmonellosis in rodents in Leningrad in 1960-1962. These included 36,000 gray rats, 850 black rats, 6100 house mice, and 2700 other murine rodents (9 species). The rodents were caught in various food establishments, apartments, etc. in the city and suburbs. 301 serological types of salmonella were isolated from this material; 151 were typed as Isachenko-Danich organisms; the remainder were distributed among 18 serological types from the B, C, D, E, and F groups. All but one of the latter were isolated from the organs of the gray rats and house mice, a matter of epidemiological in-

Card 1/2

L 54949-65 ACCESSION NR: AP5014288

terest because these rodents belong to synanthropic species. No salmonellas were isolated from rodents caught in open places such as gardens, parks, and cemeteries. Host of the types (32%) were isolated during warm weather, 14% in the fall. The commonest of the salmonellas isolated from the rodents were S. enteritidis (42%) and B. typhimurium (40%); S. suipestifer, S. paratyphi C. and others were rarer. The types of salmonellas (15) isolated from the rodents were also isolated from sick persons during the same period. The percentage of the various types isolated from man was about the same as in the rodents. Orig, art. has: 3 tables.

ASSOCIATION: Leningradskaya protivochusa a contour a la gorodskaya nablyudatelinaya stantsiya (Leningrad Port and Municipal Plague Ubservation Station);
Leningradskaya samitarno-epidemiologicheskaya stantsiya (Leningrad Samitary-Epidemiological Station)

SUBMITTED: 26Feb64

ENCL: 00

SUB CODE: LS

NO REF SOV: 007

OTHER: 000

Card 2/2

SEREBROVSKIY, Valeriy Horisovich; GONELOVA, V.M., insh., red.; SOMOVA, T.M., inzh., ved. red.; GUDINA, N.A., tekhn.red.

[Surface quality of machine parts] Kachestvo poverkhnosti detalei mashin. Izd.4. Pod red. Gorelova V.M. Moskva, Mashgiz, 1962. 51 p. (Nauchno-populiarnaia biblioteka rabochegostanochnika, no.8)

(Mechanical engineering) (Surfaces (Technology))

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4"

PETRIK, M.I.; SHALIN, G.M., inzh., retsenzent; SCMOVA, T.M., inzh., ved. red.; CHURMANOVA, V.V., tekhn. red.

[Precise adjustment of machine-tool brackets] Pretsizionnye nastroiki gitar stankov; spravochnoe posobie. Moskva, Mashgiz, 1963. 152 p. (MIRA 16:7)

(Machine tools)

GUBERCRITS, A.Ya., prof., zasl. deyatel' nauki Udmurtskoy Avtonomnoy SSR; etv. red.; VORONCHIKHIN, S.F., zasl. deyatel' nauki Udmurtskoy Avtonomnoy SSR, red.; GAZIZOV, A.M., red.; ZARAYSTAYA, A.A., red.; MAMAYEV, A.W.; red.; ORESHKOV; T.W.; zasl. vrach Udmurtskoy Avtonomnoy SSR, red.; ODIYAHOV, G.A., red.; RUPASOV, N.F., red.; SCHOVA, V.I., red.; KUKLFANOVA, L.V., red.; MASHAGATOV, V.F., kand. med. nauk, red.; VORONTSOVA, Z.Z., tekhn. red.

[Problems in the pathology of the biliary tract; collected scientific works of the First Republic Clinical Hospital] Voprosy patologii zhelchnykh putei; sbornik nauchnykh trudov l-i Respublikanskoi klinicheskoi bol'nitsy. Izhevsk, Udmurtskoe knizhnoe izd-vo, 1960. 222 p. (MIRA 15:3)

l. Zaveduyushchiy terapevticheskimi klinikami Izhevskogo meditsinskogo instituta (for Gubergrits). 2. Terapevticheskaya klinika Izhewskogo meditsinskogo instituta (for Oreshkov, Mashagatov). 3. Zaveduyushchiy fakulitetom khirurgicheskoy kliniki Izhevskogo meditsinskogo instituta 1-oy Respublikanskoy klinicheskoy bolinitsy Ministerstva zdravochraneniya Udmurtskoy Artonomnoy SSR (for Voronchikhin). 4. Fakulitet khirurgicheskoy kliniki Izhevskogo meditsinskogo instituta 1-oy Respublikanskoy klinicheskoy bolinitsy Ministerstva zdravochraneniya Udmurtskoy Artonomnoy SSR (for Odiyankov).

(BILIARY TRACT—DISEASES)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4"

ZVYAGIN, L.M., kandidat meditsinskikh nauk; GIRSHOVICH, R.A.; SONOVA, V.V.

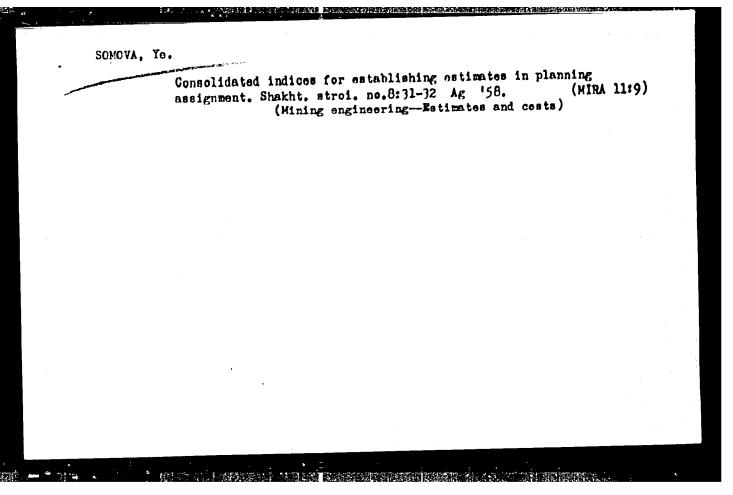
Transfusion of N.G. Belen'kii's therapeutic serus in insufficient lactation. Akush. i gin. no.3:51-54 Hy-Je '55 (MLRA 8:10)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. kafedroy-prof. F.G.Uglov) i akushersko-ginekologicheskoy kliniki (zav.kafedroy-prof. I.I.Yakovlev) I Leningradskogo meditsinskogo i stituta imeni akad. I.P.Pavlova)

(LACTATION DISORDERS

hypogalactia, ther., serum of Belen'kii) (BLOOD SERUM

serum of Belen'kii in ther. of hypogalactia)

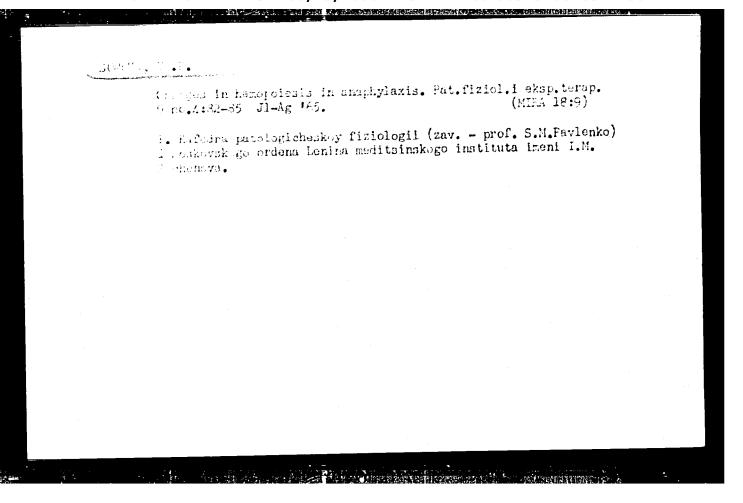


BUTOMO, D.G.; ZAMOTORIN, M.I.; ZEDIN, N.I.; SOMOVA, Ye.P.

Earing of copper strip. TSvet. met. 36 no.7:77-81 J1 '63.

(MIRA 16:8)

(Copper) (Rolling (Metalwork))



SOMOVA, Ye.P.

Picture of hepatic and splenic punctates during changes in the immunological reactivity of the body. Zhur.mikrobiol., epid. i immun. 42 no.10:14-19 0 65.

