

SOV/91-59-10-2/29

Some Problems of Energetics Automation

concurrent operation of thermo- and hydro-stations lying hundreds and thousands kilometers away one from another in the Soviet Union. Technical-economical expedience should serve as a criterion for automation volume, centralization of control and distribution of personnel. In the author's opinion, at the most powerful stations, the duty at the control board will be gradually substituted by the duty at home, while at the small and medium power stations it will be altogether eliminated. The personnel will come to the station only for inspection of installations, their testing and, if needed, for their repair. Considering the question of labor efficiency increase, it has to be noted that the total personnel engaged in operating the power system, giving 80% of electric energy supply throughout the Soviet Union, is only about 200,000. On the other hand, there are in the USSR over 100,000 small electric stations, each with an output of under 5000 kw, which supply about 10% of electric energy and engage about 800,000 persons. The author draws the fol-

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Following conclusion: Among many branches of the national economy, energetics should be especially in the forefront of realizing complex automation. It contains one of the fundamental advantages of automation - the possibility of bringing about radical changes in the nature of labor and in the forms of human activity. There is 1 table.

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AUTHOR: Chuprakov, N. M.; Dorovoy, A. A.; Postnikov, N. A.; Malychev, A. A.;  
Magidson, E. M.; Sin'chugov, F. I.; Zeylidzon, Ye. D.; Barchaninov, G. S.;  
Yermolenko, V. M.; Vasil'yev, A. A.; Sokolov, N. I.; Ul'yanov, A. S.;  
Fedorov, A. M.; Sarkisov, M. A.; Rokotyan, S. S.; Azar'yev, D. I.; Arson,  
G. S.; Dubinskiy, L. A.; Zhulin, I. V.; Kolpakova, A. I.; Antoshin, N. N.  
Krikunchik, A. D.; Kuchkin, M. D.; Proobrazhenskiy, N. Ye.; Reut, M. A.;  
Kheyfits, M. E.; Sharov, A. N.; Yakub, Yu. A.; Gorbunov, N. I.; Shurmukhin,  
V. A.; Deschinskiy, A. A.

ORG: none

TITLE: Boris Sergeyovich Uspenskiy (on his 60th birthday)

SCURCE: Elektricheskiye stantsii, no. 8, 1966, 95-96

TOPIC TAGS: hydroelectric power plant, electric engineering personnel.

SUB CODE: 10

ABSTRACT: B. S. Uspenskiy was born in June 1906. He graduated from  
the State Electric Machine Building Institute in 1928 as an electric  
installation engineer. He worked in the State Electro-Technical Trust  
for four years, then in the All-Union ElectroTechnical Union, where he  
planned power construction units. Plans which he made up at that time  
for the electrical portion of electrical stations and sub-stations are  
still being used. He was involved in planning and installation of the  
electrical portion of hydro-electric power stations and powerful pumping  
stations in the Moscow-Volga Canal. During the war, he was in charge in  
installation of the Kraannogorskaya Heat and Electric Power Station, the  
planning of the Urals Hydro-Electric Power Station and other projects. He

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ATABEKOV, G.I.; BELOUSOV, M.M.; BULGAKOV, K.V.; VASIL'YEV, D.V.;  
YEGIZAROV, I.V.; ZAKHAROV, S.N.; ZEYLIDZON, Ya.D.; KOSTENKO, M.P.;  
MANOYLOV, V.Ye.; NARNEVSKIY, B.I.; RYZHOV, P.I.; SOLOV'YEV, I.I.;  
SYROMYATNIKOV, I.A.; FABRIKANT, V.L.; CHERNIN, A.B.; CHERNOBROVOV,  
N.V.; FEDOSEYEV, A.M.; SHABADASH, B.I.; SHCHEDRIN, N.N.;  
FATEYEV, A.V.

Viktor Ivanovich Ivanov, 1900-1964; an obituary. Elektrichestvo  
no.11:89 N '64. (MIRA 18:2)

ZEYLIDZON, Ye.D., inzh.

Change in the potential at the terminals of asynchronous motors during  
the disruption of one of the phases of the feeding network. Prom. energ.  
20 no.5:47-51 My '65. (MIRA 18:7)

ZEYLIDZON, Ye.D., inzh.

Features of using automatic reclosing with retention of synchronism.  
Elek. sta 36 no.4:68-71 Ap '65. (MIRA 18:6)

ZEYLIDZON, Ye.D.

From the editor. Elektrichestvo no.11:85-86 N '63.  
(MIRA 16:11)

MOSKALEV, A.G., kand.tekhn.nauk, dotsent; ZEYLIDZON, Ye.D., inzh.;  
KUCHKIN, M.D., inzh.

Automatic control of the performance of large consolidated electric  
power systems according to their frequency and real power.  
Elektrichestvo no.9:81-87 S '63. (MIRA 16:10)



SYROMYATNIKOV, I.A., prof.; ROZANOV, M.N., kand.tekhn.nauk; KEDRIN, V.M.,  
inzh.; ZEYLIDZON, Ye.D., inzh.

Concerning N.S.Shabalin's article "Engineering and economic  
efficiency of overall automation and remote control in electric  
power distribution networks." Elek. sta. 34 no.9:87-89  
S '63. (MIRA 16:10)

LINDORF, L.S.; FUFURIN, P.N.; ULITSKIY, M.S.; USTINOV, P.I.;  
ZEYLIDZON, Ye.D.; MININ, G.P.; KOTS, A.Ya.; KHAVIN, N.Z.;  
MURAVLEVA, N.V.; LIBERMAN, A.Ya.; BARANOV, B.M.; ZVENIGORODSKIY,  
I.S.; IVANOV, V.S.; IOFFE, F.Ye.; BURLAKOV, B.M.; MIRENBURG,  
L.A.; FAYERMAN, A.L., red.; BORUNOV, N.I., tekhn. red.

[Study manual on the technical operation of electric networks  
and power plants; electrical section of electric power plants  
and electric power distribution networks] Posobie dlia izuche-  
niia pravil tekhnicheskoi ekspluatatsii elektricheskikh stantsii  
i setei; elektricheskaiia chast' elektrostantsii i elektricheskie  
seti. Moskva, Gosenergoizdat, 1962. 558 p. (MIRA 15:8)

(Electric power plants--Handbooks, manuals, etc.)  
(Electric power distribution--Handbooks, manuals, etc.)

ZEYLIDZON, Ye.D., inzh.

Protection of electric motors against operation on two phases.  
Energetik 10 no.2:31-35 F '62. (MIRA 15:2)  
(Electric motors)

SYROMYATNIKOV, I.A., prof., doktor tekhn.nauk; ZEYLIDZON, Ye.D., inzh.

Protection of electric motors from short-circuits to ground.  
Prom.energ. 17 no.7:30-31 J1 '62. (MIRA 15:7)  
(Electric motors) (Electric protection)

ZEYLIDZON, Ye.D., inzh.

For an objective approach to gas-type protection of electric trans-  
formers. Elek. sta. 32 no.7:68-71 J1 '61. (MIRA 14:10)  
(Electric transformers) (Electric protection)

S/196/61/000/012/016/029  
E194/E155


AUTHOR: Zeylidzon, Ye.D.

TITLE: In favour of an objective approach to gas-pressure protection of transformers

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika, no.12, 1961, 13, abstract 12E 83. (Elektr. stantsii, no.7, 1961, 68-71)

TEXT: Doubt is cast on the opinion which has been expressed by certain authors that gas-pressure relays should, in general, be arranged to disconnect the transformers whether other types of protection are used or not. The gas-pressure protection should be arranged to give a warning signal in all cases when there is more than usual probability of spurious operation of the gas-pressure relay, particularly in areas of high seismic activity, or when the transformers are subject to intense vibration, or in transformers with forced cooling. Such warnings are also needed when the gas pressure protection is insufficiently reliable, particularly in transformers operating

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In favour of an objective approach... S/196/61/000/012/016/029  
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alone without standby capacity. For transformers that operate alone or which are particularly important, and transformers particularly subject to damage, including those with on-load tap changing, the gas-pressure relay should give a signal and should disconnect in the presence of differential protection. Here it is necessary to take measures to prevent spurious operation of the disconnecting devices. Their use to isolate the transformers when the oil level drops too low is not rational, particularly at unattended sub-stations. Relays to check the oil level should be installed in the conservators of large new transformers. There is a need to improve gas pressure protection and to study its operating conditions. In many cases, for instance in transformers without current transformers, gas-pressure relays will continue to be the only main protection. If there are no cases of spurious disconnection of transformers with gas-pressure protection, the equipment should not be re-arranged simply to give a signal.

