6999**6** 

Structure of Monomeric Arseno Compounds

S/020/60/131/05/025/069 B011/B117

structure should be colorless. The authors presume that the difference between above-mentioned results could be explained with reference to the instability of the arsenobenzene. Its resinification (polymerization) products are most readily oxidized in air up to  $C_6H_5AsO$ . The latter as well as the resinification products of arsenobenzene are very readily soluble in many solvents, but are difficult to detect whereby unreliable results for the molecular weight of arsenobenzene are obtained. The authors arrived at the conclusion that reliable data on the structure of arsenobenzene can be obtained only when the X-ray structural analysis method is used. The thin, almost colorless (yellowish) crystals of arsenobenzene form thin needles. Axis b is the longer one. The simpler shapes are pinacoids [100] and [001]. From data obtained, the authors came to the conclusion that there are 3 crystallographically non-equivalent As atoms contained in a cell. As is proved by the established projection of the electron density (Fig 1), the arsenobenzene molecule is a cyclic system consisting of As atoms. One phenyl group is bound to each As atom. The cycle is six-membered (IV). Such cyclic molecules occupy the position of centers of symmetry within the crystal. The cycle is not arranged in one plane, but has a chair-shaped configuration and a valence angle As - As - As of 93°. The outer valence angles As - As - C are

69996 Structure of Monomeric Arseno Compounds s/020/60/131/05/025/069 B011/B117 99 ± 3°. The lengths of the bonds As - As are 2.44 A, and that of the bonds C - As = 1.96 A. Provided that data for arsenobenzene given by Blicke and Smith are correct, then their data on the molecular weights of parsenotoluene and p-arsencanisol are also reliable. Hence, the authors come to the conclusion that there are no arseno compounds with a structure R - As=AS - R at all. They actually are either polymers (I) and (II) or cyclic compounds (III) and (IV). There are 1 figure and 10 references, 3 of which are Soviet, ASSOCIATION: Vsesoyuznyy nauchno-issledovatel skiy khimiko-farmatsevticheskiy institut im. S. Ordzhonikidze (All-Union Chemicopharmaceutical Scientific Research Institute imeni S. Ordzhonikidze). Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences, USSR) PRESENTED: October 12, 1959, by A.N. Nesmeyanov, Academician SUBMITTED: October 6, 1959 Card 3/3

STREL'TSOVA, I.N.; STRUCHKOV, Yu.T.

经支持的运动。

Steric hindrance and conformation of molecules. Report No.4: Crystal structure of tetrabromo-m-xlene and tetrabromo-o-xylene. Izv. AN SSSR. Otd. khim. nauk no.2:250-259 F '61. (MIRA 14:2)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Xÿlene—Spectra)

STREL'TSOVA, I.N.; STRUCHKOV, Yu.T.

Steric hindrance and molecule conformation. Report No. 5: Crystalline structure of exachlorobenzene. Zhur.strukt.khim. 2 no.3:312-326 My-Je '61. (MIRA 15:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Benzene) (Crystallography)

STREL'TSOVA, L.I.; SHISTER, G.M., red.

[Investigating storm sewer inlets of combined sewerage systems; scientific report] Issledovenie livnespuskov obshchesplavnoi kanalizatsii; nauchnoe soobshchenie. Leningrad, Akad.kommun. khoz.im. K.D.Pamfilova, 1959. 50 p. (MIRA 13:10) (Sewerage)

THE REPORT OF THE PROPERTY OF

IMYANITOV, I.M.; MIKHAYLOVSKAYA, V.V.; ZIGANOV, N.P.; STREL'TSOVA, M.B.

Instrument for prolonged measurement of the intensity of an atmospheric electrical field in complex meteorological conditions. Izv.AN SSSR. Ser.geofiz. no.9:1121-1127 S '56.

(MLRA 9:12)

1. Glavnaya geofizicheskaya observatoriya imeni A.I. Voeykova. (Atmospheric electricity)

GENDZELEVSKAYA, V.S.; STREL'TSCVA, M.T.

Standardiration of knitted fabrics. Standardizatsiia 25
(MINA 14:7)
no.8:34-35 Ag '61.

(Knit goods--Standards)

LIBERMAN, Ye.A.; STREL'TSOVA, N.I.

Certain peculiarities of pupillary component of orientation reaction in man. Zh. vysshei nerv. deiat. 2 no. 6:886-893 Nov-Dec 1952.

(CLML 24:1)

1. Department of Psychiatry of Khar'kov Medical Institute and of the Ukrainian Psychoneurological Institute.

MEL'KUMOVA, A.S.; STREL'TSOVA, N.I.

Data on the pathogenesis and pathogenic therapy of hypertonia. Zhur.

(MIRA 6:12)

nevr.i psikh. 53 no.12:942-950 D '53.

1. Nevrologicheskoye otdeleniye polikliniki No.3 (Riga). (Hypertension)

STREL'TSOVA, N.I.

Clinical and pathophysiological data on the onset and development of schizophrenia. Zhur. nevr. i psikh. 64 no.1:75-79 \*164. (MIRA 17:5)

l. Kafedra psikhiatrii (zaveduyushchiy - prof. N.P. Tatarenko) Khar'kovskogo meditsinskogo instituta.

是这种是一种的人,我们就是一种,我们就是一个人,我们就是一种人的人,我们就是一个人的人的人,我们也没有一个人的人,也是一个人的人,也是一个人的人,也是一个人的人

BYLOV V.N., Ascit. biol. code; MAYISEVA. Ye.M., kand. biol.
naur; Ellovidova. E.D., red.; CTRELITSOVA N.P.,
red.

[Tulips; the best varieties] Trulipany; lurishie sorta.
Moskva, Kolon, 1965. 126 p.

[Mina 16:7]

GEL MAN, B.M.; KALASHNIKOV, P.A., spetsred.; STRKL TSOVA, N.P., red.; ABELIN, P.G., khudozh.-tekhn.red.

[Maintenance of tractors] Tekhnicheskii ukhod za traktorami. Leningrad, Izd-vo M-va sel'.khoz.SSSR, 1961. 99 p. (MIRA 14:2)

l. Zaveduyushchiy metodicheskim kabinetom Borovskogo uchilishcha mekhanizatsii seliskogo khozyaystva Kaluzhskoy oblasti (for Geliman).

(Tractors--Maintenance and repair)

BELYAYEV, I.M.; MUSHNIKOVA, K.S.; MILOVIDOVA, N.D., red.; STREL'TSOVA, N.P., red.; KANTOROVICH, A.P., tekhn. red.