(MIRA 18:11)

1. I Moskovskiy ordena Lenina meditsinskiy institut imeni I.M.Sechenova. Submitted July 24, 1964.

Me ... There is a limit in the companies of the secretary and the secretary of the secretar

#### SOMOWA, E.

Economic problems of the Central Administration of Steel Construction on the basis of its activities. (To be contd )

p. 5 (Budownictwo Przemyslowe) Vol. 4, no. 2, Feb. 1955, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4"

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SCMOHA, E.

Economic problems of the Central Administration of Steel Construction on the  $\mbox{\tt hasis}$  of its activities. (Conclusion)

p. 15 (Budownictwo Przemyslowe) Vol. 4, no. 3, Mar. 1955, Warszawa, Poland

SO: MONT LY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4"

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SOMR, J.

"The amateur making oa a 1.1 cubic centi eter combustion motor."

p. 158 (Letecky Modelar) Vol. 8, no. 7, July 1957 Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no 4, April 1958

SOMS, M.K.

Apparatus for continuous local anesthesia. Med.prom. 12 no.7:55-57
J1158

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo instrumentariya i oborudovaniya.

(LOCAL ANESTHESIA)

(MEDICAL INSTRUMENTS AND APPARATUS)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4"

THE TOTAL STREET TO SELECT THE SECOND STREET, STREET,

SAVACHERKO, Rakhil' Ipat'yevna; inzh.; MASTRYUKOV, Vladimir Aleksandrovich, klinitsist-khirurg. Prinimal uchastiye SOHS, M.K., KAZNIN, V.P., red.; LYUDKOVSKAYA, H.I., tekhn.red.

[Manual on apparatus used for inhalation anesthesia] Rukovodstvo po apparature dlia ingaliataionnogo narkoza. Moskva, Gos.izd-vo med.lit-ry Medgiz, 1960. 158 p. (MIRA 14:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo instrumentariya i oborudovaniya (for Savachenko).

(ANESTHESIOLOGY.-EQUIPMENT AND SUPPLIES)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4"

The Therman Continue to the Co

GAL'PERIN, Yu.S.; SOMS, M.K.; YUREVICH, V.M.

New Soviet apparatus RN-59 for artificial respiration during anesthesia. Khirurgiia 36 no.7:139-142 Je '60. (MIRA 13:12) (RESPIRATORS)

BELHOVSKIY, M.A.; GALIFERIN, Yu.Sh.; SOMS, M.K.

Analysis of activating devices used in biologically controlled artificial respiration. Nov. med. tekh. no.3:125-133 165.

(MIRA 19:1)

The second section of the second seco	
L 31983-66 ACC NR: AP6005338	- F
INVENTOR: Gal'perin, Yu. Sh.; Soms, M. K.; Bardiyer, N. M.; Gorlin, I. K.	
TITLE: Artificial respiration equipment. Class 30, No. 177597 [announced by (Vsesoyuznyy nauchno-issledovatel skiy institut meditsinskikh institut netrospiration oborudovaniya)]	
TOPIC TAGS: artificial respiration, respiration equipment, respiration device device containing apower-operated blower, a membrane box, inspiration and expiration tubing complete with cocks and values of the state	
as artificial respiration with active inspiration and passive expiration as well to breathe, an electromagnetic valve in the suction line of the blower, and a cock it with the atmosphere. To simplify the set-up procedure for specific operating	
SUB CODE: 00/ 000	

ACC NR: AP7002596 (A,N) SOURCE CODE: UR/0413/66/000/023/0102/0102

INVENTOR: Soms, M.K.; Krishtul, I.B.; Polyakov, V.I.; Dmitriyev, V.N.; Gradetskiy, V.G.

ORG: none

TITLE: Pneumatic time relay. Class 42, No. 189234 [announced by All-union Scientific Research Institute of Medical Instruments and Equipment (Vsesoyuznyy nauchno-issledovatel'sky institut meditainskikh instrumentov, i, oborudovaniya); Institute of Automation and Telemechanics AN SSSR (Institut automatiki i telemekhaniki AN SSSR)]

(TEKNACIESKO, KIGERNETIKI)

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 102

TOPIC TAGS: pneumatic device, pneumatic control, automatic pneumatic control, TIME KELAY, TIME SCUITCH

ABSTRACT: An Author Certificate has been issued for the pneumatic time relay shown in Fig. 1. To provide independent fine control of switching time the receiving nozzle of the jet unit is connected through uncontrolled resistance to the dead-end chamber, one end of which forms a diaphragm.

Cord 1/2

UDC: 681.118.5-525

ACCAPPROVED 750 RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4

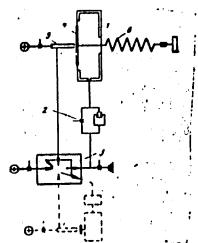


Fig. 1. Pneumatic time relay

1 - Dead-end chamber; 2 - uncontrolled resistance; 3 - jet unit; 4 - flapper; 5 - nozzle; 6 - controlled spring.

This diaphragm acts as the flapper of the switching unit and is coupled with a controlling spring. The switching unit nozzle is connected to the control line of the jet-unit.

SUB CODE: 13/ SUBM DATE: 14Dec65/ ATD PRESS: 5114

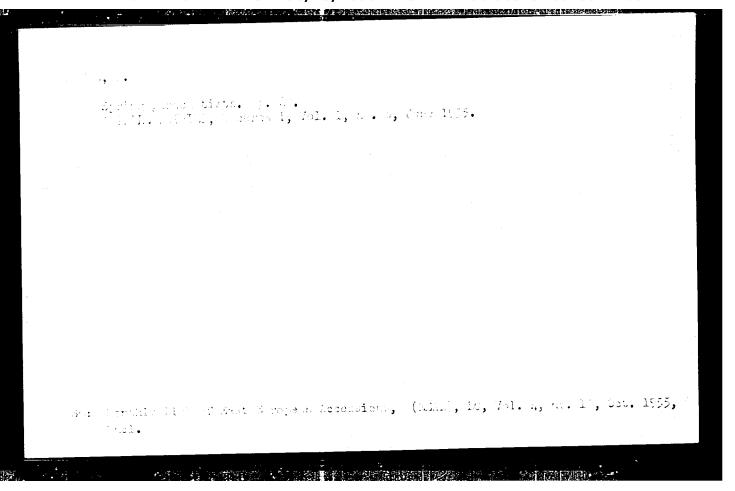
Card 2/2

TURCHINS, Ya.B., otv. red.; PURIN, V.R., kand. ekon. nauk, red.; TUMSHEVITS, V.F., kand. ekon. nauk, red.; SOMS, R.V., red.; TEYTEL'BAUM, A., red.; LEVI, S., red.; PILADZE, Ye., tekhn. red.

[Developing the national economy of the Latvian S.S.R.] Razvitie narodnogo khoziaistva Latviiskoi SSR; sbornik statei. Riga, Izd-vo Akad. nauk Latviiskoi SSR, 1961. 461 p. (MIRA 14:11)

1. Latvijas Padomju Sotsialistiskas Republikas zinatmu akademiya. Ekonomikas institut.

(Latvia—Economic conditions)



JOMUJ, D.

First joys. p. 8. Aripile Patriei. Buguresti. Vol. 1, No. 8, Aug. 1955.

SOURCE: East European Accessions List (EEAL), LC. Vol. 5, No. 3, March 1956.

SUMUZ, D.

SCMUZ, D. The fighter. p. 10

Vol. 4, no. 9. Sept, 1955 ARIPILE PATRIEL TECHNOLOGY Bucuresti

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), IC, VOL. 4. no. 9, Sept. 1955, Uncl.

SCHTZ D.

The Pursuit Plane. Aripile Patrici (The Wings of the Fatherland), #5:10:May 55

SOME, D.

Young Persolations (Teen Are Persolations). Arinile Patrici (The Wings of the Fatherland), #6:20:June 55

STONYK, P.M.