[Abstractor's note: Complete translation.]

Card 2/2

UTKIN, V.I., inzh.; ZEYLIDZON, Ye.D., inzh.; CHEPELE, Yu. M., inzh.;  
RASHKOVICH, I.M., inzh.

Replies to B. A. Sarkisian's article "Use of two-polar starters  
for controlling three-phase low-voltage electric motors." Elek.  
sta. 31 no.12:84-85 D '60. (MIRAL4'5)  
(Electric motors--Starting devices)



ZEYLIDZON, Ye. D., inzh.

Relay protection and automatic control in the electrification of  
the nation. Elek. sta. 31 no. 12:17-19 D '60. (MIRA 14:5)

(Electric protection)

(Electrification)

(Automatic control)

GOMOLA, Frantisek, inzh. [Homola, František]; RATAY, Milosh, inzh.  
[Rataj, Miloš]; SECHIPANOVA, T.N. [translator]; ZEYLIDZON, Ye.D.,  
red.; LARIONOV, G.Ye., tekhn. red.

[Development of electrification in the Czechoslovakian Socialist  
Republic] Razvitie elektrifikatsii v Chekhoslovatskoi Sotsiali-  
cheskoi Respublike. Moskva, Gos. energ. izd-vo, 1961. 80 p.

(MIRA 14:6)

(Czechoslovakia—Electrification)

ZEYLIDZON, Ye.D.

Protection from short-circuits to ground of 6 kv. networks with insulated neutral line. Energetik 13 no.3:41-42 Mr '65. (MIRA 18:7)

ZEYLIDZON, Ye.D.

Connection of hydrogenerators in a power system. Energetik  
13 no.5:40 My '65. (MIRA 18:8)

LIVSHITS, D.S.; GANNEL', V.Ya.; NAYFEL'D, M.R.; ZEYLIDZON, Ye.D.

Power supply of control networks in systems with grounded neutral line. Prom. energ. 20 no.9:12-18 S '65. (MIRA 18:9)

1. Gosudarstvennyy institut po proyektirovaniyu elektrooborudovaniya dlya tyazheloy promyshlennosti (for Livshits). 2. Proyektno-konstruktor-skiy institut Pishchepromavtomatika (for Gannel'). 3. Moskovskoye eksperimental'noye otdeleniye Gosudarstvennogo proyektного instituta tyazheloy elektricheskoy promyshlennosti (for Nayfel'd). 4. Gosudarstvennyy proyektnyy institut po energetike i elektrifikatsii SSSR (for Zeylidzon).

ZEYLIGER, A.N., inzh.

Prospects for the development of the Central Siberian  
Unified Electric Power System. Elek.sta. 31 no.5:  
2-6 My '60. (MIRA 13:8)  
(Siberia--Electric power)

KONSTANTINOV, B.A. dotsent, kand.tekhn.nauk; AYZENBERG, B.L., dotsent, kand.tekhn.nauk; KLEBANOV, L.D., kand.tekhn.nauk; NIKOGOSOV, S.N., dotsent, kand.tekhn.nauk; BARDIN, M.I., inzh.; KOROLEV, V.A., inzh.; PRINTSEV, A.A., inzh.; SOKOLOVA, K.I., inzh.; SHULYAT'YEVA, G.N., inzh.; ROZENBERG, B.I., prof., doktor tekhn.nauk [deceased]; BYKOV, N.G., inzh.; ZEYLIGER, A.N., inzh.; ZABRODINA, A.A., tekhn.red.

[Collected information data regarding the power factor ( $\cos \varphi$ )]  
Sbornik informatsionnykh materialov po koeffitsientu moshchnosti ( $\cos \varphi$ ). Pod red. B.A.Konstantinova. Moskva, Gos.energ.izd-vo, 1959. 141 p. (MIRA 12:12)

1. Leningrad. Leningradskiy inzhenerno-ekonomicheskii institut.
2. Leningradskiy inzhenerno-ekonomicheskii institut (for Konstantinov, Ayzenberg, Klebanov, Nikogosov).
3. Energosbyt Lenenergo (for Bardin, Korolev, Printsev, Sokolova, Shulyat'yeva).
4. Leningradskiy politekhnicheskii institut (for Rozenberg).
5. Leningradskoye ot-deleniye instituta "Teploelektroproyekt" (for Bykov, Zeyliger).  
(Electric engineering)

ZHYLIGER, A.N., inzh.; NOVGORODTSEV, B.P., inzh.

Using 220kv lines with split conductors. Elektrichestvo no.2:9-12  
F '58. (MIRA 11:2)

1. Leningradskoye otdeleniye Teploelektroproyekta.  
(Electric lines)



BAATCHAN, L.O., ZEFILIGER, A.V.

Long-term Plan for Development of a Unified Power System for Siberia for the Period 1965-1980.

Report to be submitted for the Conference on Electrification of Siberia, Development and unification of its power systems, 7-9Dec61.

ZEYLIGER, D. N.

Iz kursa lineyhatoy geometrii. Kazan', Izv. Fiz.-matem. o-va (2) 23 (1923), 130-156  
osnovnyye formuly kompleksnoy geometrii pryamoy III Kazan' Izv. fiz.-matem. O-va (3),  
3 (1928), 56-92 kompleksnaya lineyhataya geometriya. L.-M., Gtti (1934), 1-196

SO: Mathematics in the USSR, 1917-1947  
edited by Kurosh, A. G.  
Markushevich, Al L.  
Rashevskiy, P. K.  
Moscow-Leningrad, 1948

USSR / Farm Animals. General Problems.

Q

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 21199

Author : Zhuravlev, Ye. M.; Zeyliger, D. O.; Mazhenko, I. V.;  
Ivanovskiy, V. M.

Inst : Penza Institute of Agriculture

Title : Changes of the Chemical Composition of Red Clover  
Leaves When Dried

Orig Pub : Sb. Tr. Penzenskogo s.-x. in-ta, 1958, Vyp. 2,  
425-437

Abstract : The entire clover plant of the Penzenskiy 1 variety  
and lucerne plant of the improved Bol'shev'yasskaya  
variety were dried in a laboratory with dissipated  
light. The leaves of the 4th and 5th layers were  
analyzed. The leaves were analyzed 24, 48 and 96  
hours after drying. To the extent to which the plants

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USSR / Farm Animals. General Problems.

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Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 21199

become dehydrated, osmic pressure of cellular juice increases, as well as transparency of protoplasm, the original structure of the protein complex becomes disrupted, proteins are subjected to denaturation, the stability of the pigment-protein-lipid complex of plastids becomes impaired, and as a result losses of nutritious substances increase. -- F. M. Kazantsev

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ZEYLIGER, D. O.

U S S R .

Effect of inorganic salts on the surface tension at the boundary water-mercury. D. O. Zeyliger (Agr. Inst., Penza). *Kolloid. Zhur.* 16: 430-41(1954).—The interfacial tension  $\gamma$  (from the max. drop pressure) between Hg and 1% aq. sol. at 20° without or with 0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000 mg/l. of various inorganic salts was measured. The results show that the interfacial tension is lowered by the presence of inorganic salts, and the effect is more pronounced with increasing concentration of the salts. The order of decreasing interfacial tension is:  $\text{Na}_2\text{SO}_4 > \text{Na}_2\text{CO}_3 > \text{Na}_2\text{S}_2\text{O}_8 > \text{Na}_2\text{S}_2\text{O}_5 > \text{Na}_2\text{C}_2\text{O}_4 > \text{Na}_2\text{C}_2\text{O}_3 > \text{Na}_2\text{C}_2\text{O}_2 > \text{Na}_2\text{C}_2\text{O}_1 > \text{Na}_2\text{C}_2\text{O}_0$ .