[Pests and diseases of grain crops] Vrediteli i bolezni zernovykh kul'tur. Izd.2. n.p. Sel'khozizdat, 1963. 34 p. (MIRA 16:10)

(Grain-Diseases and pests)

TEMBRICA SERVICE SERVI

#### CIA-RDP86-00513R001653520011-7 "APPROVED FOR RELEASE: 08/26/2000

NIKIFOROV, A.M.; ZARING, P.V.[decensed]; MILOVIDOVA, N.D., red.; STREL'TSOVA, N.P., red.; KANTOROVICH, A.P., tekhn. red. [Pests and diseases of sugar beets] Vrediteli i bolezni zakharnoi svekly. 2. izd. Leningrad, Sel'khozizdat, 1963. 34 p.

1963. 34 P.

ZHUKOVA, K.P.; KAPKOVA, Ye.A.; KASIKHIN, A.N.; KOZLOVA, V.I.; EILOVIEOVA, N.D., red.; STREL\*TSOVA, N.P., red.

[Corn pests and diseases] Vrediteli i bolezni kukuruzy. 2. izd. Moskva, Sel'khozizdat, 1963. 34 p. (MIRA 17:4)

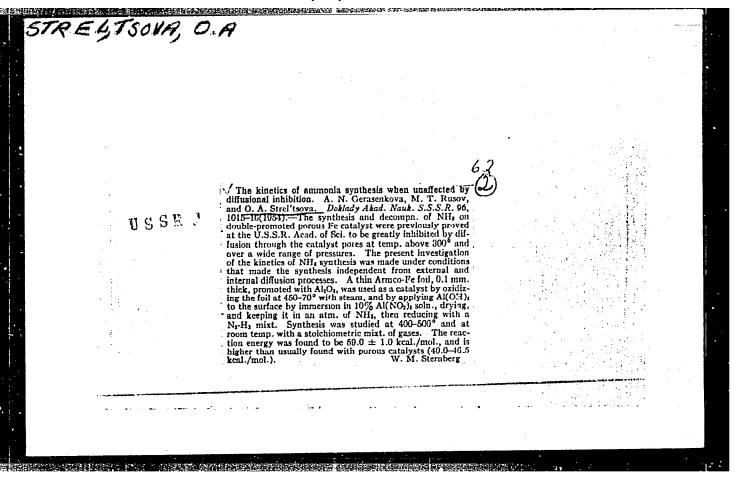
APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653520011-7"

GERASIMOV, B.A.; OSIITSKAYA, Ye.A.; MILOVIDOVA, N.D., red.;
STREL'TSOVA, k.F., red.

[Pests and diseases of vegetable crops grown outdoors]
Vrediteli i bolezni ovoshchnykh kul'tur v otkrytom

THE REPORT OF THE PERSON OF TH

grunte. Moskva, Kolos, 1964. 46 p. (MIRA 18:1)



STREL'TSOVA,R.D., inzhener; KOYRE,V.Ye., inzhener

Modern techniques for machining refined cast iron rolls. Vest.mash.

(MIRA 8:10)

35 no.8:38-40 Ag'55.

(Machine-shop practice)

STREL'TSOVA, R.D., inch.

Automatic control and accounting for the utilization of machine tools. Mashinostroenie no.2:31-33 Mr-Ap 165. (MIRA 18:6)

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP

CIA-RDP86-00513R001653520011-7

Preparation of dibutyl ether and dibutyl sulfate. S. C.
Sitrel'isova and S. B. Serebryanil. Ubrain. Khim. Zhur. 18.

10 S R.

Duo (II), and 130 g. concel. II, So), III are beated 3 brs.
with a Deun-Stark tray (S) mi. Ho collected), 69 g. h
Ho. 11/2 NaCO, and Ho. Of died oversiphet (CaCh.) and
distd. in acces to yield 310 g. II, bm 105-7°, and 105 g.
Bu.SO, b. 115-10°.

Risabeth Burabash

Lant. Org., Cham. A. S. U. M. S. S. R.

Lant. Org., Cham. A. S. U. M. S. S. R.

THE TAY THE TAY

Strel'tsova, S. G. -- "The Stereochemistry and Mechanism of Hydrigenation of Compounds with Tultiple Bonds." Acad Sci Ukrainian SCE.

Inst of Organic Chemistry. Kiev, 1956. (Dissertation for the Degree of Candidate in Chemical Science)

是一个人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个

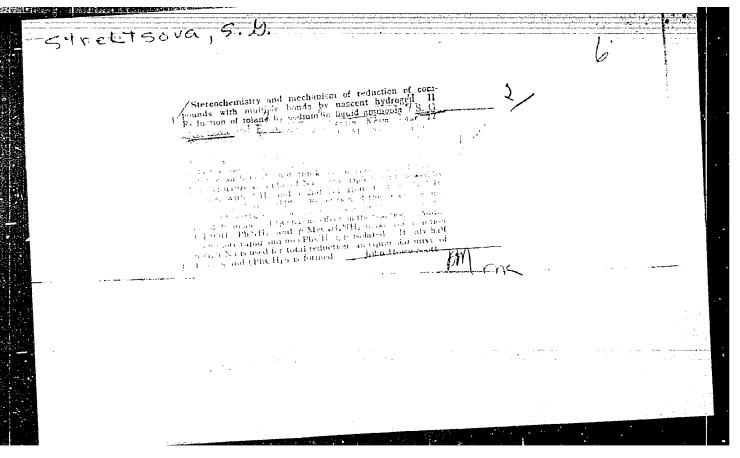
So: Prizhnava Latonis', Mo 12, 1756

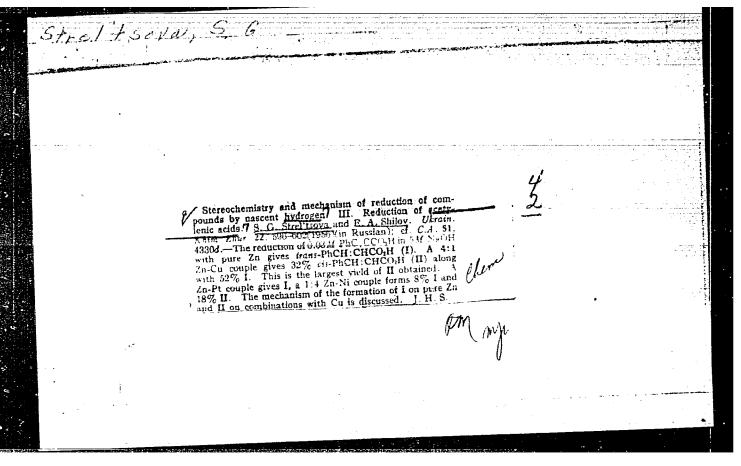
SHILOV, Ye.A.; STREL'TSOVA, S.G.