High rewards oblige. Mekh.sil. hosp. 9 no.12:3-4 D 58. (MIRA 12:1)

1. Zamestitel' zaveduyushchego sel'skokhozyaystvennym otdelom TSentral'nogo komiteta kommunisticheskoy partii Ukrainy.

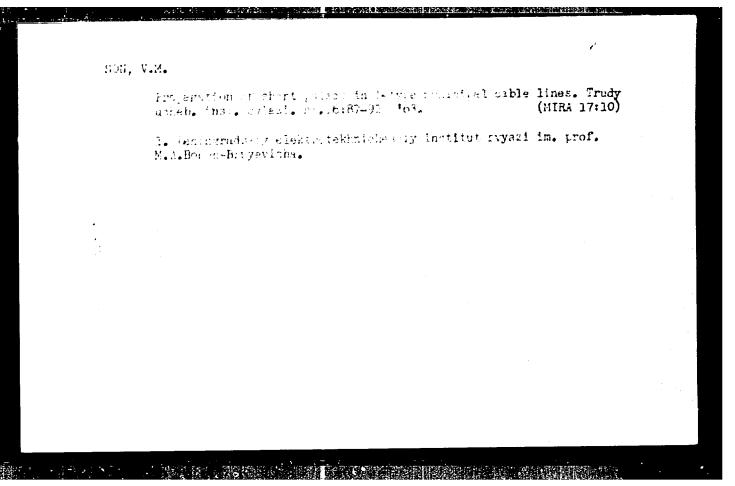
(Ukraine---Repair and supply stations)

SAVIN, D.K., nauchn. sotr.; FRANKOVSKIY, TS.F., nauchn. sotr.; NAURUZBAYEV, S.K., nauchn. sotr.; SOIL, I.E., nauchn. sotr.; SUSLIN, V.D., nauchn. sotr.; MARTYUSHEV, Ye.D., nauchn. sotr.; ORLOVSKAYA, A., red.; YEGOROVA, V., red.

[Mechanization of livestock feeding] Mekhanizatsiia otkorma skota. Alma-Ata, Kainar, 1965. 237 p. (MIRA 18:7)

1. Kazakhskaya Akademiya sel'skokhozyaystvemnykh nauk. Nauchno-issledovatel'skiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva. 2. Kazakhskiy nauchno-issledovatel'skiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva (for all except Orlovskaya, Yegorova).

## "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4



# "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4

SCMTOI, B.; NAGY, I.

The National Championship of Parachutists; in place of a report. p. 8 Vol. 9, No. 10, Cet, 1956.

SOURCE: East European List, (EEAL) Library of Congress Vol. 6, No. 1 January 1956.

BUSILA, V.T.; POP. O.; VASILESCU, I.; TOPCIU, VI.; POPIAN, R.; CUCURUZ, L.; ALEXANIRUSCU, R.; ISACSON, I.; SON, C.; CRAVCEVSCHI, V.; ZILBERMAN, L.; FITARAU, A.; JICMAN, M.

Clinical study of leptospirosis. Stud. cercet. inframicrobiol., Bucur. 8 no.2:259-280 1957.

1. Communicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R. in sedinta din 5 marte 1956.

(LEPTOS PIROS IS

pathol. & epidemiol. of L. pomona, L. canicola & other leptospiral infect. in Rumania, case reports & review)

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# "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4

SON, Yu.A.; SEMENOVA, L.M.

Instruments for measuring the pitch of precisien gears. Stan. 1 instr.

30 no.2:23-24 F '59.

(Measuring instruments) (Gear cutting)

CZECHOSLOVAKIA/Allorgy

U-2

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 27613

Author

: Broznen, M., Sonak, R.

Inst

: Not Givon

Title

: The Change in the Course of Arthus Phenomenon and in Preci-

pitins' Titor During Drug Induced Sleop.

Orig Pub : Fratisl. loker. listy, 1956, 1, No 9, 513-523.

Abstract: The rabbits! light sleep that had been induced by wrethen and medinal failed to change the course of Arthus phenomenon (AP) or the titer of precipitins (TP). Deep sleep was accompanied by depressed AP and a lowered TF for 3 days. When a texic desage of hypnotics was given no depressionof AP and

TP was observed.

: 1/1 Card

14

SONAK, R.

Demonstration of stimulated antibody formation in organs of sensitized animals by means of serological methods. Cas.lek.cesk 99 no.49:1337-1344 2 D 160.

1. MHES, Bratislava, riaditel MUDr. Frantisek Lacko.

(ANTIGENS ANTIBODY REACTION)

## "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4

KOLLAHOVA, K.; SONAK, R.

Treatment of allergic diseases with auto-vaccines. Bratisl. lek. listy 42 no.1:36-43 '62.

1. Z alergologickeho oddelenia FN v Bratislave, prednostka MUDr. F. Kollarova, a z Mestskej hyg.-epid. stanice v Bratislave, riaditel MUDr. F. Lacko.

(ALLERGY ther) (VACCINE THERAPY)

SUNNK, R.

CZECHOSLOVAKIA

SONAK, R.

City Hygiene-Epidemiological Station (Mestski hyg-epidem. stanica), Bratislava

Bratislava, Lekarsky Obzor, No 2, 1963, pp 71-80

"Streptococci and the Serological Reactions in Rheumatic Diseases."

FERENCEI, M.; MASAR, I.; PALANOVA, A.; PUCEKOVA, G.; SONAK, R.

Use of the hemagglutination test for the determination of the diphtheria antitoxin level and the Schick test in epidemiological practice. Cesk. epidem. 12 no.5:276-281 S \*163.

l. Mestska hygienicko-epidemiologicka stanica v Bratislave Odbor SNR pre zdravotnictvo Krajska hygienicko-epidemiologicka
stanica v Banskej Bystrici a v Bratislave.

(HEMAGGLUTINATION) (DIPHTHERIA ANTITOXIN)

(DIPHTHERIA TOXIN) (IMMUNITY)

ANTOLOVA, T.; HANZEL, J.; NOVAK, A.; SONAK, R.

Apropos of diphteria bacteria carrier states. Bratisl. lek. listy 44 no.5:269-280 '64

l. Mestska hygienicko-epidemiologicka stanica v Bratislave (riaditel: MUDr. r.Lacko) a II.detska klinika Lek.fak. Univ. Komenskeho v Bratislave (veduca: prod. MUDr. J. Michalickova).

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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4"

NOVAK, A.; SONAK, R.

Importance of determining the level of diptheria antitoxin in the blood in clinical pract. ce. Cesk. pediat. 19 no.8:681-687 Ag \*64.

1. II. detska klinika Lekarskej fakulty University Komenskeho v Bratislave, (prednostka prof. dr. J. Michalickova) a Mestska hygienicko-epidemiologicka stanica v Bratislave (riaditel MUDr. F. Lacko).

## SCNAKOVA, VALERIA

Svalovy system. Pratislava, Slovenske pedagogicke nakl., 1954. 98 p. (The muscular system; a textbook. illus.)

DNIM Not in DIC

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

SONCHIK, K. K.: Master Tech Sci (diss) -- "Investigation of delaying the discharge in electrical breakdown of certain solid dielectrics". Tomsk, 1958.

10 pp (Min Higher Educ USSR, Tomsk Order of Labor Red Banner Polytech Inst im S. M. Kirov), 150 copies (KL, No 7, 1959, 110)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4"

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### "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4

Souchik, K. K. (Tomsk, Politekholeheskiy institut (Polytechnical Institute)) On Discharge Time Delay in Ionic Crystals

\*

(The Physics of Dielectrics; Transactions of the All-Union Conference on the Physics of Dielectrics) Moscow, Izd-vo AN SSSR, 1958. 245 p. 3,000 copies printed.

This volume publishes reports presented at the All-Union Conference on the Physics of Dielectrics, held in Duepropetrovsk in August 1956 sponsored by the "Physics of Dielectrics" Laboratory of the Fizicheskiy institut imeni Labedava An SSSR (Physics Institute item! Labedava of the AS USSR), and the Electrophysics Department of the Duepropetrovskiy gosmanstvennyy universitet (Duepropetrovsk State University).

AUTHOR: Sonchik, K.K.

SOV/139-58-4-11/30

AUTHOR: Souchik, K.

TITLE:

Carrier R

On the Statistical Time Lag in Common Salt (O stati-

sticheskom zapadyvanii v kamennoy soli)

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Fizika,

1958, Nr 4, pp 73 - 75 (USSR)

ABSTRACT: A paper read at the Inter-university Conference on Dielectrics and Semi-conductors, Tomsk, February, 1958.