H  
Zeyliger

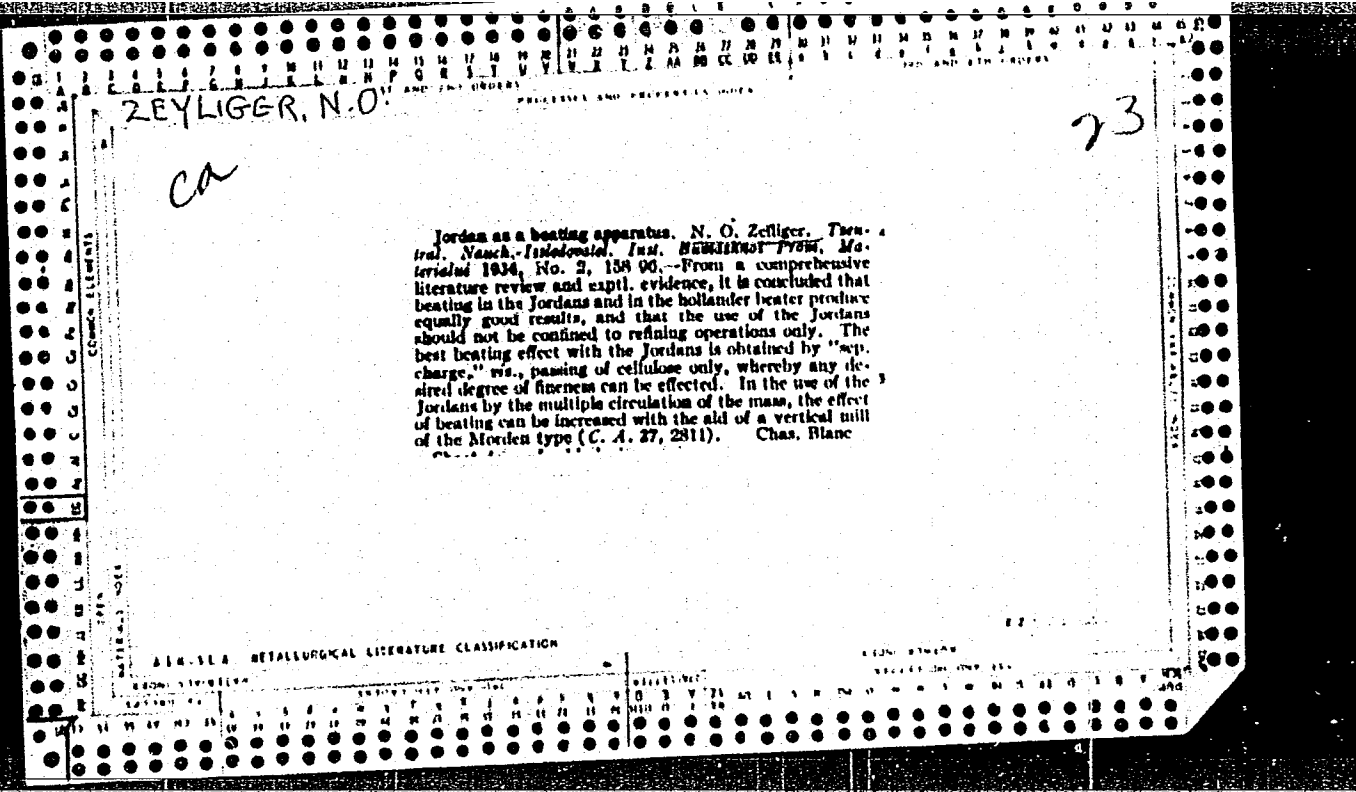
ZEYLIGER, D.O.

Effect of the storage conditions of spring wheat seeds on their  
colloidal and chemical properties. Izv. vys. ucheb. zav.; pishch.  
tekh. no.2:17-21 '63. (MIRA 16:5)

1. Penzenskiy sel'skokhozyaystvennyy institut, kafedra khinii.  
(Wheat Storage)

ZEYLIGER, D. O.

Moving Liesegang rings. D. O. Zeyliger (Ag. Inv., Penza). *Kolloid Zentr.* 17, 347-52 (1955). When a salt X is dissolved in agar and the agar column is covered with a thin layer of Y such that X is pptd. by small amts. of Y but is in an excess of Y, the ppt. moves down the agar column as one or several rings. The phenomenon is described in det. for Cu, Zn, Pb, and Sn salts (as X) with NaOH (as Y), salts of Cu, Ni, and Zn (as X) with  $NH_4OH$  (as Y), salts of Bi and Pb (as X) with  $KI$  (as Y), and salts of Ni, Cu, Ag, and Pb (as X) with  $NaCN$  (as Y); the rings depend also on the concentration of Y. The rate of movement of the main ring for  $CuSO_4 + NaOH$ ,  $HgCl_2 + KI$ ,  $Al(SO_4)_3 + NaOH$ , and  $NiCl_2 + NaCN$  can be expressed by  $x = Kt^{\pi}$ ;  $x$  is distance covered in time  $t$  and  $K$  and  $\pi$  are constts.  $K$  is greater as the concn. of Y increases and the concn. of X and of the agar decrease. J. I. B.





ZEYLIGER, N.O.  
ex

23

Production of paper by beating in Jordans. N. O. Zelliger. *Technol. Nachr.-Isidoroedel. Inst. Bismarck-Hochsch. Material* 1935, No. 1, 224-40; cf. C. A. 29, 1631<sup>o</sup>.—Expts. in the production of paper by use of Jordans exclusively show the following advantages as compared with the beating in Hollander beater. The beating is continuous, giving a more uniform product. The regulation is very simple and is independent of the skill of the operator. There is considerable economy in the elec. energy consumption, in the no. of operators and factory space and a marked improvement in the mech. properties of the resulting paper. Chas. Blanc

AS P. 35 A METALLURGICAL LITERATURE CLASSIFICATION

ZEYLIGER, N.O.

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Conical Jordan mill as a beating apparatus. N. P. Vakhodkin and N. O. Zeyliger. *Tsentral. Nauch.-Issledovatel. Inst. Bumash. Prom. Materialy* 1938, Nos. 30-7, 21-67; cf. *C. A.* 29, 1031<sup>1</sup>.—The previous expts. are extended to the beating of bleached sulfite pulp (12-14% freeness) in a modified Fulmer Jordan (diagrams are appended). For 1-5-ton batches the best results are reported by working at 3.75-4% pulp concn. (4.5-4.8% for the pulp contg. 30% kaolin on the wt. of dry pulp) and a 0.13-0.16-mm. clearance between the rotor and stator knives with a speed of 200 revolutions per min. By this method the degree of beating is increased in a single operation by about 20% freeness, requiring but 2 circulations to obtain a product with 45-55% freeness suitable for the production of good grade of writing and printing papers. In the retention of fillers and size and in the low consumption of elec. energy the beating in the Jordan is superior to that in the hullander beater. The tabulated exptl. data show that in their appearance, mechanical strength and other properties the resulting papers are comparable with the com. standard brands of writing and printing papers. Photomicrographs. Economic analysis of the pulp beating in the Jordan. L. G. Nemirovskii. *Ibid.* 68-69.—The subject is discussed from the tech. and economic viewpoints. Chas. Blanc

ASH. S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

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

BLAGODATNAYA, M.; ZEYLIGER, S.

Improve the wage system for checker-sorters in the textile industry. Sots. trud no.3:54-58 Mr '57. (Wages) MLRA 10:4)

AVDEYEV, A.V.; ZEYLİK, B.S.

Formation of the granite massifs of the Ora-Tau and Kyzyl-Tau  
in central Kazakhstan. Trudy VSEGEI 74:171-181 '62.

(MIRA 15:9)

(Kazakhstan--Granite)

ZEYLIK, B.S.; RADCHENKO, N.S.

Find of geyserites and travertines in Aktogay District (Central  
Kazakhstan). Zap. Vses. min. ob-va 93 no. 4:484-486 '64  
(MIRA 18:2)

VIN'KOVETSKIY, Ya. A.; ZEYLIK, B.S.; KISELEVA, D.F.

Origin of some island mountains in central Kazakhstan. Izv.  
Vses. geog. ob-va 96 no.6:515-517 N-O '64 (MIRA 18:1)

ZEYLIK, B.S.; VIN'KOVETSKIY, Yu.A.

Trends in prospecting for "blind" ore deposits and relations of  
intrusive igneous activity to volcanism in central Kazakhstan,  
Izv. AN Kazakh. SSR, Ser.geol. 22 no.2:70-75 Mr-Apr '65.

(MIRA 18:5)

1. Tsentral'no-Kazakhstanskoye geologicheskoye upravleniye,  
Karagarda.

ZHYLIK, B. S.

Petrology of old metamorphic formations in the Sredinnyy Range  
(Kamchatka). Zap. Vses. min. ob-va 89 no.1:111-114 '60.

(MIRA 13:10)

(Sredinnyy Range--Rocks, Crystalline and metamorphic)



ZEYLIK, S. M., Eng.

Chromium Plating

Tanks with limited ventilation for chromium plating bearing parts. Podshipnik No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.

ZEYLIK, S. M., Eng.