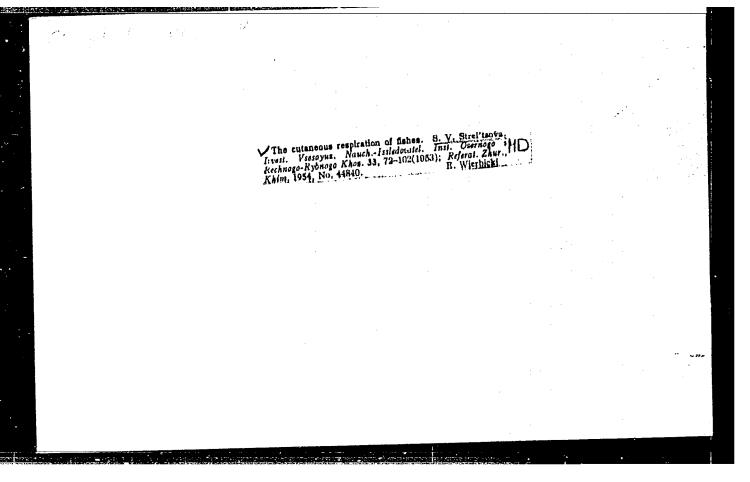
Stereochemistry and the nascent-hydrogen reduction mechanism of multiple-bond compounds. Part 1. Reduction of tolan by metals in alcohols and acetic acid. Ukr.khim.zhur.22 no.3:341-346 156.

(MIRA 9:9)

1.Institut otganicheskoy khimii AN USSR.
(Acetylene) (Reduction, Chemical)







	•					
Sectional chi Bogdanov and Issledoratel. In 103-15(1053); Refe	anges in the respi S. V. Strel'tsava. 31. Ozernogo i Reco rat. Zhur., Khim.	ration of tishes.  Izvest. Vicioyus. I knogo Rybnogo Kh 1954, No. 44839. E. Wierhicki	C. N. Vauch oz. 33,			
			Ø		Alghanian * =	
			•			
				•		

STREL'TSOVA, S.V.; BOGDANOV, G.N.

Changes in the respiration and hematological indices of carp during wintering. Trudy sov. Ikht.kom. no.8: 271-277 '58. (MIRA 11:11)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut ozernogo i rechnogo rybnogo khozyastva.

(Carp) (Cold--Physiological effect) (Fishes--Physiology)

PRIVOL'NEV, T.I., STREL'TSOVA, S.V.; BRIZINOVA, P.M.; OSTROUMOVA, I.N.; KOROLEVA, N.V.

Adaptation of fishes to new conditions of the environment. Vop. ekol. 5:180-181 '62. (MIRA 16:6)

STREL'TSOVA, S.V.; BRIZINOVA, P.N.; BOGDANOV, G.N.; OSTROUMOVA, I.N.

Physiological indices of the same species of fishes in different geographical locations. Vop. ekol. 5:208-209 162. (MIRA 16:6)

1. Leningradskiy gosudarstvennyy nauchno-issledovatel skiy institut ozernogo i rechnogo rybnogo khozyaystva. (Fishes-Physiology)

PRIVELINEV, T.I.; STREETTEGVA, S.V.; PRICINGVA, E.N.; GOMMOVA, I.N.; KORCLEVA, N.V.

Prevention of lipoid liver degeneration of the rainbow trout by adding phosphatides to its diet. Dokl. AN SMSR 156 no. 5: 1241-1243 Je 164. (MIRA 17:6)

1. Gosudarstvennyy nauchno-issledovateliskiy institut ozernogo i rechnogo rybnogo khozyaystva, Leningrad.

ARABADZHYAN, I.R., red.; IZMAYLOVA, R.A., red.; KRAYEV, G.A., red.; [deceased]; KRICHEVSKIY, I.Ye., red.; SOKOLOV, I.B., red.; SOLNYSHKOV, V.A., red.; STREL'TSOVA, T.D., red.; FOMIN, G.D., red.; SHUL'MAN, S.G., red.; ABRAMSON, L.S., tekhn.red.

[Collection of papers on hydraulic engineering] Sbornik dokladov po gidrotekhnike. Moskva, Gosenergoizdat, 1962. 284 p. (MIRA 17:3)

1. Nauchno-tekhnicheskaya konferentsiya molodykh nauchnykh rabotnikov. 4th, 1962.

ARAVIN, ".I., prof., doktor tekhn. nauk; STREL'TSOVA, T.D., mladshiy nauchnyy sotrudnik

Investigation of planned unsteady percolation on integrators. Izv.

VNIIG 76:157-167 164.

是对我们的现在分词,我们是有关。

ENGLANDS TO THE STATE OF THE ST

STREET TO The providing to many extrements

The line a vertical watertight burder in solving percolation problems.

(20. VHIIG 76:245-248 164.)

L 7890-66 EWT(m)/EPF(c)/EWP(j)/T/ETC(m) WW/RM  ACC IR: AP5024957 SOURCE CODE: UR/0286/65/000/016/0020/0029  AUTHORS: Golutvina, L. F.; Pavlov, S. A.; Avilov, A. A.; Butuzkina, Z. A.; Tagntsiper, Z. B.; Plotnikov, I. V.; Abramova, D. S.; Strelltsows, V. I.  ORG: none  TITLE: Method for obtaining fireproof coverings. Class 8, No. 173702 19  SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 20	₹. · · · · · · · · · · · · · · · · · · ·	STANTES OF SELECTION OF SEL
ACC IR: AP5024957  AUTHORS: Golutvina, L. F., Pavlov, S. A.; Avilov, A. A.; Butuzkina, Z. A.; Tagntsiper, Z. B.; Plotnikov, I. V.; Abramova, D. S.; Strelltsows, V. I.  ORG: none  TITLE: Method for obtaining fireproof coverings. Class 8, No. 173702 b	9	le?
TOPIC TAGS: fireproofing, fireproof covering, sodium bicarbonate, potassium bicarbonate, aluminum sulfate, high polymen, professione continue, fire assistant matrice, high temperature continue.  ABSTRACT: This Author Certificate presents a method for obtaining fireproof coverings on the basis of high polymeric materials containing antipyrenes. To obtain self-extinguishing foam-forming coatingstpossessing high fire resistance How obtain self-extinguishing foam-forming coatingstpossessing high fire resistance and low heat conduction, a mixture of strong bases (for instance, sodium or potassium bicarbonate), salts of strong acids (for instance, aluminum sulfate), and salts containing water of crystallisation (vitriols, alums, and others) are used as antipyrenes.	No. 173702 b  1965, 20  Donate, potassium taining fireproof ng antipyrenes. To high fire resistance He tance, sodium or potas- minus sulfate). and	L 7890-66 EWT(m)/EPF(c)/EWP(j)/T/ETC(m) WW/RM  ACC IR: AP5024957 SOURCE CODE: UR/O  AUTHORS: Golutvina, L. F.; Pavlov, S. A.; Avilov, A. A.  Tgentsiper, Z. B.; Plotnikov, I. V.; Abramova, D. S.; S  ORG: none  TITLE: Method for obtaining fireproof coverings. Class  SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no.  TOPIC TAGS: fireproofing, fireproof covering, sodium bicarbonate, aluminum sulfate, high polymoric materials concoverings on the basis of high polymoric materials concovering and low heat conduction, a mixture of strong bases (for sium bicarbonate), salts of strong acids (for instance salts containing water of crystallisation (vitriols, as antipyrenes.
SUB CODE: MT/ SUBM DATE: 29Dec62 UDC: 678.049.91	UDC: 678.049.91	BOD GOD
Card 1/1		card 1/1
	75 PT 1	