Dielectrics and Semi-conductors, Tomsk, February, 1995.
Contradictory views were expressed by various authors

on the magnitude of the static time lag. In the experiments described in this paper, the author coloured

to intensive yellow specimens of common salt by irradiating with X-rays (120 kV, 10 mA) for a duration of 4 hours. The X-ray irradiation was effected after depositing onto the specimens in vacuum tin electrodes which were almost no barrier at all to the passage of X-rays. The test rig is shown in the sketch, Figure 1. The distribution of the experimental points of the time lag versus voltage of the discharges for non-irradiated and irradiated specimens is entered in the graphs,

Figure 2. The statistical evaluation of the data for a voltage of 9.2 kV is graphed in Figure 3. The breakdown

tests were effected in air, using a square-shaped

Card1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4"

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On the Statistical Time Lag in Common Salt SOV/139-58-4-11/30

voltage surge with a front duration of 2 to 3 x  $10^{-8}$  sec thick. The observed difference in the delay time of the discharge of the non-irradiated and irradiated 0.12 mm thick specimens was merely of the order of 10% and this indicates that under the pertaining conditions, if it exists at all, the statistical time lag does not exceed  $10^{-8}$  sec. There are 3 figures and 9 references, 1 of which is English, 1 German, 2 Japanese and 5 Soviet.

ASSOCIATION:

Tomskiy politekhnicheskiy institut imeni S.M.Kirova (Tomsk Polytechnical Institute imeni S.M. Kirov)

SUBMITTED: February 25, 1958

Card 2/2

807/139-98-6-25/29

AUTHOR:

Sonchik, K.K.

TITLE:

On the Second Stage of Breakdown of Solid Dielectrics

(O vtoroy stadii proboya tverdykh dielektrikov)

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavederiy, Fizika,

1958, Nr 6, pp 158-160 (USSR)

ABSTRACT:

The current theory of breakdown of solid dielectrics deals only with the first stage of breakdown when the electrical strength falls and current rises without any increase in the applied voltage. The second stage,

increase in the applied voltage. The second stage, during which a large current passes through the dielectric and partial destruction of the latter occurs, is not covered by the current theory. The present paper reports experimental data on the second stage of breakdown of ionic crystals NaCl, KCl, KBr and KV. The author recorded oscillograms of breakdown on application of square voltage pulses with (2-3) x 10-5 sec fronts. From these oscillograms the time of fall of the voltage (tsp) on breakdown was found (Fig 1). The oscillograms were magnified five times and the smallest

oscillograms were magnified five times and the smallest time interval that could be measured was 10-9 sec. Table 1 gives the arithmetic mean values of ten (each

Card 1/2

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On the Second Stage of Ereakdown of Solid Dielectries

obtained from at least ten oscillograms). The nable shows that the value of too both in uniform and non-uniform fields is of the order of 1000 sec and it increases with increase of the lattice constant (on transition from MaCl to FV) and with increase of the sample thickness. Acknowledgement is made to Professor Dr.A.A.Vorobyev for his advice. There is I figure, I table and 14 references of which 10 are Soviet, 3 English and I derman.

ASSOCIATION: Tomskiy Politekhnicheskiy Institut imena S.M. Kirova (Tomsk Polytechnical Institute imena S.M. Kirov)

SUBMITTED: 15th May 1958

Card 2/2

#### "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4

JONCHIK, K. K. (TPI)

"The time of lagging of the discharge in the ion crystals is the shorter, the higher the excess voltage at the sample and the crystal lattice energy are"

Report presented at a Conference on Solid Dielectrics and Semiconductors, Tomak Polytechnical Inst., 3-8 Feb. 58. (Elektrichastvo, '58, No. 7, 83-86)

SOV/143-58-10-19/24

9(3) AUTHORS: Vorob'yev, A.A., Vorob'yev, G.A., Sonchik, K.K.

TITLE:

A Case of Lightning Strokes

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Energetika,

1958, Nr 10, pp 145-146 (USSR)

ABSTRACT:

A thermal thunderstorm was observed over Tomsk on June 29, 1958, at 1200 hours. Lightnings struck two poplars and a building located on the hill Voskresenskaya gora within the city. Observers saw five lightning strokes. Two strokes hit the lightning arresters of the building. Two strokes hit two poplars which were located within the protection zone of the lightning arresters. The fifth stroke hit in a great distance of the other four. The authors present four photographs showing the destructions of the trees caused by lightnings. One of the poplars was hit at a height of 10 m (the total height was 16 m). There, the lightning went thru a wooden box for starlings having sheet metal top and bottom. The box was split. The rind of both poplars was torn off and a large splinter destroyed

Card 1/2

A Case of Lightning Strokes

THE REPORT OF THE PROPERTY OF

307/143-58-10-19/24

a window located at a distance of 4 m from the trees. A woman working in the kitchen noticed electrical discharges during the lightning strokes. The water and power mains and the central heating were in the immediate vicinity. A receptacle in the kitchen was destroyed. The plug at the power meters was burnt, and the telephone became defective. The authors assume that the discharges inside the building were caused by the lightning current passing thru the roots of the poplars. The authors point to the danger caused by trees in the immediate vicinity of buildings during thunderstorms. Therefore, lightning arresters are necessary. Further, it is mentioned that some people claimed to have seen a red-colored spherical lightning at a height of some ten meters, disappearing with a loud noise. There are 4 photographs.

Card 2/2

#### "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4

AUTHOR:

Sonchik, K. K.

48-22 4-15/24

TITLE:

On the Time Lag in the Discharge of Ionic Crystals (O vremeni zapazdyvaniya razryada v ionnykh kristallakh)

. Sec. 2. January (Charles and Charles and

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya,

1958, Vol. 22, Nr 4, pp. 423-426 (USSR)

ABSTRACT:

The physical processes in the electric breakdown exhibit different times of development in different dielectrics and under different conditions. The duration of the electric breakdown is a characteristic of the specific substance and permits to evaluate the mean velocity of the discharge expansion. The periods of discharge delay computed by Whitehead, Simpson et al. (Reference 1) for solid dielectrics show marked differences between each other. The experimental data also are incomplete and often contradictory. The author developed a new method and a new scheme for the determination of the lag times of discharge in solid dielectrics by means of applying a single rectangular voltage pulse. Here, a high voltage oscillograph with a high recording velocity and samples with me-

Card 1/3

On the Time Lag in the Discharge of Ionic Crystals 48-22-4-15/24

tallic electrodes with a low resistance were employed. In the recording of processes with a duration of 10 8 seconds and less the synchronization of time involution and of the investigated phenomena by means of a spark relay (Reference 8) (because of the great time spread during the elaboration) could not be regarded as sufficient. The author applied a hard (zhestkaya) synchronization without commutation elements according to the scheme proposed by G. A. Vorob'yev (Figure 2). This hard synchronization consisted in eliminating the time spread between the inset of time involution and of the investigated phenomenon. The pulse was always visible at the same place on the scree of the tube. Time calibration was conducted by means of a high-frequency generator. The period of discharge delay was determined in natural monocrystals of rock salt from the site of Artemov (Ukrainian SSR). The delay period came out as about  $\Psi = 37,5\%$ , that is to say, if  $t_{lag} = \tau$  holds in this case,  $\Psi = n_t / n_o = \exp(-t_{lag} / \tau)$ . As a result of the measurements it was stated, that the period of discharge delay is reduced with an increase of excess voltage. The preliminary experiments gave the result, that no reduction of the discharge period takes place in

Card 2/3

On the Time Lag in the Discharge of Ionic Crystals 48-22-4-15/24

> irradiated samples and samples, which were illuminated during experiments, in comparison to not irradiated samples. This proves, that the statistical time lag in rock salt (with a thickness of 0,12 mm) is very small, if it exists at all. The author is indebted to A. A. Vorob'yev and G. A. Vorobyev for valuable advice. There are 2 figures and 8 references, 2 of which are Soviet.

ASSOCIATION:

Tomskiy politekhnicheskiy institut (Tomsk Polytechnical

Institute).

AVAILABLE:

**Š**EČS:

Library of Congress

1. Crystals--Discharge 2. Time--Applications --Properties 4. Voltage--Applications 3. Crystals

Card 3/3

# SONCHIK, K.K.

Measuring the electric conductivity of ionic crystals using pulses.