Bearings (Machinery)

Tanks with limited ventilation for chromium plating bearing parts. Podshipnik No. 1,  
1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

ZEYLIKMAN, I.A., inzhener.

New high-producing machine for bending VMS-22 pipe. Mekh.stroi.  
11 no.11:29-30 N '54. (MLRA 7:12)  
(Pipe bending)

ZEYLORMAN, Kh. N.

Estimating the dimensions of droplets. Rasch. rast. ot vred.  
i bol. 9 no.6:20-21 '64 (MIRA 1737)

1. Moldavskiy institut sadovodstva, vinogradarstva i vinodeliya.

*ZEYLKMAN, Kh. N.*

ZEYLKMAN, Kh. N.

[Experience in the renovation and repair of tractor parts in the Kishinev repair plants of the Ministry of Agriculture of the Moldavian S.S.R.] Opyt restavratsii i remonta traktornykh detalei na Kishinevskom remontnom zavode MSKH MSSR. Kishinev, Gos. izd-vo Moldavii, 1954. 53 p. (MLRA 10:4)  
(Moldavia--Tractors--Repairing)

ZEYLIKMAN, Kh.N., inzh.

Mist spraying in grape nurseries. Zashch. rast. ot vred. i bol.  
8 no.7:28-29 J1 '63. (MIRA 16:9)

1. Moldavskiy institut sadovodstva, vinogradarstva i vinodeliya,  
Kishinev.

*Специальность, Учен.*  
KULIKOVSKIY, S.A., inzhener; KALYUZHNYY, A.N., inzhener; BARQ, M.M., inzhener;  
ZHYLIKOVICH, B.Ya., inzhener.

Experience in the use of protective atmospheres. Stal' 17 no.3:740-744  
Ag '57. (MLRA 10:9)

1. Novomoskovskiy zhehtskatal'nyy zavod.  
(Steel--Heat treatment) (Protective atmospheres)

Зейликovich, B.Ya.

133-8-19/28

AUTHORS: Kulikovskiy, S.A., Kalyuzhnyy, A.N., Barg, M.M. and Zeylikovich, B.Ya., Engineers

TITLE: Experience in the application of a protective atmosphere. (Cpyt primeneniya zashchitnoy atmosfery).

PERIODICAL: "Stal'" (Steel), No.8, 1957, pp. 740-744 (USSR).

ABSTRACT: A description of equipment for annealing sheets in a protective atmosphere (muffle with a sand seal, covered by a refractory lined hood) is given (Fig.1). The protective atmosphere is obtained by combustion of producer gas (from anthracite) purified with monoethanolamine. After cooling to 25-30 C the combustion products are again purified from CO<sub>2</sub> with monoethanolamine and dried with alumosilicagel and silicagel. The installation for the generation of the protective atmosphere was designed by Stal'proyekt (Figs.2 and 4). Initial difficulties encountered and methods of their elimination are described. Changes of the main indices of the protective atmosphere in the course of a satisfactory annealing (without oxidation of edges) are shown in Fig.5. It is stated that the production of clean annealed sheets without traces of oxidation permitted either to avoid or to reduce considerably the subsequent pickling process (no data given).

Card 1/2



133-8-19/28

Experience in the application of a protective atmosphere.  
(Cont.)

There are 5 figures.

ASSOCIATION: Novomoskovsk. Sheet Rolling Works. (Novomoskovskiy  
Zhestekatal'nyy Zavod).

AVAILABLE: Library of Congress

Card 2/2

BARZAM, Anatoliy Bentsionovich; ZEYLI/DZON, Ye.D., retsenezent;  
SIROTINSKIY, Ye.L., retsenezent; SMORCHKOV, A.D., inzh., red.;  
LARIONOV, G.Ye., tekhn.red.

[Automatic control of power systems] Sistemnaia avtomatika.  
Moskva, Gos.energ.isd-vo, 1959. 255 p. (MIRA 12:4)  
(Automatic control) (Electric engineering)

ZEYLIDZON, Ye.D., inzh.

Studies and developments in automatic frequency control of  
unified power systems. Elektrichestvo no.1:29-33 Ja '59.  
(MIRA 12:5)

(Power engineering)

(Automatic control)

ZEYLIDZON, Ye.D., inzh.

One condition for the selection of protection for networks up to  
1,000 v. Prom.energ. 14 no.3:13-15 Mr '59. (MIRA 12:4)  
(Electric networks)

ZYLIDZON, Ye.D., inzh.

Possibility for improving the efficiency of a dispatcher's remote control. Elek.sta. 30 no.1:76-78 Ja '59. (MIRA 12:3)  
(Power engineering) (Remote control)

ZEYLIK, B.S.

Manifestation of recent tectonics in various regions of central Kamchatka. Sov.geol. 4 no.11:148-150 N '61. (MIRA 14:11)

1. Leningradskiy gornyy institut.  
(Kamchatka—Geology, Structural)

ZELIKMAN, Kh.N.

"Zaria" blower-type mist sprayer. Zashch.rast.c. vred.i bol. 7  
no.5:21-23 My '62. (MIRA 15:11)

1. Moldavskiy institut sadovodstva, vinogradarstva i vinodeliya.  
(Spraying and dusting equipment)

LUKASHEVICH, P.A.; ZEYLKMAN, Kh.N.; GLUSHKO, K.B.; GUREONOV, E., red.;  
GORYACHENKO, F., tekhn. red.

[New machines for fruit culture and viticulture] Novye mashiny  
dlia sadovodstva i vinogradarstva. Kishinev, Izd-vo sel'khoz.  
lit-ry MSKh MSSR, 1962. 145 p. (MIRA 15:6)  
(Moldavia--Fruit culture) (Moldavia--Viticulture)



ZEYLINGER, A.S.; SEREDKIN, Ye.P.; AVTSIN, I.Ye., red.

[Units for the separation of coke-oven gas by the deep  
freezing method] Agregaty razdeleniia koksovogo gaza me-  
todom glubokogo okhlazhdeniia. Moskva, Khimiia, 1964.  
113 p. (MIRA 17:10)

ZEYLINGER, D.O.

Effect of inorganic salts on the surface tension of the water-mercury boundary. Koll.zhur. 16 no.6:439-441 N-D '54. (MLRA 7:12)

1. Penzenskiy sel'skokhozyaystvennyy institut, Kafedra khimii.  
(Salts) (Mercury) (Surface tension)

ZEYLINGER, F.A., inzh. (g.Lugansk); ITENBERG, I.D., inzh. (g.Lugansk)

Remote control of compressor plants. Ugol' 35 no.1:23-25  
Ja '60. (Compressors) (Remote control) (MIRA 13:5)

ASIAL

USSR/Medicine - Toxicology Cholinergic Agents

Mar/Apr 53

"Application of Drugs Which Affect the Chemical Transmission of Nerve Impulses in the Therapy of Intoxications," N. Ya. Mikhailov

Farm i Toks, Vol 16, No 2, pp 61-62

The author and his collaborators (Usanelya, Kapoport, Savinskiy, Kozmal, Bozhkova, Savateyev) found that pentapren and the USSR cholinergic drugs diaphacin and gangleron readily eliminate bronchial spasms induced in curarized cats by intravenous injection of proserine, and that they also prevent nicotine spasms in rabbits and mice. They established that the best antispasmodic effect is produced by pangeleron in combination with benzimidazole, the latter presumably having a sedative effect. They also found that reversible disturbances of the nervous system produced by pentapren or atropine do not develop upon preliminary administration of proserine.

PA 251727

USSR/Pharmacology

FD-2428

Card 1/1      Pub. 17-11/21

Author      : Zeymal', E. V.

Title      : ~~Prevention of arecoline and nicotine spasms in rabbits with cholinolytic substances.~~  
Prevention of arecoline and nicotine spasms in rabbits with cholinolytic substances.

Periodical : Byul. eksp. biol. i med. 39, 42-45, Jan 1955

Abstract   : The following antispasmodics were tested on rabbits by intramuscular injection shortly after intravenous injection of arecoline or nicotine respectively: scopolamine, atropine, and the new substances diphacil, pentaphen, tiphen, diphazine, and arpenal. Also studied were the iodomethylates of pentaphen and of diphazine. Arecoline spasms were prevented by atropine, scopolamine, and diphazine, nicotine spasms by arpenal and tiphen. Author concludes that the cholinoreceptive structures of the central nervous system possess the properties of nicotine sensitive as well as muscarine sensitive cholinoreactive systems. The tables also show that conversion of the tertiary into the quaternary nitrogen in the iodomethylation of diphazine and pentaphen weakens the antispasmodic properties. 8 references, 3 USSR, 3 since 1940. 2 tables.