STREL'TSOYD, VM

"The Effect of Prolonged Intake of Radioactive Cerium Through the Gastrointestinal Tract on the Rat Organism," by Yu. I. Moskalev and V. N. Strel'tsova, Meditsinskaya Radiologiya, Vol 1, No 6, Nov/Dec 56, pp 14-20

A total of 131 white rats were administered cerium chloride (Ce 144) with their drinking water in daily doses as follows: first group, 1.5 microcuries per day for 100 days; second group. 15 microcuries per day for 100 days; and third group, 150 microcuries per day for 10, 25, 50, and 100 days.

In the resultant radiation sickness, changes in the gastrointestinal tract predominate. In the acute stage an acute, necrotic gastroenterocolitis ith atrophy of the spleen and lymphoid tissue results; in the subcute and chronic phases, ulcerative colitis with selective localization of the ulcers in the cecum, the sigmoid colon, and the rectum results. The chronic stage is also accompanied by the development of tumors of the gastrointestinal tract, lungs, mammary glands, endocrine glands, etc.

In the above cases the diagnostic value of the blood indices was insignificant.

Tumors of the gastrointestinal tract and other organs result from identical ionization doses (10-28 krep), whether taken as a single dose or a prolonged dose, which is evidence of accumulation of the dose. (U)

: Human and Animal Physiology, Physical Factors gammtry

S..tomory= Mos. Jour. : Ref Zhur Biol, No. 2, 1959, No. 8573

: Strel'tmova V, Moskalev Yu. autior

: Long-range Consequences of Single and Chronic Entry of Redicactive Isotopes (Cellit, Rulos, Sr89,90) through the Lastitut. Tible

Gestrointestinal tract.

orig. Pub. : Med. radiologiya, 1957, 2, No. 3, 23--34

Montract

White rats were given Celhi in single doses of 100--100,000 microcuries or daily doses in the drinking water of 1.5-150 microcuries in the form of chlorides for a period of 100 days. Rulor was given in single doses of 450-7200 microcuries or deily doses of 1.6-800 micro-curies. A 9:1 mixture of Sr89 and Sr90 was given deily for a hundred days in amount of 0.03--15 microcuries, and a single dose of Sr90 amounting to 7.3--360 microcuries was employed. These doses exceed by one to three times the maximum allowable. The long-range result of their introduction were investigated by means of biopsy and necropsy of 26h rats, which succumbed after 200 days

1/4

gard:

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653520011-7"

: Human and Animal Physiology, Physical Factors

Abs. Jour. : Ref Zhur Biol, No. 2, 1959, No. 8573

Sigt hom

1.0 . .

Oriz Pub.

Shot code:

: in the chronic stage of radiation sickness. With prolonged administration of the isotopes, leukopenia developed, which was moderate in degree and disappeared rapidly (with a transition to laukocytomis) upon cessation of administration in the case of Cellis and Rulo6, but was more pronounced and lasted as long as the animal lived in the case of Sr90,89. The latter isotopes, as they are well reabsorbed in the organism, also led to the development of leukosis (204). The blastomogenic effect of Se<sup>144</sup> and Ru<sup>106</sup> was manifested primarily in the gastrointestinal tract, while Sr89,90, which is selectively laid down in the skeleton, led to the forms-2/4

Card:

Contegory: Human and Animal Physiology, Physical Factors

Abs. Jour.: Ref Zhur Biol, No. 2, 1959, No. 8573

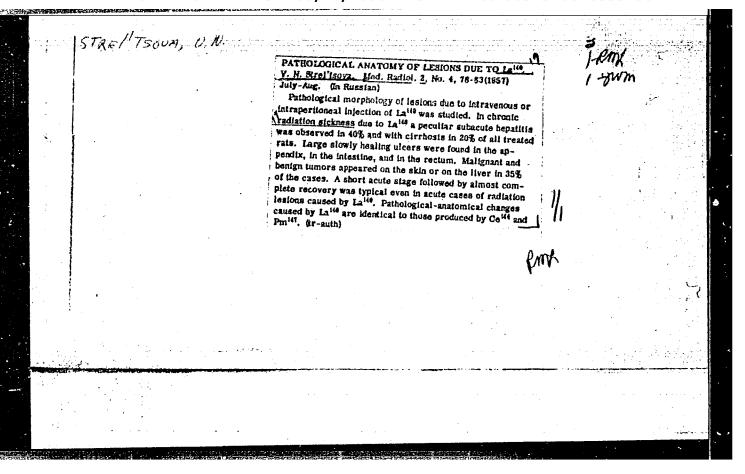
Author:

Corig Pub.:

In the crel cavity with frequent damage to bones (with \$1,09,90 and Cell4), obesity, nodular periarreritis and nephroslcerosis (with Rul00). Bibliography of 50 titles.