[MIRA 14:9]

Izv. TPI 95:264-271 \*58.

1. Predstavleno professorom doktorom A.A.Vorob'yevym.
(Ionic crystals--Electric properties)

24(3) AUIHOR:

Jonchik, K. K.

SOV/20-123-1-19/56

TITLE:

The Temperature Dependence of the Delay of Discharge in Rock Salt (Temperaturnaya zavisimost' zapazdyvaniya razryada v kamennoy soli)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 1, pp 76-77 (USSR)

ABSTRACT:

The author investigated the delay of a discharge in rock salt in dependence of the applied voltage at the temperatures of -70, 20 and 140° in a homogeneous— and inhomogeneous electric field under the action of single rectangular voltage pulses with amplitudes of up to 30,000 V. The front of the pulses remains conserved for  $(2 + 3).10^{-8}$  sec. The pulses were recorded by means of a high-voltage electron oscillograph. The thickness of the samples for investigation of breakdown in a homogeneous and inhomogeneous field amounted to d = 0.2 mm and d = 0.25 mm respectively. The tin electrodes were then vaporized on to the samples in the vacuum. Breakdown at -70° took place in benze: but at 20° and 140° in transformer oil. The excessive voltage on the sample was determined as the ratio between the amplitude U of the rectangular voltage pulse and the static

Card 1/3

The Temperature Dependence of the Delay of Discharge in Rock Salt

507/20-123-1-19/56

breakdown voltage  $U_{st}(f = U/U_{st})$ . The time of delay was determined from the oscillograms as the difference in time between the instant of time in which the voltage on the sample attained the value  $\mathbf{U}_{\mathbf{St}}$  and the breakdown. The delay times measured for 10 to 20 samples were statistically evaluated and herefrom the mean time of delay was determined. A diagram shows the dependence of the time of delay in NaCl samples on temperature for  $\beta = 1.15$  and  $\beta = 1.25$ . In a homogeneous as well as in an inhomogeneous field the time of delay decreases with increasing overvoltage. Such a decrease occurs at low as well as at high temperatures. Besides, also a decrease of the delay time of the discharge is observed at a given overvoltage in the case of increasing temperature. With rising temperature thermal ion oscillations increase; by this the further approach of the electron avalanche is rendered more difficult and the velocity of the discharge decreases. The short times of development

Card 2/3

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The Temperature Dependence of the Delay of Discharge in Rock Salt

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of the discharge (order of magnitude from 10<sup>-7</sup> to 10<sup>-8</sup> sec) indicate that the electric breakdown of rock salt is of electronic character in the temperature range investigated. The author thanks Professor A. A. Vorob'yev for the interest he displayed in connection with this work as well as for his valuable advice. There are 1 figure and 5 references, 3 of which are Soviet.

ASSOCIATION: Tomskiy politekhnicheskiy institut im. S. M. Kirova

(Tomsk Polytechnic Institute imeni S. M. Kirov)

PRESENTED:

June 19, 1958, by V. D. Kuznetsov, Academician

SUBMITTED:

June 12, 1958

Card 3/3

24(3)

AUTHOR: Sonchik, K.K. SOV/139-59-1-22/34

TITLE:

Temperature Dependence of the Discharge Lag in Rock Salt (Temperaturnaya zavisimost: zapazdyvaniya raziyada v

kamennoy soli)

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Fizika,

1959, Nr 1, pp 124-127 (USSR)

ABSTRACT: Increase of the breakdown voltage of solids, when pulses of 10-7 to 10-8 sec and shorter duration are applied, is due to a discharge lag. The time lag consists of a statistical time lag tst and a time necessary for formation of the discharge  $t_f$ . In ionic crystals the time  $t_{s^+}$  may be neglected and the time lag taken to be equal to  $t_f$ . The author reports studies of the discharge lag in rock-salt as a function of the applied voltage at temperatures of -70, +20 and +140 °C in uniform and nonuniform electric fields, applied in the forms of single square pulses of 30 kV amplitude and a (2-3) x 10-8 sec front. The pulse generator was described earlier

(Ref 5). A high-voltage c.r.o. was used to record the pulses. The samples were cut in the direction [100] from Card 1/5 a single piece of natural rock-salt. Their dimensions

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Temperature Dependence of the Discharge Lag in Rock Salt

were 20 x 20 x 4 mm. For tests in a uniform field a hemispherical hole was drilled in one side (its diameter was 10 mm) in such a way as to make the sample thickness at its thinnest place equal to 0.2 mm. For breakdown in non-uniform field the samples had a conical cavity with the cone angle of 60°. This cavity was rounded off at the bottom and the sample thickness at this point was 0.25 mm. Vacuum-deposited tin electrodes were used. Breakdown tests at  $-70^{\circ}\text{C}$  were carried out in benzene, and those at +20 and +140 °C in transformer oil. The overvoltage  $\beta$ was defined as the ratio of the applied voltage U to the static breakdown voltage Ust. Ust was taken to be the breakdown voltage when a single pulse was applied with a 5 x 10-6 sec front and when the probability of breakdown  $\psi$  was 90%. Samples of the same thickness, and with the same overvoltage applied to them, exhibited different time lags. The reported values are averages which were obtained after appropriate statistical treatment. If the logarithm of the ratio  $n_t/n_0$  ( $n_t$  is the number of

Card 2/5 samples which broke down after a time lag t<sub>1</sub> or after a longer time, and n<sub>o</sub> is the total number of samples

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Temperature Dependence of the Discharge Lag in Rock Salt tested) is plotted as the ordinate, with the time 'ag to as the abscissa then the step-like curve so obtained may be approximated by a straight line given by:

 $n_1/n_2 \approx \exp(-it_1/\gamma)$  (1)

Such an equation is characteristic of an ionization process with  $\Upsilon$  as the mean time lag. Fig 2 shows the plot of log  $(n_t/n_0)$  2  $f(t_1)$  at  $\beta=1.09$  for NaCl samples in a non-uniform field at  $\pm 140^{\circ}$ C. The value of  $\pm 1$  at  $(n_t/n_0)=36.8\%$  was taken as the mean time lag  $\Upsilon$ . The time lags at other overvoltages and temperatures were determined in a similar fashion and their distribution could also be approximated by the straight line of Eq (1). Fig 3a represents the dependence of the time lag  $\pm 1$  on the overvoltage  $\beta$  in breakdown of NaCl samples in a uniform field; Fig 3d represents the same dependence in a non-uniform field. With rise of the overvoltage the value of  $\pm 1$  decreases toth at low and at high temperatures. At a given overvoltage the time lag increases with increase of temperature. Electric strength  $\pm 1$ 0 NaCl crystals on breakdown in uniform field at  $\pm 1$ 00 NaCl

Card 3/5

SOV/139-59-1-22/34

Temperature Dependence of the Discharge Lag in Rock Salt

particularly in the region of high values of β

(over 1.2), the time lag decreases with lowering of
temperature. This should also be taken into account in
design of electrical insulation. Acknowledgement is
made to Professor Dr. A.A. Vorobiyev for his advice.

Card 5/5 There are 3 figures and 10 references, 6 of which are Soviet, 3 English and 1 Japanese.