Institution: Pudozhskiy Rayon Hospital, Pudozh Karelo-Finnish SSR

Submitted   : May 12, 1954

ABRAMOVA, Zh.I., kand. med. nauk; ANICHKOV, S.V., prof.; BELEN'KIY, M.L.,  
prof.; VAL'DMAN, A.V., doktor med. nauk; VEDENEYEVA, Z.I., kand.  
med. nauk; VINOGRADOV, V.M., kand. med. nauk; GERSHANOVICH, M.L.,  
kand. med. nauk; GINETSKIN, A.G., prof.; GOROVITSKIY, S.Ye.,  
prof.; GREBENKINA, M.A., dotsent; GREKH, I.F., dots.; DENISENKO,  
P.P., kand. med. nauk; D'YACHENKO, P.K., kand. med. nauk; ZHESYANIKOV,  
V.D., kand. med. nauk; ZAUGOL'NIKOV, S.D., prof.; ZEYMAL', E.V., kand.  
med. nauk; ISKAREV, N.A., kand. med. nauk; KARASIK, V.N., prof.;  
KIVMAN, G.Ya., kand. med. nauk; KOZLOV, O.D., kand. med. nauk; KROTOV,  
A.I., doktor veter. nauk; KUDRIN, A.N., doktor med. nauk; LAZAREV, N.V.,  
prof.; LAPIN, I.P., kand. med. nauk; MEL'NIKOVA, V.F., prof.;  
MESHCHERSKAYA, K.A., prof.; MIKHEL'SON, M.Ya., prof.; MOSHKOVSKIY,  
Sh.D., prof.; PADEYSKAYA, Ye.N., kand. med. nauk; PARIBOK, V.P., prof.;  
PERSHIN, G.N., prof.; PLANEL'YES, Kh.Kh., prof.; PONOMAREV, G.A.,  
prof.; POSKALENKO, A.N., kand. med. nauk; MUKHIN, Ye.A., dots.;  
ROZOVSKAYA, Ye.S., dots.; RYBOLOVLEV, R.S., starshiy nauchnyy sotr.;  
SALYAMON, L.S., kand. med. nauk; SAFRAZBEKYAN, R.R., kand. biol. nauk;  
TIUNOV, L.A., kand. med. nauk; TOMILINA, T.N., dots.; FELISTOVICH,  
G.I., kand. med. nauk; FRUYENTOV, N.K., kand. med. nauk; KIAUNINA,  
R.A., kand. med. nauk; TSYGANOV, S.V., prof.[deceased]; CHERKES, A.I.,  
prof.;

(Continued on next card)

ABRAMOVA, Zh.I.---(continued) Card 2.

CHERNOV, V.A., doktor med. nauk; SHADURSKIY, K.S., prof.;  
YAKOVLEV, V.Ya., doktor khim. nauk; MASHKOVSKIY, M.D., red.;  
NIKOLAYEVA, M.M., red.; RULEVA, M.S., tekhn. red.; CHUNAYEVA,  
Z.V., tekhn. red.

[Manual on pharmacology] Rukovodstvo po farmakologii. Leningrad,  
Medgiz. Vol.2. 1961. 503 p. (MIRA 15:1)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for  
Anichkov, Karasik, Cherkes). 2. Chlen-korrespondent Akademii medi-  
tsinskikh nauk SSSR (for Belen'kiy, Ginetsinskiy, Moshkovskiy,  
Planel'yes).

(PHARMACOLOGY)

ZEYMAL, E.V., MIKHELSON, M.YA., FRUYENTOV, N.K.

Proceedings of the section of the physiological activity of organophosphorus compounds.

Khimiya i Primeneniye Fosfororganicheskikh Soyedineniy (Chemistry and application of organophosphorus compounds) A. YE. AREUZOV, Ed.  
Publ. by Kazan Affil. Acad. Sci. USSR, Moscow 1962, 632 pp.

Collection of complete papers presented at the 1959 Kazan Conference on Chemistry of Organophosphorus Compounds.



ZEMAL', E. V., Cand Med Sci -- (diss) "Significance of the <sup>conversion</sup> ~~transfer~~ of  
ternary nitrogen into quaternary ~~one~~ for the central and peripheral  
action of cholinergic substances." Len, 1958. 18 pp (1st Len Med  
Inst im I. P. Pavlov), 200 copies (KL, 17-58, 112)

-84-

ZEYMAL', E.V.

Characteristics of central choline receptors stimulated by  
nicotine. Dokl. AN SSSR 157 no.1:230-232 JI '64  
(MIRA 17:8)

1. Institut evolutsiionnoy fiziologii im. I.M. Sechenova AN  
SSSR. Predstavleno akademikom V.N. Chernigovskim.

ACC NR: AP6023944

(A, N)

SOURCE CODE: UR/0390/66/029/003/0281/0287

AUTHOR: Zeymal', E. V.; Satrapinskiy, Yu. F.

ORG: Laboratory of the Pharmacology of Biologically Active Substances (Head-Prof. M. Ya. Mikhel'son), Institute of Evolutionary Physiology and Biochemistry im. I. M. Sechenova, Academy of Sciences, SSSR (Laboratoriya farmakologii biologicheskii aktivnykh veshchestv Instituta evolyutsionnoy fiziologii i biokhimi AN SSSR)

TITLE: Central action of tertiary or quaternary nitrogen compounds after intravenous injection or introduction into the lateral brain ventricle

SOURCE: Farmakologiya i toksikologiya, v. 29, no. 3, 1966, 281-287

TOPIC TAGS: drug EFFECT, ~~blood~~ brain barrier, tertiary amine, quaternary amine, organic compound, BLOOD

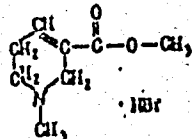
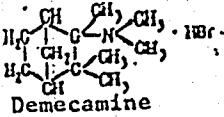
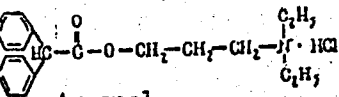
ABSTRACT: The effects of the 9 tertiary and 11 quaternary amines after intravenous or direct injection into the brain are summarized in Tables 1 and 2. The ED<sub>50</sub> ratio was greater for quaternary compounds, probably because of their penetration of the blood-brain barrier. Increased penetration occurred when methyl radicals were substituted for ethyl in the quaternary nitrogen atom (see Fig. 1). Small doses of ganglion-blocking agents

Card 1/8

UDC: 615.787+615.784]-032:[611.14+611.813.8]-015

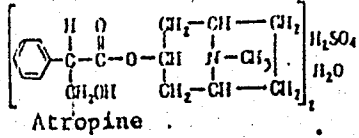
ACC NR: AP6023944

Table 1. Comparison of the central action of tertiary nitrogen compounds a) injected intravenously b) injected into the brain

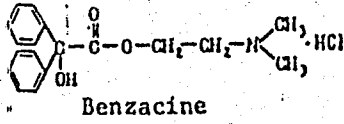
| Compound                                                                                        | ED <sub>50</sub> (in mg/kg)                                                                    |                                                                                     | ED <sub>50</sub> intravenous<br>ED <sub>50</sub> in the<br>ventricle                             |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|                                                                                                 | Intravenous                                                                                    | Lateral<br>Ventricle                                                                |                                                                                                  |
| <br>Arecholine | Causing tremor                                                                                 |                                                                                     |                                                                                                  |
|                                                                                                 | 0,29 (0,22+0,48)<br>fED <sub>50</sub> = 1,23; S = 1,43;<br>f <sub>S</sub> = 1,17               | 0,11 (0,1+0,12)<br>fED <sub>50</sub> = 1,09; S = 1,18<br>f <sub>S</sub> = 1,14      | 3,5 (2,6+4,4)<br>S.R. = 1,12; f <sub>S.R.</sub> = 1,22<br>P.R. = 3,6; f <sub>P.R.</sub> = 1,25   |
|                                                                                                 | Causing spasm                                                                                  |                                                                                     |                                                                                                  |
|                                                                                                 | 0,31 (0,28+0,34)<br>fED <sub>50</sub> = 1,09; f <sub>S</sub> = 1,2;<br>f <sub>S</sub> = 1,1    | 0,06 (0,06+0,1)<br>fED <sub>50</sub> = 1,24; S = 1,65;<br>f <sub>S</sub> = 1,22     | 3,9 (3,1+4,0)<br>S.R. = 1,29; f <sub>S.R.</sub> = 1,61<br>P.R. = 3,9; f <sub>P.R.</sub> = 1,25   |
|                                                                                                 | Preventing nicotine<br>spasm                                                                   |                                                                                     |                                                                                                  |
| <br>Demecamine | 0,088 (0,00+0,12)<br>fED <sub>50</sub> = 1,56; f <sub>S</sub> = 1,75;<br>f <sub>S</sub> = 1,74 | 0,047 (0,036+0,062)<br>fED <sub>50</sub> = 1,32; S = 1,73;<br>f <sub>S</sub> = 1,58 | 1,8 (1,2+2,7)<br>S.R. = 1,00; f <sub>S.R.</sub> = 1,95<br>P.R. = 1,8; f <sub>P.R.</sub> = 1,51   |
| <br>Arpenal   | 3,2 (2,8+3,6)<br>fED <sub>50</sub> = 1,14; S = 1,26;<br>f <sub>S</sub> = 1,09                  | 2,9 (2,3+3,6)<br>fED <sub>50</sub> = 1,23; S = 1,47;<br>f <sub>S</sub> = 1,22       | 1,1 (0,85+1,41)<br>S.R. = 1,17; f <sub>S.R.</sub> = 1,24<br>P.R. = 1,1; f <sub>S.R.</sub> = 1,28 |