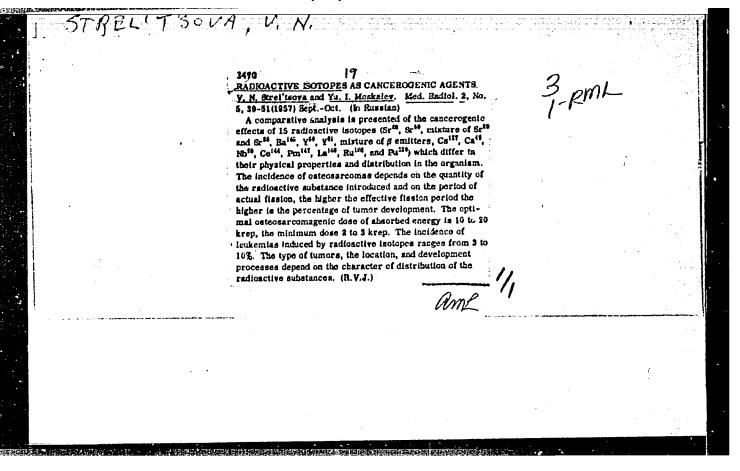
--E.B.Glikson

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653520011-7"



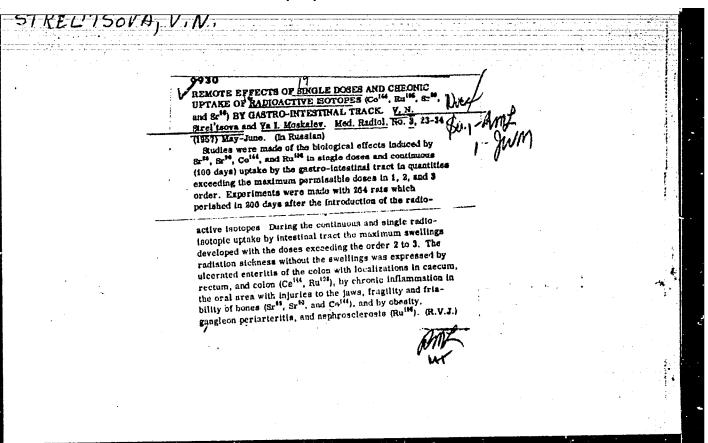
# "APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653520011-7



# "APPROVED FOR RELEASE: 08/26/2000

#### CIA-RDP86-00513R001653520011-7



```
STREETUEVALV M
             MOSKALEV, Yu.I.; STREL'TSOVA, V.N. (Moskva)
                    Effect of transection of the sciatic nerve on the blastomogenic
                    effect of strontium 89 [with summary in English]. Biul.eksp.biol.
                                                                    (MIRA 10:12)
                    i med. 44 no.7:96-99 Jl '57.
                    1. Predstavlena deystvitel'nym chlenom AMN SSSR V.N.Chernigovskim.
                            (STRONTIUM, radioactive,
                               carcinogenesis, eff. of section of sciatic nerve in
                               animals (Rus))
                            (NEOPLASMS, experimental,
                               eff. of sciatic nerve on carcinogenic eff. of radio-
                               strontium (Rus))
                            (MERVES, SCIATIC, physiology,
                               eff. of section on carcinogenic eff. of radiostrontium
                               in animals (Rus))
```

KRAYEVSKIY, N. A., ZAKUTINSKIY, D. I., KURLYANDSKAYA, E. B., MOSKALEV, Y. I., STRELISOVA, V. N., BURYKINA, L. N., LITVINOV, N. N. and SOLOV'YEV, Y. N.

"Long-Term Effects Produced by Small Doses of Radioactive Substances in Chronical Experiment."

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sep 58.

STRELITSOVA, V.N., BULDAKOV, L.A.

SEED ENGINEERING TO BE THE PROPERTY OF THE PRO

Data on the toxicology of radioactive ruthenium introduced through the gastrointestinal system. Med.rad 3 no.5:37-50 8-0 158 (MIRA 11:12)

(ISOTOPES, toxicity, radioruthenium, in animals (Rus))

	21(4); 17(0) PHATE	I BOYE EXPLOITATION 50	77/2008	
STREL TSOUA V.	A) International Conference on the Peac	eful Uses of Atomic Energy.	24, Geneva, 1958	•
	Deklady sovetskikh uchenykh; radiobi (Reports of Sowiet Scientists; Ra Mosco, Ind-ro Olav. upr. po ispo Sovete Ministrov 355R, 1999. 425 Ytorays Methdunarodnays konferent Trudy, tom 5)	diobiology and Radiation Medi l'zovaniyu atomnoy energii pr p. 8,000 copies printei. (	cine) :i Series:	
:	General Ed.: A.V. Labedinskiy, Corr Sciences; Ed.: Z.S. Shirokova;		d ot Medical	
*	FURPOSE: This book is intended for as well as for professors and etc rediction medicineers taught.	physicians, scientists, and e dents at viuzes where radiobi	ngineers cology end	
·	COVERAGE: This is Yolune 5 of a 6-s scientists at the Second Internal Atomic Energy, held on September	ional Conference on the Peace	ful Uses of	
•	Card 1/7			
	J? reports edited by Candidates on Sedov. The reports cover problem radiation, future consequences of rediation, treatment of radiation and the research of rediations, treatment of radiation sedical and biological research and therapeutic purposes, soil about their intake by plants, and their References accompany each report.  TABLE OF CONTESTS  Lebedinskiy, A.V., Tu.O. Grigor'yev, of Ionising Radiation in Small Doses Burytian, L.B., D.L. Labutinskiy, B.A. Vinov, Te.I. Hobbally, A.P. Novikova, Resorts Attereffects of Injury by Emal Chronic Exposure (Report Bo. 2017)  Gorisonter, P.D., Problem of Pathogen Fathophysiological Phase (Smport Bo. in Card 2/7)	f Medical Sciences S.V. Levin, of the biological effects or ordation in small dose, graduation in small dose, grow sciences, uses of radioact, uses of atomic energy for distinct of unanium firsten protection of uranium firsten protection of urani	f longing satic effects the interest to the satic effects the satic effect to the satic effect to the satic effect the satic effect to the satic effect the sat	
<del></del>			9	
· · · · · · · · · · · · · · · · · · ·				

BUDKO, L.N.; STREL'TSOVA, V.N.

Effect on the rat organism of a single and prolonged intake of

THE PROPERTY OF THE PROPERTY O

radioactive strontium through the gastrointestinal system [with summary in English]. Med.rad. 4 no.2:20-29 F '59. (MIRA 12:4) (STRONTIUM, radioactive, eff. of intra-oral intake on mt organism (Rus))

BURYKINA, L.N.; ZAKUTINSKIY, D.I.; KRAYEVSKIY, N.A.; KURLYANDSKAYA, E.B.; LITVINOV, N.N.;
MOSKALEV, Yu.I.; NOVIKOVA, A.P.; SOLOVIYEV, Yu. N.; STRELITSOVA, V.N.

Inte sequelae of lesions induced by radioactive substances in small doses applied in a chronic experiment. Med. rad. 4 no.3:3-6 Mr '59. (MIRA 12:7) (ISOTOPES, effects.

remote seq. of inj. by small doses of radioactive substances in animals (Rus))

Development of leukosis under the influence of ionizing radiations.

| Med.rad. 4 no.12:66-79 D '59. (MIRA 13:5) (LEUKENIA etiol.) (RADIATION INJURY compl.)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653520011-7"

,这种是有的更大,这是这个人也是不会是对这种类似的,但是不是不是不是不是不是一种的人,但是我们还有什么。

MOSKALEV, Yu.I.; STREL'TSOVA, V.N.