ASSOCIATION: Tomskiy Politekhnicheskiy Institut imeni S.M. Kirova (Tomsk Polytechnical Institute imeni S.M. Kirov)

SUBMITTED: May 15, 1958

SOV/109-4-8-5/35

Vorob'yev, A.A., Vorob'yev, G.A., Mesyats, G.A. and AUTHORS:

Pulse and Oscillographic Techniques for the Measurement TITLE:

A CONTRACTOR OF THE PROPERTY O

of Discharge Lags in Dielectrics

Radiotekhnika i elektronika, 1959, Vol 4, Nr 8, PERIODICAL:

pp 1257 - 1259 (USSR)

The discharge lags in dielectrics, subjected to action ABSTRACT:

of rectangular voltage pulses, can be determined by using the circuit of Figure 1. In this, the capacitances C<sub>1</sub> and C<sub>2</sub> are discharged, while the thyratron T is A voltage pulse is thus produced across the resistance R<sub>1</sub>; this can be used for the investigation

of dielectrics. The voltage pulse appearing at the capacitance  $C_{\Pi}$ , which is connected in parallel with

the vertical plates of the oscillograph, is used as the time base. In this manner, a synchronism is achieved between the investigated phenomenon and the time base so that the pulse always appears at the same spet of the

Card1/3

SOV/109-4-8-5/35

Pulse and Oscillographic Techniques for the Measurement of Discharge Lags in Dielectrics

screen. The resistances  $R_2$  ,  $R_2^t$  and  $R_g$  and capacitance C can be determined from the condition of the required writing speed for the tube. The deficiency of the circuit lies in the absence of a horizontal portion in the time base preceding the leading edge of the pulse. The circuit of Figure 1 can produce pulses having a rise time of 3 x 10 sec. If it is necessary to obtain faster pulses, having amplitudes of the order of 20 kV, a different technique is used. A suitable pulse generator, which can give rise times of the order of 10<sup>-9</sup> sec is illustrated in Figure 2. In this, the resistances R1, R2, ..., Rn divide the voltages over the switching gaps  $P_1, P_2, \ldots, P_n$ . When the gap  $P_1$ discharges the capacitance  $C_1$ , a larger voltage is applied to the gap  $P_2$ , which is rapidly broken down. The last gap, P, receives the highest over-voltage.

Card2/3

SONCHIK, K.K.

Second stage in the breakdown of solid dielectrics. Izv.vys.ucheb. zav.; fiz. no.6:158-160 '59. (MIRA 12:4)

1. Tomskiy politekhnicheskiy institut im. S.M. Kirova.
(Dielectrics--Testing)

VOROB'YEV, A.A., prof.; VGROB'YEV, G.A.; VGROB'YEV, N.I.; KALGANOV, A.F.;
KALYATSKIY, I.I.; KUCHIN, V.D.; MESYATS, G.A.; POKROVSKIY, S.F.;
SONCHIK, K.K.; CHEPIKOV, A.T.; DOEGINOV, A.I., red.; VORONIN, K.P.,
tekhn.red.

editor com a la company de la

[High-voltage test equipment and measurements] Vysokovol'tnoe ispythtel'noe oborudovanie i izmereniis. Pod red.A.A.Vorob'eva. Moskva, Gos.energ.izd-vo. 1960. 583 p.

(MIRA 14:1)

1. Sotrudniki kafedry tekhniki vysokikh napryazheniy Tomskogo
politekhnicheskogo instituta (for all except Dolginov, Voronin).

(Electric testing) (Electric measurements)

-5(2)

201/32-24-16-6745

AUTHORS:

Kremer, V.A., Vayl', .e.i., Frizjum, F.F., Con. bik, L.S.

TITLE:

Rapid Method for the Analysis of Lead and Zinc ir Bronzes Using a Potentiometric Titration After a Sulfide Precipitation

(Ekspress-metod analiza svintsa i tsinka v bronzakh putem potentsio-

metricheskogo titrovaniya po osazhdeniyu v vide sul'fidov)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 12, pp 1440-1441 (USSR)

ABSTRACT:

in order to remove the influence of tin, antimony, iron, and nickel in these analyses (Refs 1-3) the lead and zinc to be determined were leached in a hydroxo complex. The potentiometric titration of the lead and zinc (and trace amounts of copper) was carried out in 2 M and 0.5 M hydroxide solutions (Fig 1). Definite steps in the potential curve can be observed, which indicates a quantitative precipitation of each kind of ion present. In a titration of 2 molar electrolyte solution (50-60°) the potential of the equivalence point was 450 mV for copper and 650 mV for lead. The titration curve for zinc has a less definite equivalence point, so that with a zinc determination in a 0.5 molar solution or NaOH at 70-800 it amounted to 150-770 mV. The potentiometric measuring apparatus and the method of storing the sodium sulfide solution were previously described (Ref 3). The titration was carried out using three electrodes of

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Rapid Method for the Analysis of Lead and Zinc in Bronzes Using a Potentiometric Titration After a Sulfide Precipitation

synthetic argentite, and the same electrode was used each time for each of the different ions (copper, lead, and zinc). The analytical procedure for a OTSS pronze is given. The lead- and zinc content was determined using calibration curves. The relative error of the method is  $1-2\beta$ . There are 2 figures, 1 table, and 4 Soviet references.

ASSOCIATION: Khar'kovski, gorny, institut, Institut khimil Khar'kovskogo gosudarstvennogo universiteta i Khar'kovskiy zavod vtoricnnykh tsvetnykh metallov (Khar'kov Mining Institute, Institute of Chemistry of the Ahar'kov State University and Khar'kov Plant for Secondary honferrous Metals)

Card 2/2

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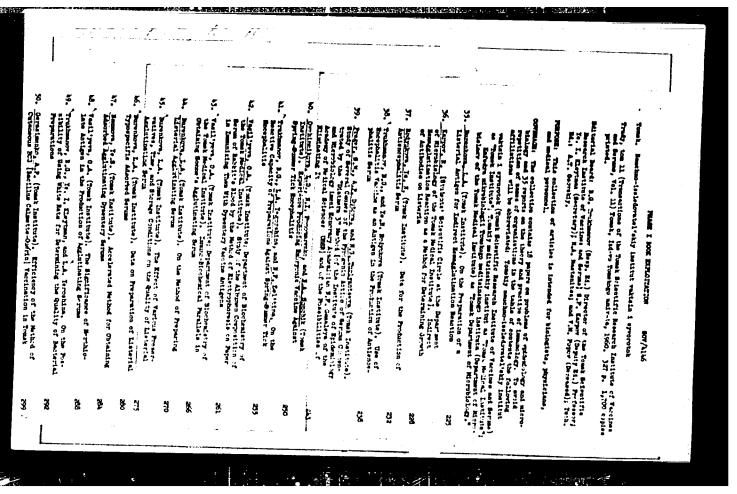
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OVCHINNIKOVA, L.D.; PONOMARENKO, N.I.; SONCHIK, N.A.

Experience in the production of a brain vaccine against tick-borne encephalitis. Vop.virus. 4 no.5:563-566 S-0 59. (MIRA 13:2)

1. Tomskiy nauchno-issledovatel skiy institut vaktsin i syvorotok Ministerstva zdravookhraneniya SSSR.

(ENCEPHALITIS, immunol.)



OVCHINNIKOVA, L.D., PONOMARENKO, N.I. SONCHIK, N.A.

Preparation of embryonal vaccine against spring and summer tick-borne encephalitis. Trudy TomNIIVS 11:250-254 160.

(MIRA 16:2)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok. (ENCEPHALITIS) (VACCINES)

LISTOV, Konstantin Mikhaylovich; TROFIMOV, Kirill Nikolayevich, Prinimali uchastiye: GRISHIN, M.G.; SCNCHIK, S.S.; SAVODNIK, A.V.; GNUTIKOV, P.I., polkovnik, red.; STREL NIKOVA, M.A., tekhn.red.