Card 2/8

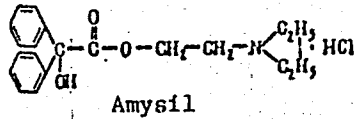
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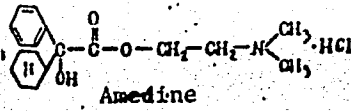
| Preventing arecholine tremor      |                                    | 1 (0.6+1.0)           |
|-----------------------------------|------------------------------------|-----------------------|
| 0.6 (0.43+0.89)                   | 0.6 (0.47+0.89)                    | S.R. = 1; S.R. = 1.55 |
| ED <sub>50</sub> = 1.4; S = 1.65; | ED <sub>50</sub> = 1.38; S = 1.65; | P.R. = 1; P.R. = 1.50 |
| I <sub>S</sub> = 1.21             | I <sub>S</sub> = 2.6               |                       |



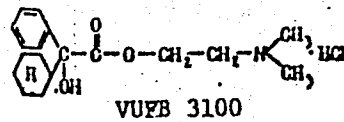
|                                   |                                  |                          |
|-----------------------------------|----------------------------------|--------------------------|
| 0.11 (0.08+0.17)                  | 0.21 (0.12+0.35)                 | 0.8 (0.2+0.95)           |
| ED <sub>50</sub> = 1.55; S = 2.2; | ED <sub>50</sub> = 1.7; S = 2.1; | S.R. = 1.0; S.R. = 1.56; |
| I <sub>S</sub> = 1.65             | I <sub>S</sub> = 2.0             | P.R. = 0.5; P.R. = 1.9   |



|                                    |                                  |                         |
|------------------------------------|----------------------------------|-------------------------|
| 0.065 (0.6+0.07)                   | 0.14 (0.08+0.2)                  | 0.5 (0.3+0.8)           |
| ED <sub>50</sub> = 1.12; S = 1.29; | ED <sub>50</sub> = 1.6; S = 2.2; | S.R. = 1.7; S.R. = 1.95 |
| I <sub>S</sub> = 1.07              | I <sub>S</sub> = 2.4             | R.S. = 0.5; P.R. = 1.62 |



|                                    |                                   |                          |
|------------------------------------|-----------------------------------|--------------------------|
| 0.05 (0.03+0.07)                   | 0.09 (0.075+0.10)                 | 0.6 (0.4+0.8)            |
| ED <sub>50</sub> = 1.46; S = 1.94; | ED <sub>50</sub> = 1.18; S = 1.2; | S.R. = 1.36; S.R. = 1.69 |
| I <sub>S</sub> = 1.55              | I <sub>S</sub> = 1.34             | P.R. = 0.6; P.R. = 1.48  |



|                                   |                                  |                          |
|-----------------------------------|----------------------------------|--------------------------|
| 0.05 (0.04+0.07)                  | 0.14 (0.1+0.2)                   | 0.34 (0.23+0.56)         |
| ED <sub>50</sub> = 1.32; S = 1.9; | ED <sub>50</sub> = 1.4; S = 2.2; | S.R. = 1.16; S.R. = 1.5  |
| I <sub>S</sub> = 1.3              | I <sub>S</sub> = 1.35            | P.R. = 0.36; P.R. = 1.55 |

1 Dose, Preventing spasm caused by a 0.6 mg/kg dose of nicotine  
 2 Dose, Preventing spasm caused by a 0.6 mg/kg dose of nicotine

Card 3/8

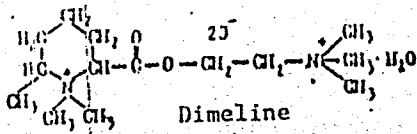
ACC NR: AP6023944

Table 2. Comparison of the central action of quaternary nitrogen compounds when administered a) intravenously and b) into the left ventricle of the brain.

| Compound                                                                                                                                                                                                                                                                                                                          | ED <sub>50</sub> (in mg/kg)                                                                |                                                                                                      | ED <sub>50</sub> intravenous into ventricle                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                   | intravenous                                                                                | into ventricle                                                                                       |                                                                                    |
| $\begin{array}{c} \text{H}_3\text{C} \\ \diagup \\ \text{N}^+ - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{N}^+ \begin{array}{l} \diagdown \\ \text{CH}_3 \\ \diagup \\ \text{CH}_3 \end{array} \\ \diagdown \\ \text{H}_3\text{C} \end{array} \cdot 2\text{Br}^-$ <p>Hexonium</p> | Preventing nicotine spasms                                                                 |                                                                                                      |                                                                                    |
|                                                                                                                                                                                                                                                                                                                                   | 0,85 <sup>1</sup> (0,81±0,89)<br>fED <sub>50</sub> = 1,04;<br>S=1,07; f <sub>S</sub> =1,07 | 0,0117 <sup>1</sup> (0,01±0,014)<br>fED <sub>50</sub> = 1,16;<br>S=1,28; f <sub>S</sub> =1,27        | 72 (61±84)<br>S.R.=1,18;<br>f.S.R.=1,28<br>P.R.=72;<br>f.P.R.=1,17                 |
|                                                                                                                                                                                                                                                                                                                                   | 8,8 <sup>1</sup> (5,5±8,4)<br>fED <sub>50</sub> = 1,23;<br>S=1,49; f <sub>S</sub> =1,41    | 0,035 <sup>1</sup> (0,027±0,045)<br>fED <sub>50</sub> = 1,29;<br>S=1,5; f <sub>S</sub> =1,65         | 19 <sup>1</sup> (140±270)<br>S.R.=1,05;<br>f.S.R.=1,76<br>P.R.=194;<br>f.P.R.=1,39 |
| $\begin{array}{c} \text{H}_3\text{C} \\ \diagup \\ \text{N}^+ - \text{CH}_2 - \text{CH}_2 - \text{S} - \text{CH}_2 - \text{CH}_2 - \text{N}^+ \begin{array}{l} \diagdown \\ \text{CH}_3 \\ \diagup \\ \text{CH}_3 \end{array} \\ \diagdown \\ \text{H}_3\text{C} \end{array} \cdot 2\text{J}^-$ <p>Thiamethone</p>                | 4 <sup>1</sup> (3,22±4,56)<br>fED <sub>50</sub> = 1,24;<br>S=1,68; f <sub>S</sub> =1,26    | 0,019 (0,016±0,023)<br>fED <sub>50</sub> = 1,19;<br>S=1,42;<br>f <sub>S</sub> =1,46                  | 210 (109±278)<br>S.R.=1,18;<br>f.S.R.=1,56<br>P.R.=210;<br>f.P.R.=1,32             |
| $\begin{array}{c} \text{H}_3\text{C} \\ \diagup \\ \text{N}^+ - \text{CH}_2 - \text{CH}_2 - \text{N}^+ \begin{array}{l} \diagdown \\ \text{CH}_3 \\ \diagup \\ \text{CH}_3 \end{array} \\ \diagdown \\ \text{H}_3\text{C} \end{array} \cdot 2\text{Cl}^-$ <p>Pentamine</p>                                                        | 0,8 <sup>1</sup> (0,47±0,77)<br>fED <sub>50</sub> = 1,28;<br>S=1,65; f <sub>S</sub> =1,31  | 0,0055 <sup>1</sup><br>(0,004±0,007)<br>fED <sub>50</sub> = 1,36;<br>S=1,87;<br>f <sub>S</sub> =1,39 | 109 (73±161)<br>S.R.=1,13;<br>f.S.R.=1,53<br>P.R.=109;<br>f.P.R.=1,48              |