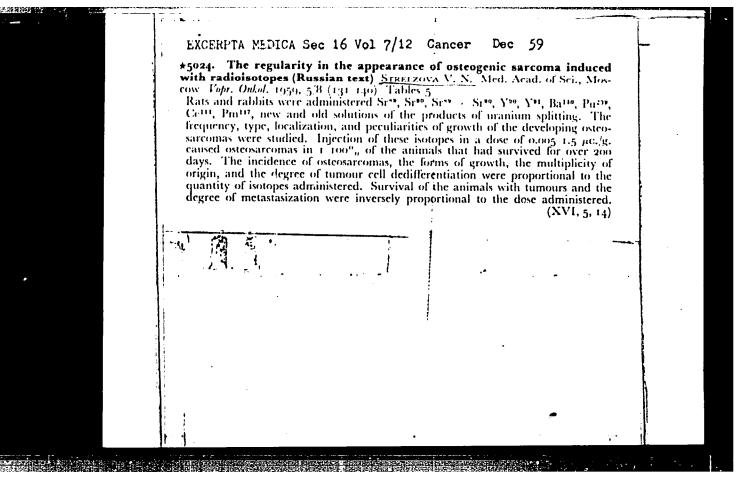
Blastomogenic activity of cerium 144. Vcp.onk. 5 no.6:669-675 '59.

(MIRA 12:12)

1. Iz AMN SSSR, Moskva. Adres avtorov: Moskva, D-182, Shchukinskaya ul.,
d.34, kv.ll)

(ISOTOPES, eff.
radiocerium, blastomogenic eff. in rats (Rus))

(NEOPLASMS, exper.
blastomogenic eff. of radiocerium in rats (Rus))



#### CIA-RDP86-00513R001653520011-7 "APPROVED FOR RELEASE: 08/26/2000

STREL'TSOVA, V.N.; MOSKALEV, Yu.I. Carcinogenic effect of a mixture of isotopes Sr<sup>89</sup> and Sr<sup>90</sup> in rabbits. Vop.onk. 5 no.10:388-395 '59. (MIRA 13:1 (STRONTIUM-ISOTOPES) (TUMORS) (MIRA 13:12)

的。 1965年的1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,19

SAKULIN, I.P.; STREL'TSOVA, V.N.; RESHETNIKOVA, A.F.; DAVYDOVA, A.L.; STEPANOVA, S.V.

Data on the epidemiology of influenza in Sverdlovsk in 1959. Zhur. mikrobiol. epid. i immun. 31 no. 121-124 0 60. (MIRA 13:12)

l. Iz Sverdlovskogo meditsinskogo instituta. (SVERDLOVSK—INFLUENZA)

STREL'TSOVA, V. N., DOC MED SCI, "ABOUT TUMORS, DE-VELOPING UNDER THE ACTION OF RADIOACTIVE PRODUCTS OF URANIUM FISSION. (EXPERIMENTAL (NVEST-IGATION)." Mos-COW, 1961. (ACAD MED SCI USSR). (KL, 3-61, 229).

377

MOSKALEV, Yu.I.; BULDAKOV, L.A.; STREL'TSOVA, V.N.

Relation between the biological effect of plutonium and the rhythm of its introduction into the organism. Radiobiologiia 1 no.2:250— (MIRA 14:7) 256 '61.

Tumors of the liver developing under the influence of Ce<sup>14,4</sup>.

Arkh. pat. 23 no.3:9-16 '61.

(LIVER-TUMORS) (GERIUM-ISOTOPES)

SAKULIN, I.P.; STRELITSOVA, V.N.; RESHETNIKOVA, A.F.; DAVYDOVA, A.L.; STEPANOVA, S.V.

THE SECTION OF THE PROPERTY OF

Material on the epidemiology of influenza in Sverdlovsk in 1959. Zhur.mikrobiol.epid.i immun. 32 no.1:137-140 Ja '61. (MIRA 14:6)

l. Iz kafedry epidemiologii Sverdlovskogo meditsinskogo instituta. (SVERDLOVSK...INFLUENZA)

BULDAKOV, L.A.; MOSKAIEV, Yu.1.; STREL'TSOVA, V.N.

Data on the biological activity of plutonium-239. Biul. eksp. biol. i med. 52 no.11:57-61 N '61. (MIRA: 15:3)

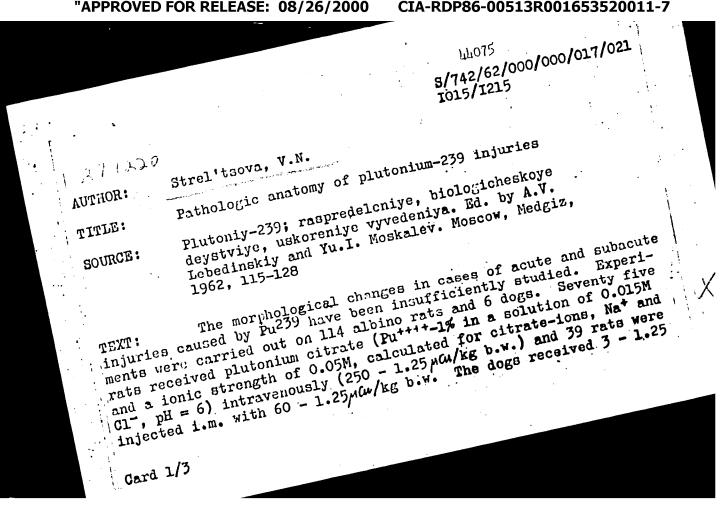
1. Predstavlena deystvitel'nym chlenom AMN SSSR A.V. Lebedinskim.

(PLUTONIUM--ISOTOPES)

CIA-RDP86-00513R001653520011-7 "APPROVED FOR RELEASE: 08/26/2000 DEFECT TO SELECT THE PROPERTY OF THE PROPERTY 44072 8/742/62/000/000/014/021 1015/1215 Moskalev, Yu.I., Buldakov, L.A., Strel'tsova, 271220 The effect of plutonium-239 on the rat AUTHORS: Plutoniy-239; raspredeloniye, biologicheskoye deystviye, uskoreniye vyvedeniya. Ed. by A.V. Lebedinskiy and Yu.I. Moskalev. Moscow, Medgiz, TITLE: а SOURCE: The biological effect of alpha-rays of plutonium has been ā; Wa 1962, 86-91 rave weigning too 20.0 - 201 - 10.7 8. A single dose of 1.27, 20.7, 20.0, 10.0, 20.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 20.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 20.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 20.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 20.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 20.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 20.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 20.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 20.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 20.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 20.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 20.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 20.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plutonium citrate (pH = 5.0, 10.0, 40.0 and 80.0 M(M/kg b.W. of plu The hem (6.0) was administered i.p. the survival were investigated in all the well as weight changes and the survival was inversely dependent; animals. The survival—dose relationship was inversely dependent. -Jection. | Card 1/2 In RBC counts Card 2/2

<u> 08/2</u>6/2000

CIA-RDP86-00513R00165352001



8/742/62/000/000/017/021 1015/1215

Pathologic anatomy of plutonium-239...