[Radio and rader engineering and its use] Radio i radiolokatsionnaia tekhnika i ikh primenenie. Moskva, Voen.izd-vo M-va obor. SSSR, 1960.
423 p. (MIRA 13:4)

(Radio) (Radar)

SORCATK, V.K

Method of quantitative spectrum analysis of intermediates and tailings in tin production V. I. Damilova and V. K. Sonchik. Trudy Sibir. Fiz.-Tekh. Inst. 1933. No. 32. 81-91. Referat. Zhur., Khim. 1954, No. 48559.—Slags were analyzed for Sn. Sl. Ca. Fe. Al. and W. and tailings for Sn and Fe by using 3 standards wherein a 2-g. sample was fed for 2 min. through the discharge zone between C electrodes with the ald of a special mechanism. For comparison, there was added to the sample 30% Cu as CuO. The activated are was of 6 amp.; parallel to the condenser was inserted a 18-20 microfarad capacitance; and the distance between the electrodes was 2 mm. In the analysis of slag for 0.11 4% Sn the lines Sn/Cu 2863/2825, 2840/2825, and 2572/2018 (relative error 8-9%) were used. For 0.11-17% Sn the lines Sn/Cu 2572/2492 (9.6%), and 2661/2018

APPROVED FOR RELEASE: 08/25/2000

(-24%) were used. For 6.8-15.0% Al the lines Al/Ca 3082/3108 and 3092/3108 (±20%) were used. For 8-30% Ca the lines Ca/Cu 3179/3108 and 3158/3108 (±7 to ±30%) were used. For 0.90-34% Fe<sub>2</sub>O<sub>1</sub> the lines Fe/Ca 3047/3064 (20%) and 2973/2961 (10%) were used. For 0.8-8.5% WO, the lines W/Cu 3215/3064 and 2947/2901 (12-16%) were used. For SI the lines Sl/Cu 2881/2825, 2528/2492, and 2135/2502 were used. The duration of a slag analysis is 3 hrs. In the analysis of tailings for 0.90-4.5% Sn the lines Sn/Cu 2863/2825 were used (relative error 25%) and 2340/2825 (10-15%). For 6-21% Fe<sub>2</sub>O<sub>3</sub> the lines Fe/Cu 3047/3064 (10-15%) were used. No calibration curves were made for As since its concen. in tailings changed very little. The method was tested on various Sn concentrates and was found suitable for detg. As, W, Pb, Bi, Sb, and Zn.



CIA-RDP86-00513R001652410017-4"

"Spectroscopic Determination of Some Electric Characteristics in Glow Mischange," Gand Phys-Math Sci, Tomak State U, Tomak, 195h.

(ETHFIL, Mar 15)

So: Sum. No. 670, 29 Sep 55—Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

ANTIPOV, B.A.; ZUYEV, V.Ye.; KOKHANENKO, P.N.; SONCHIK, V.K.; FEDYUSHIN, A.A.

Transparency of a horizontal atmospheric layer in the range from 0.7 to 14. Part 1: Equipment and measurement methods. Izv. vys.ucheb.zav.;fiz. no.2:105-110 '60. (MIRA 13:8)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652410017-4"

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s/139/60/000/03/011/045

**AUTHORS:** 

Antipov, B.A., Zuyev, V.Ye., Kokhanenko, P.N., Sonchik, V.K. and Fedyushin, A.A.

TITLE:

Transparency of the Horizontal Layer of the Atmosphere in the Range of 0.7-14  $\mu$ . Part II. Dependence of the Total Transparency of the Atmosphere in the Range 0.7-14  $\mu$  on the Thickness of the Precipitated Layer of Water

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1960, Nr 3, pp 72 - 75 (USSR)

ABSTRACT: The authors made an attempt to determine an empirical relation between the magnitude of the reduced signal V (magnitude of the signal multiplied by a factor

Li 2/Si:- Li being the distance between the emitter and the receiver, Si being the area of the emitter) and the air humidity which would show satisfactory agreement with experimental results obtained by the authors. As sources of infra-red radiation, four special emitters were used which were heated to 500 °C and placed at a distance of 1210, 3494, 6645 and 9855 m from the receiving equipment. The experimental set-up,

Card1/4

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Transparency of the Horizontal Layer of the Atmosphere in the Range of 0.7-14 µ. Part II. Dependence of the Total Transparency of the Atmosphere in the Range 0.7-14  $\mu$  on the Thickness of the Precipitated Layer of Water

the method of carrying out the experiments and the processing of the results were the same as those described in an earlier communication (same journal, No 2, pp 105-110). The air humidity and the intensity of the signals were determined simultaneously. The partial pressure of water vapours was determined directly and then the thickness of the precipitated water layer wL was calculated, where w - the thickness of the precipitated layer of water in mm for 1 km and L - the distance in km between the emitter and a receiver. For detecting the relation between the air humidity and the magnitude of the signal only those measurements were taken into consideration which were carried out in the absence of any visible clouding of the atmosphere (mist, haze, fog, rain). Of a total of 811 determinations only 140 complied with this condition. The experiments were carried out during various days in March, April,

Card2/4

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Transparency of the Horizontal Layer of the Kimosphere in the Range of 0.7-14 µ. Part II. Dependence of the Total Transparency of the Atmosphere in the Range 0.7-14  $\mu$  on the Thickness of the Precipitation Layer of Water

July, August, September, October and November, 1958 and encompassed a wide range of variation of air humidity; the value of w varied between 0.7 and 17 mm/km and the wL values varied between 0.8 and 167 mm. It was found that the magnitude of the reduced signal V is not a linear function of VL (see plot, Figure 1) but it appears that the dependence can be better expressed by a linear dependence of  $lg\ V$  on  $\sqrt{wL}$ . The following empirical relation was derived by the authors for the reduced signal V:

$$V = V_0 e^{-b \sqrt{wL}}$$
 (2)

whereby  $V_0$  is the magnitude of the reduced signal in the absence of water vapours in the air, b is a constant equalling in the given case 0.2319. Curves calculated according to this equation are in good

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Antipov, B.A., Zuyev, V.Ye., Kokhanenko, P.N.,

Sonchik, V.K. and Fedyushin, A.A. AUTHORS:

TITLE:

Methods and certain results of studies of horizontal

transparency of the atmosphere to long-wave

Referativnyy zhurnal, Geofizika, no. 3, 1962, 31, radiation PERIODICAL:

abstract CB232. (In the symposium Aktinometriya i atmosfern. optika (Actinometry and atmospheric optics),

Leningrad, Gidrometeoizdat, 1961, 248 - 251)

The effect of meteorological conditions on the transparency of the atmosphere to long-wave radiation (0.7 - 14 p) over distances of 1.2, 5.5, 6.6 and 9.9 km was studied. Flat TEXT: metallic radiators with electrical heating were used as sources of radiation. A vacuum thermo-element with a vibro-converter and a measuring amplifier 20AM (28IN) served as a receiver. The receiver was placed in the focus of a parabolic mirror. Simultaneously with the measurements at all four points the meteorological conditions were also measured, viz. temperature d Card 1/2

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Methods and certain results ....

the air, humidity, wind and intensity of precipitate. The results of the measurements were presented in the form of radiation curves vs. distance. The seasonal relation with maximu: attenuation which coincides with the period of highest absolute humidity was found. A sharp attenuation of radiation was observed up to 5.5 km during the winter period, then it decreased, while during the summer period a sharp attenuation was observed up to 6.5 km. Abstracter's note: Complete translation.

Card 2/2

CIA-RDP86-00513R001652410017-4" APPROVED FOR RELEASE: 08/25/2000

5/139/61/000/001/001/018 E032/414

**AUTHORS:** 

Antipov, B.A., Zuyev, V.Ye., Kokhanenko, P.N.,

Sonchik, V.K. and Fedyushin, A.A.

TITLE:

Transparency of the Horizontal Layer of the Atmosphere in the Region 0.7 to  $14\,\mu$ . III. Dependence of the Total Transmission of the Atmosphere in the Region 0.7 to 14 µ on the Thickness of the Precipitated Layer

of Water

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika,

1961, No.1, pp.17-19

TEXT: In previous papers (Refs.1 and 2) the present authors described an apparatus and a method of measurement of the transparency of the atmospheric layer next to the earth surface in the region 0.7 to 14 µ and for distances between 1.21 and 9.86 km. The experimental material obtained was also reported. present paper additional data recently obtained are reported. As an approximation, the magnitude of the transmitted signal was described in Ref.2 by the exponential law

 $v = v_0 e^{-a \sqrt{vL}}$ 

(1)

Card 1/4

(2) 100 (100 cm ) 100 cm )

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Transparency of the Horizontal ... E032/E414

where w is the thickness of the precipitated water in mm per km, L is the distance traversed by the radiation in km, a is a constant and  $v_0$  is the intensity in the absence of the absorbing medium. Eq.(1) was obtained empirically and gave a sufficiently good representation of the experimental results. This expression accounts for the absorption of the infrared radiation by water vapour only and does not take into account absorption by carbon dioxide or effects due to atmospheric turbidity. The criterion for the applicability of Eq.(1) is the linear dependence between lg v and a  $\sqrt[4]{wL}$ . The new data now reported are also well represented by Eq.(1) right up to wL = 90 mm. However, for greater values of wL, the dependence between lg v and  $\sqrt[4]{wL}$  is no longer linear and in order to describe all the experimental data the following formula was employed

$$v = \frac{c}{1 + wL} + k \tag{2}$$

where c and k are constants. This expression is also purely empirical and the criterion for its applicability is a linear Card  $2/\frac{1}{2}$ 

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Transparency of the Horizontal ... E032/E41

relation between v and  $(1+wL)^{-1}$ . Fig.2 shows the dependence of v on wL. During the measurements the sensitivity of the receiving apparatus was controlled by a 6 watt lamp at a distance of 5 m from the detector. It was found that the signal due to the lamp was very dependent on the humidity of the air. It is therefore pointed out that the use of a standard source at a short distance from the receiver may introduce errors unless corrections for the humidity are introduced. There are 2 figures and 2 Soviet references.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom

gosuniversitete imeni V.V.Kuybysheva

(Siberian Physicotechnical Institute of the Tomsk

State University imeni V.V.Kuybyshev)

SUBMITTED: February 13, 1960

Card 3/4

Use of gluing methors in the manufacture of women's clothing.