Card 4/8

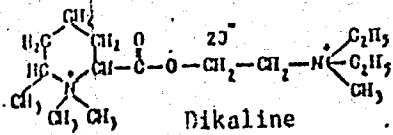
ACC NR: AP60239411



31 (2.7-3.8)
   
 $ED_{50} = 1.28$ 
  
 $S = 1.5; I_S = 1.43$

0.00151
   
 (0.0037+0.002)
   
 $ED_{50} = 1.22$ 
  
 $S = 1.55; I_S = 1.23$

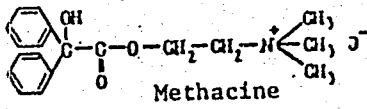
666 (165+212)
   
 $S.R. = 1.03$ 
  
 $I.S.R. = 1.51$ 
  
 $P.R. = 666$ 
  
 $I.P.R. = 1.37$



8.7 (5.3-8.7)
   
 $ED_{50} = 1.28$ 
  
 $S = 1.73; I_S = 1.34$

0.01251
   
 (0.008+0.018)
   
 $ED_{50} = 1.48$ 
  
 $S = 1.91; I_S = 1.58$

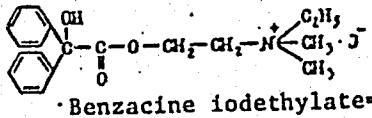
844 (342+865)
   
 $S.R. = 1.1$ 
  
 $I.S.R. = 1.72$ 
  
 $P.R. = 544$ 
  
 $I.P.R. = 1.59$



Preventing arecholine tremor
   
 16.7 (14.4-17.2)
   
 $ED_{50} = 1.09$ 
  
 $S = 1.2; I_S = 1.08$

0.063 (0.052+0.064)
   
 $ED_{50} = 1.1$ 
  
 $S = 1.1; I_S = 1.12$

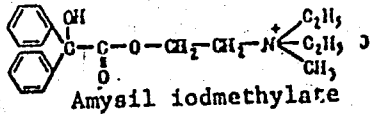
870 (237+308)
   
 $S.R. = 1.04$ 
  
 $I.S.R. = 1.16$ 
  
 $P.R. = 270$ 
  
 $I.P.R. = 1.114$



12.0 (11.0-13.1)
   
 $ED_{50} = 1.09$ 
  
 $S = 1.14; I_S = 1.1$

0.16 (0.11+0.24)
   
 $ED_{50} = 1.6$ 
  
 $S = 1.6; I_S = 1.36$

76 (42+116)
   
 $S.R. = 1.4$ 
  
 $I.S.R. = 1.38$ 
  
 $P.R. = 75$ 
  
 $I.P.R. = 1.52$

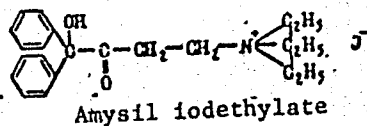


13.5 (12.3-14.8)
   
 $ED_{50} = 1.11$ 
  
 $S = 1.10; I_S = 1.1$

0.23 (0.16+0.33)
   
 $ED_{50} = 1.45$ 
  
 $S = 1.65; I_S = 1.29$

68.7 (45+76.5)
   
 $S.R. = 1.3$ 
  
 $I.S.R. = 1.32$ 
  
 $P.R. = 68.7$ 
  
 $I.P.R. = 1.31$

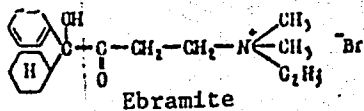
ACC NR: AP6023944



18.0 (16-19.26)  
 $ED_{50} = 1.07$   
 $S = 1.1$   
 $I_S = 1.1$

0.4 (0.3-0.66)  
 $ED_{50} = 1.4$   
 $S = 1.68$   
 $I_S = 1.3$

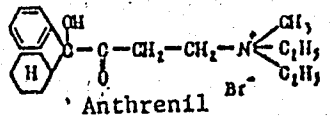
45 (32-63)  
 $S.R. = 1.63$   
 $I.S.R. = 1.32$   
 $P.R. = 45$   
 $I.P.R. = 1.6$



> 5  
 6 мг/кг — неэффективен  
 7 мг/кг — токсичен

0.08 (0.05-0.12)  
 $ED_{50} = 1.54$   
 $S = 1.65$   
 $I_S = 1.45$

> 62



2.5 (1.5-3.1)  
 $ED_{50} = 1.34$   
 $S = 1.6$   
 $I_S = 1.3$

0.17 (0.11-0.25)  
 $ED_{50} = 1.6$   
 $S = 2.2$   
 $I_S = 1.36$

14.8 (9-21.4)  
 $S.R. = 1.22$   
 $I.S.R. = 1.5$   
 $P.R. = 14.8$   
 $I.P.R. = 1.65$

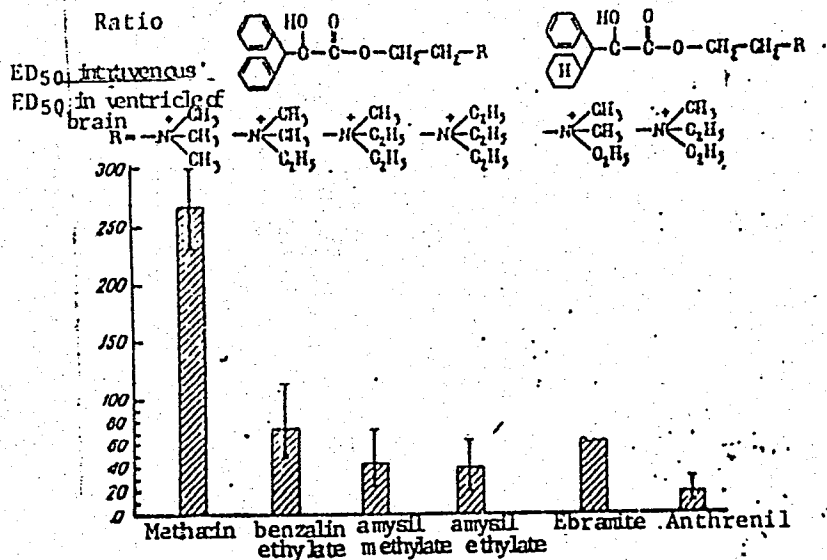
Dose preventing spasm caused by a 0.4 mg/kg dose of nicotine  
 Dose preventing spasm caused by a 0.6 mg/kg dose of nicotine

Card 6/8



ACC NR: AP6023944

Fig. 1. Improvement of the penetration of quaternary ammonium compounds through the blood-brain barrier on substitution of ethyl for methyl radicals at the quaternary nitrogen atom.



Card 7/8

ACC NR: AP6023944

injected intraventricularly prevented nicotine spasms, suggesting their  
similarity to central N-cholinoreceptors. [WA-50; CBE No. 10]

SUB CODE: 06/ SUBM DATE: 27Jan65/ ORIG REF: 010 / OTH REF: 024/

Card 8/8

ZEYMAL', E.V.

Quantitative study of the penetration of an organic phosphorus anticholinesterase substance with a positive charge in the molecule from the blood into different segments of the cat brain. Farm. i toks. 26 no.2:157-164 Mr-Apr '63. (MIRA 17:8)

1. Laboratoriya farmakologii (zav. - prof. M.Ya. Mikhel'son)  
Instituta evolyutsionnoy fiziologii imeni Sechenova.

ZEYMAL', E.V.

Central action of some cholinergic substances introduced intravenously and into the lateral ventricle of the brain in mice. Dokl. AN SSSR 155 no.6:1468-1471 Ap '64. (MIRA 17:4)

1. Institut evolyutsionnoy fiziologii im. I.M. Sechenova AN SSSR. Predstavleno akademikom M.I. Kabachnikom.

43301

Z/052/62/000/009/001/001  
D267/D307

27.3500

AUTHORS: Zeymalova, E.V. and Votava, Z.