MU/kg b.w. i.m. The material was fixed in 10% formalin solution and embedded in celloidin-paraffin. Sections were stained with hematoxylin-eosin, van Gieson's method, Sudan-3 + hematoxylin and also in some instances with Foot's silver method. Autoradiographic investigations of bone and parenchymatous organs were performed as well. The acute radiation injury caused by Pu was characterized by the presence of hemorrhagic diathesis and of destructive changes in hemopoietic organs with subsequent appearance of anemia, leucopenia and necrobiotic changes in the intestinal nucose and liver parenchyma. Liver cirrhosis developed in rats and dogs in cases of chronic plutonium injuries. Neprosclerosis, various types of leukemia and osteosarcoma were common features accompanying chronic Pu injuries. The dogs turned out to be as much as ten times more sensitive to Pu than the rats were. The rats developed bone and mammary gland neoplasias following

Oard 2/3

KRAYEVSKIY, N.A.; STREL'TSOVA, V.N.; MOSKALEV, Yu.I. Blastomogenic action of small quantities of radioactive isotopes. Med.rad. 7 no.7:68-72 Jl '62. (RADIOISOTOPES—PHYSIOLOGICAL EFFECT) (MIRA 15:11)

(CARCINOGENESIS)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653520011-7"

```
POLUBOYARINOVA, Z.I. (Moskva, D-182, Zhivopisnaya ul., 24, kv. 33);

STREI'TGOVA, V.N. (Moskva, D-182, Shchukinskaya malaya ul.,
10-a,kv.19)

Appearance of multiple neoplasms in dogs under the influence
of Sr90. Vop. onk. 8 no.11:16-20 '62. (MIRA 17:6)

1. Iz Akademii meditsinsikh nauk SSSR.
```

STREL'ISOVA, V. N., MOSKALEV, Yu. I., PETROVICH, I. K.,

"Biological effect of fast neutrons and protons of high energy"

report to be submitted for the Sympsoium on Biological Effects of Neutron Irradiations (IAEA), Upton Long Island, N. Y., 7-11 Oct 63.

STREL'TSOVA, Vera Nikolayevna; NOSKALEV, Yuriy Ivanovich;
LANDAU-TYLKINA, S.P., red.; LYUDKOVSKAYA, N.I., tekhn.
red.

THE COURSE WITH THE PROPERTY OF THE PROPERTY O

[Blastomogenic effect of ionizing radiation] Blastomogennoe deistvie ioniziruiushchei radiatsii. Moskva, Meditsina, 1964. 382 p. (MIRA 17:3)

CTREL'TSOVA, V. H. "Tumors Developing Under the Influence of Radicactive Fission Products of Uranium." The canceregenic effects of a large number of radicactive isotopes were studies as well as the role of physiological factors in radiation canceregenesis.

实现<mark>在的对于1000年的11000年间,1000年的1100</mark>

emplifiate dissertation listed in <u>Meditainshape radiologiya</u>, no. 7, 1964. The article did not state specifically what degree was averded. The aunotated titles deal with studies on radiation physiology, radiation biochemistry, sombined traums and the influence of radiation on regenerative processes, radiation microbiology and immunology, and radiation pharmscology.

SSD/AFWL/AMD/Pb-4 s/0241/64/009/007/0022/0027 EWG(j)/EWT(m) L 13546-65 ACCESSION NR: AP4042742

Poluboyarinova, Z. I.; Strel'tsova, V. N. AUTHOR:

TITLE: Mechanism of functional and morphological changes in kidney

of rats treated with unithicl for radiation sickness (Po210)

SOURCE: Meditsinskaya radiologiya, v. 9, no. 7, 1964, 22-27

TOPIC TAGS: carcinoma, mammary gland carcinoma, radiation therapy, leukopenia, blood count

ABSTRACT: Acute radiation sickness was induced in 80 experimental white male rats (150 to 180 g) with a subcutaneous Po210 injection (0.075 microcuries/kg) and 20 animals served as a control. Fortyfive of the 80 experimental animals were treated with unithiol (100 mg/kg dose) twice daily for 6 days, and the control animals received the same unithiol therapy. Unithiol in the form of a 5% solution prepared with a 0.2% sodium bicarbonate solution was used. General condition of animals was determined by body weight changes and blood indices, and the functional state of the kidneys was determined by diuresis and specific gravity of urine. Animals were

Card 1/3

L 13546-65 ACCESSION NR: AP4042742

killed at various periods ranging from 10 min to 50 days following the Po210 injection and unithiol therapy, and morphological and histoautoradiographic investigations of the kidneys were made. Findings show that unithiol therapy increases the life expectancy of Po210-affected animals by increasing kidney isotope excretion and intensifying body regeneration reactions. At the same time a functional disorder of the kidneys in which the glomerulus becomes inadequate appears, the kidneys in which the glomerulus becomes inadequate appears, control animals, unithiol inhibits diuresis the first 3 or 4 days, and in the following days polyuria of a compensatory nature is found. Morphological investigations of control animal kidneys show that unithiol causes marked hyperemia of glomerulus capillaries and stroma during the first seven days and is followed by a transitory increase of cells in the glomerulus which disappears by the 14th day. The therapeutic effect of unithiol in Po210-affected animals is based on reducing the period of degenerative necrobiotic kidney changes and accelerating the regeneration period. However, this regeneration does not ensure complete restoration, but is limited to proliferation. The basic mass of dead elements in the renal parenchyma is replaced by

Card 2/3

L'13546-65
ACCESSION NR: APholi2712

connective tissue with the development of nephrosclerosis. Orig. art. has: 5 figures.

ASSOCIATION: None

SUBMITTED: 12Aug63 ENCL: 00 SUB CODE: IS

NR REF SOV: 005 OTHER: 002

GRAYEVSKIY, E.Ya.; KOROGODIN, V.I.; KUZIN, A.M., ; EO.KALEV, Yu.I.; SMIRHOV, K.V.; STRELIBSOVA, V.M.; SHAPIRO, N.I., doktor oiol. nauk; SHIKHOSTROV, V.Y.; EYLUS, L.Kh.; ALEKSAKHIN, A.F., red.