Shvein.prom. no.2:11-13 Mr-Ap '60. (MIRA 13:11)

(Riga--Dressmaking) (Gluing)

SONDAK, M.

Recurrence and exacerbation of tuberculosis in adults according to data of our dispensary in 1962. Sveik. apsaug. 9 no.3:18-20 Mr\*64

1. Respublikinis tuberkuliozes dispanseris.



SONDAK, M.

Relapse and exacerbation of tuberculosis in adults according to data of our clinic in 1962. Svetk. Apsaug. no.3:18-20 '64.

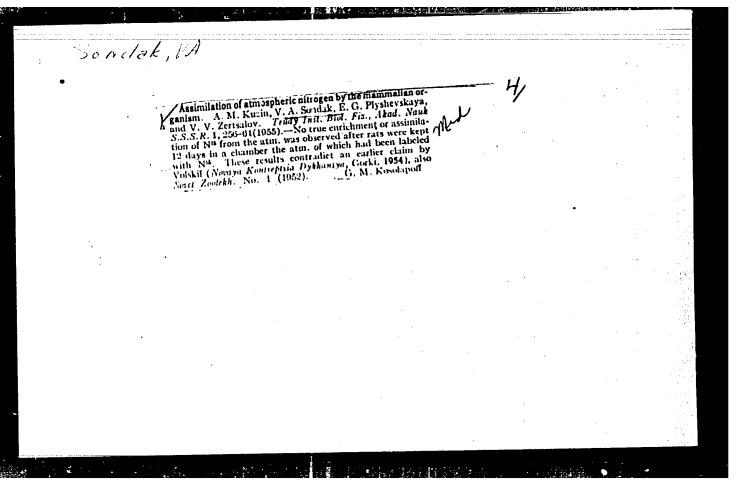
1. Lietuvos respublikinis tuberkuloses dispanseris.

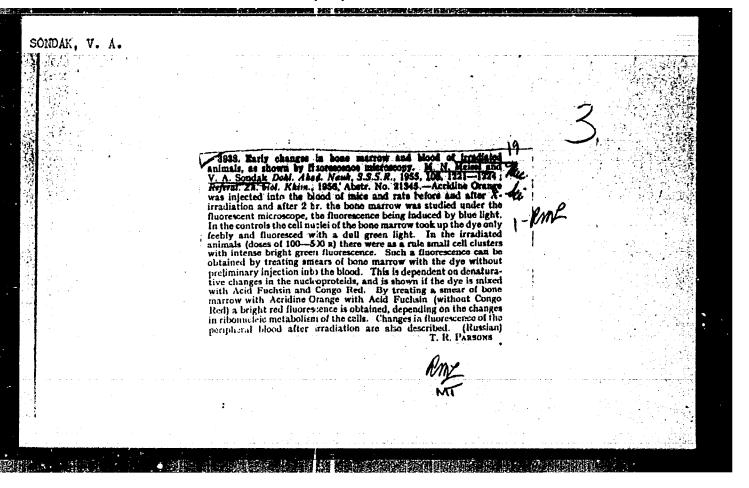
PAYLOUSETY, E. N.; SOUDAK, Y. A.

Nometoda

Difference between trichiuroidea in man and in swine. Paraz. sbor. no.13, 1951.

Monthly List of Preston Accessions, Library of Congress, April 1952. UNCLASSIFIED.





MARKA, L. H

WTR/Human and Animal Physiology - The Effect of Physical

V-12

Factors.

Abs Jour

: Ref Zhur - Pioi., No 4, 1958, 18793

Author

: V.A. Sondak

Inst

Title

: Damage Done to an Organism by the Injection of Small Doses

of Radioactive Phosphorus.

Orig Pub

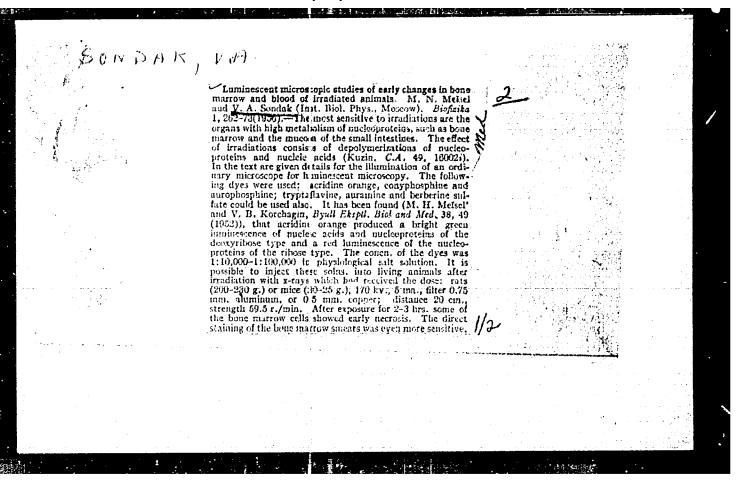
: Biofizika, 1956, 1, No 3, 211-220

Abstract

: A Study was made of the distribution, excretion and toxicity of indicator doses of P32 (a dose of 0.005 to 0.007 microcuries per gram of body weight for rats and 0.002 to ().(9)3 microcuries per gram for guinea pigs). Upon intramuscular injection of the preparation into rats there developed specific changes in the blood and histological changes in kidneys, liver and spleen. Observations were

conducted over a period of 150 days.

Card 1/1



Meisel, M.N. Sendak, V.A.

Using the mixture of acridine orange with an equal amount of Congo red and very small amount of fuschsin, it was possible to detect necrosis after 1/h hour irradiation. The number of necrotic spots increased with the dose; 100 r./my of hone marrow gave 128,500 r. 218, and 1600 r. 242 spots. The acridine orange and be replaced by coriphosphine. The auranine gave less satisfactory regults. The necrotic spots are seen as bright green fluorescent spots. With the mixt, of acridine orange, and fuchsin the bright ted cytosphaem of the necrotic cells could be seen. The no. of red apots gradually increased and reached the max, in 0-12 has, and after that decreased. The same method of staining can be used for the blood smears. The definite changes were detected after total irradiation of the animals with 500 (nea) r. in 10-1, hrs., with max, changes in 18-20 mis The returnlocyts almost completely disappeared, the number of lemosytes decreased, their nuclei were stained greenish-yellow, yellow, and orange. After intensive probabily as a result of changes in hemoglobin. The plasma itself acquired a dult greenish luminessence. In the later stages it was possible to see also the invaling bacteria.

A. V. Tolsteouhoy

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"Effect of Vitamin P (Tanain From Tea Leaves) on Capillary
Permeability," by V. A. Sondak, and A. I. Ruderman, Institute
of Biological Physics, Academy of Sciences USSR, Moscow;
Department of Roentgenotherapy, Central Institute of Roentgenology and Radiology, imeni V. M. Molotov, Moscow, Biofizika,
Vol 1, No 4, 1956, pp 399-400

Cancer patients treated with X-rays were given therapeutic doses of vitamin P (tea tannin) to strengthen the capillary walls. Within 14-30 days normal vascular permeability was restored. Cessation of vitamin P administration resulted in a recurrence of pathologic vascular permeability, but a second course of tannin restored vascular permeability to normal. (U)