TITLE: Effect of some anticholinergics in vitro and in vivo on the activity of serotonin

PERIODICAL: Československá Farmacie, no. 9, 1962, 466-469

TEXT: In view of the fact that the effect of serotonin on some smooth muscles resembles that of acetylcholine, it was decided to carry out this investigation. The five anticholinergics chosen were cyclically substituted esters of acetic acid with 2-substituted ethanol, viz. two ternary amine derivatives, two quaternary amine derivatives and one sulfonium derivative. The in vitro experiments were carried out with an isolated stomach and uterus of a rat, whereas the in vivo tests comprised the serotonin-induced oedema of the rat's paw, and the local effect of serotonin after intradermal administration. It was found that the anticholinergics chosen had an anti-serotonin effect only in the case of isolated organs and only if used in high concentrations. There are 4 figures and 1 table.

X

Card 1/2

Effect of some ...

Z/052/62/000/009/001/001  
D267/D307

ASSOCIATION: Výzkumný ústav pro farmacii a biochemii, Praha  
(Research Institute of Pharmaceutics and Biochemistry,  
Prague)

SUBMITTED: February 7, 1962

X

Card 2/2

ZEYMAN, R. I.

"Vascular Symptoms as Indicators of Various Regenerations in the Course of  
an Infectious Process," Pediatrics, No. 2, 1948.

Mbr., Central Sci. Res. Pediatric Inst., Min. Pub. Health RSFSR, -c1948-.

GORDON, Andrey Vladimirovich; SLIVINSKAYA, Alla Georgiyevna;  
KOROBAN, N.T., kand. tekhn. nauk, retsenzent; ZEYN,  
Ye.N., inzh.-podpolkovnik, red.

[Polarized electromagnets] Poliarizovannye elektromag-  
nity. Moskva, Energiia, 1964. 119 p. (MIRA 17:11)



GORDON, Andrey Vladimirovich; SLIVINSKAYA, Alla Georgiyevna; KOROBAN,  
N.T., dotsent, kand.tekhn.nauk, retsenzent; ZEIN, Ye.N., inzh.-  
podpolkovnik, red.; VORONIN, K.P., tekhn.red.

[Direct current electromagnets] Elektromagnity postoiannogo toka.  
Moskva, Gos.energ.izd-vo, 1960. 446 p. (MIRA 13:3)  
(Electromagnets)

SLIVINSKAYA, Alla Georgiyevna; GORDON, Andrey Vladimirovich;  
KOROBAN, N.T., kand. tekhn. nauk, retsenzent; ZEYN,  
Ye.N., inzh.-podpolkovnik, red.

[Permanent magnets] Postoiannye magnity. Moskva, Energiia,  
1965. 127 p. (MIRA 18:5)

TER-AKOPOV, Aleksandr Karapetovich; GORDON, A.V., kand. tekhn.  
nauk, retsenzent; ZEYN, Ye.N., inzh.-podpolkovnik, red.

[Dynamics of high-speed electromagnets] Dinamika vysiro-  
deistvuiushchikh elektromagnitov. Moskva, Energiia,  
1965. 166 p. (MIRA 18:4)

S/058/63/000/002/047/070  
A160/A101

AUTHORS: Bezdetnyy, N. M., Kocharli, K. Sh., Zeynally, A. Kh.

TITLE: An investigation of some photoelectric properties of silicon single crystals with the help of the microradiowave technique

PERIODICAL: Referativnyy zhurnal, Fizika, no. 2, 1963, 77, abstract 2E521 ("Uch. zap. Azerb. un-t. Ser. fiz.-matem. i khim. n.", no. 4, 1961, 89 - 93)

TEXT: By the method of radio wave absorption in the frequency range of 8.6 ÷ 9.6 kilo-megahertz, an investigation was carried out of the spectral and luxampere characteristic of the natural photoconductivity (for a light with a wavelength of 0.2 to 1.2  $\mu$ ) in a n = Si single crystal with a specific resistance of 40 ohm-cm and a carriers life time of 40 - 60  $\mu$ sec at room temperature. It was established that the luxampere characteristics are linear for a light with a wavelength of 1.0, 1.1 and 1.15  $\mu$ . The authors explain that this is due to the high dark concentration of free carriers in comparison to the concentrations of recombination centers. It was established that the maximum of the spectral

Card 1/2

An investigation of some...

S/058/63/000/002/047/070  
A160/A101

characteristic of the natural photoconductivity of the monocrystalline Si is to be found at a wavelength of  $1.1 \mu$ .

Yu. Ukhonov

[Abstracter's note: Complete translation]

Card 2/2

BEZDETNYI, N.M.; KOCHARLI, K.Sh.; ZEYNALLY, A.Kh.

Use of microradiowave techniques in studying certain photoelectric properties of silicon single crystals. Uch. zap. AGU. Ser. fiz.-mat. i khim. nauk no.4:89-93 '61. (MIRA 16:6)  
(Silicon crystals) (Microwaves)

ZEYNALLY, A.kh.; KOCHARLI, K.Sh.; KHALILOV, P.A.

Apparatus for studying the photoeffect. Uch. zap. AGU. Ser. fiz.-mat.  
i khim. nauk no.4:99-104 '61. (MIRA 16:6)

(Photoelectricity)

KOCHARLI, K.Sh.; ZEYNALLY, A.Kh.; BELEN'KIY, G.I.

Energy structure of antimony selenide. Uch zap. AGU. Ser. fiz.-mat. nauk  
no.2:83-87 '63. (MIRA 18:1)



MIRZOYEV, B.R.; ZEYNALLY, A.Kh.; LEBEDEVA, N.N.

Some properties of 50% alloys of antimony selenide and sulfide.

Uch. zap. AGU. Ser. fiz.-mat. i khim. nauk no.4:95-98 '61.

(MIRA 16:6)

(Antimony alloys--Spectra)



KOLOMIYETS, B.T.; ZEYNALLY, A.Kh.

Photoconductivity of  $Sb_2Se_2$ . Fiz. tver. tela 1 no.6:979-980 Je '59.  
(MIRA 12:10)

1. Leningradskiy fiziko-tekhnicheskii institut AN SSSR.  
(Photoconductivity) (Antimony selenide--Electric properties)

AVANESOV, V.T.; RZABEKOV, Z.F.; ZEYNALLY, M.I.; MELIK-ASLANOV, L.S.

Determining the effectiveness of secondary methods of oil recovery.  
Trudy AzNII DN no.3:241-259 '56. (MIRA 11:6)  
(Secondary recovery of oil)

ZEYNALLY, M.I.

Dissection of the Kirmaki cross section. Azerb. neft. khoz. 37  
no.7:9-13 J1 '58. (MIRA 11:9)

(Apshehon Peninsula--Petroleum geology)

ZEYNALLY, M.I.; KADYRLY, A.M.

Methods for increasing the yield of petroliferous layers. Sbor.nauch.-  
tekh.inform. Azerb.Inst.nauch.-tekh.inform.Ser.neft.prom. no.1:29-37  
'63. (MIRA 18:8)

ZEYNALLY, N.I.; SHAPIRO, B.A.

Flooding the Sub-Kirmaki series in the southern wing of the  
Mashtagi-Buzovny field. Trudy AzNII DN no.3:148-168 '56. (MIRA 11:6)  
(Apsheron Peninsula--Oil field flooding)

ZEYNALLY, M. I.; LISTENGARTEN, B.M.; AMBARTSUMYAN, A.P.; GUKASOVA, Ye.K.

Effectiveness of production methods used in the exploitation of the Kirmaki series in fields of the Oil Field Administration of the Lenin Petroleum Trust. Azerb. neft. khoz. 39 no.7:20-22 J1 '60. (MIRA 13:10)

(Caucasus, Northern—Oil fields—Production methods)



ZEYNALOV, A.A.

Treatment of cholecystitis and cholangitis with antibiotics  
with the use of Istisu mineral water. Azerb. med. zhur. 41  
no.2:31-36 F '64 (MIRA 18:1)

ABDULLAYEV, G.; ZEYNALOV, A.; HAMEDOV, K.

Effect of X rays on perforated and electron transition. Izv. AN  
Azerb. SSR no. 11:61-67 N<sup>o</sup> 54 (MLRA 8:11)  
(Semiconductors)

ZEYNALOV, A.A.

Dzhafar Dzhabarly's play "Almas." (zv.AN Azerb.SSR no.6:157-169  
Je '57. (MIRA 10:10)

(Dzhabarly, Dzhafar, 1899-1934)

*Zeynalov, A.A.*

ZEYNALOV, A.A.

New type of people in the play "IAshar." Izv. AN Azerb. SSR no.11:  
141-153 '57. (MIRA 11:1)

(Dzhabarly, Dzhafer, 1899-1934)