THE PERSON OF TH

[Principles of radiobiology] Osnovy radiatsionnoi biologii. Moskva, Nauka, 1964. 402 p. (EIRA 18:1)

- 1. Akademiya nauk SSSR. Institut biologicheskoy fiziki.
- 2. Chlen-korrespondent AN SSSK (for Kuzin).

#### 

<u>1 34112-65</u> EWG(3)/EWI(m) GS ACCESSION NR: AT5006123

S/0000/64/000/000/0192/0201

AUTHOR: Moskalev, Yu. I.; Strel'tsova, V. N.; Teplinskaya, G. N.

TITLE: Biological effects of strontium-90 in relation to the duration and frequency of uptake of the isotope

SOURCE: Raspredeleniye, biologicheskoye deystviye, uskoreniye vyvedeniya radio-aktivnykh izotopov (Distribution, biological effect, acceleration of the excretion of radioactive isotopes); sborník rabot. Moscow, Izd-vo Meditsina, 1964, 192-201

TOPIC TAGS: strontium-90, radioisotope, radioactivity, blood, tumor, leukemia

ABSTRACT: The results of experiments on 699 white rats showed that the rate of administration of strontium-90 as well as the dose markedly contributed to the biological effects of the isotope. For example, shortening of the survival time, lag in weight increase, degree of leukopenia and thrombocytopenia, and frequency of osteosarcomas were greatest after a single administration of strontium-90. On the other hand, the development of anemia and leukemia was not related to the frequency of uptake of the isotope, which indicates that after Sr<sup>90</sup> lesions the processes of summation and regeneration in different tissues took place at different rates. This was also true of the erythrocyte series. The values of LD<sub>50/240</sub> after a single

Card 1/2

43713-55 ESSION NR: AT5006123	1 106 up per rat: With	daily administration	O for
ministration of Sr <sup>90</sup> were 2 O days, they were 776 and 2 gures, 3 tables.	24 and 126 µc per rat; with 209 µc per rat, respectively	. Orig. art. has: 6	
SOCIATION: none		T	LS
	ENCL: 00	SUB CODE:	<i>B</i> 0
	OTHER: 000		
REF SOV: 000	•		
			,
•			
	•		

34129-65 EWG(j)/EWT(m) S/0000/64/000/000/0251/0272 ACCESSION NR: AT5006132 16 AUTHOR: Strel'tsova, V. N. TITLE: Pathological anatomy of radiation injury induced by promethium-147 SOURCE: Raspredeleniye, biologicheskoye deystviye, uskoreniye vyvedeniya radioaktivnykh izotopov (Distribution, biological effect, acceleration of the excretion of radioactive isotopes); sbornik rabot. Moscow, Izd-vo Meditsina, 1964, 251-272 TOPIC TAGS: promethium-147, radioisotope, radioactivity, radiation injury, liver, blood, tumor, bone marrow, kidney ABSTRACT: Description of the pathological changes that developed in rats after acute, subacute, and chronic injury induced by parenteral injection of Pm147. Acute injury by a soft beta emitter was characterized by aplastic changes in the hemopoietic tissue of bone marrow and the spleen, disturbances of the capillary circulation of the liver with atonia and persistent dilatation of the capillaries and small veins, degenerative changes in the liver and kidneys (albuminous and fatty degeneration, necrosis), and necrobiotic changes in the intestinal mucosa typical of ulcerative enterocolitis.

L 34129-65

ACCESSION NR: AT5006132

Subacute injury was in the form of specific parenchymatous hepatitis with a shifting relationship between the degenerative, proliferative, reparative, and sclerotic processes and the formation of cirrhosis developing against a background of atrophic changes in the hematopoietic organs accompanied by lympho-, leuko-, and erythropenia.

Chronic injury reflected the polymorphism of the pathological processes. The predominant features were tumors in various sites (osteosarcomas, malignant and benign tumors of soft tissues) or liver pathology (chronic hepatitis and cirrhosis), hyperplastic tumor disease of the hematopoietic organs (leukemia), and panangitis. Orig. art. has: 28 figures, 5 tables.

ASSOCIATION: none

SUBMITTED: 10Apr64

ENCL: 00

SUB CODE:

LS :

NO REF SOV: 000

OTHER: 000

Card 2/2

4128-65 EWG(j)/EWT(m) GS S/0000/64/000/000	/0273/0288
HOR: Strel'tsova, V. N.	B+/
HOR: Strel'tsova, V. N.  TLE: Pathological anatomy of radiation injury induced by niobium-95  TRCE: Raspredeleniys, biologicheskoye deystviye, uskoreniye vyvedeni  TRCE: Raspredeleniys, biologicheskoye deystviye, uskoreniye vyvedeni  TRCE: Raspredeleniys, biologicheskoye deystviye, uskoreniye vyvedeni	iya radio-
TRE: Pathological anatomy of radiation.  URCE: Raspredeleniys, biologicheskoye deystviye, uskoreniye vyvedeni  tivnykh izotopov (Distribution, biological effect, acceleration of the  tivnykh izotopov (Distribution, biological effect, acceleration)  tivnykh izotopov (Distribution, biological effect, acceleration)  tivnykh izotopov (Distribution, biological effect, acceleration)	4, 273-288
radioactive isotopes); sbornik rabot. Here radioactive isotopes); sbornik rabot. Here radioactivity, liver, lymphatic PIC TAGS: niobium-95, radioisotope, radioactivity, liver, lymphatic	system,
PIC TAGS: niobium-95, radioisotop-7	
dney, tumor, spermatogonical changes that developed in 3	3-month-old
STRACT: Description of the pathological changes that developed in Stract: Description of the pathological changes that developed in Stract: Description of the pathological changes that developed in Stract: Description of the pathological changes that developed by parents in Stract Pathological Stract Pathological Company of the pathological changes that developed in Stract Pathological Changes that developed in Stract Pathological Changes that de	ion of bone-
at after douce, our characterized by and	normalization
ats after acute, subacute, and chronic injury attempts after acute, subacute, and chronic injury (9-18 µc/g) was characterized by initial suppression. Acute injury (9-18 µc/g) was characterized by initial suppression. The part of several injury (9-18 µc/g) was characterized by initial suppression. The part of several injury in the parenchymatous organs with very severe kidney defined in the parenchymatous organs with the	amage; early
arrow hematopoiesis followed by restolations; predominance of degeneration of immature to mature cell forms; predominance of degeneration of immature to mature cell forms; predominance of degeneration of the parenchymatous organs with very severe kidney desired of the parenchymatous organs with very severe kidney desired of the parenchymatous and disappearance of germinal cells.	
f the ratio of immature to the parenchymatous organs with very severe to the iotic changes in the parenchymatous organs with very severe to the iotic changes in the parenchymatous organs with very severe to the iotic changes in the parenchymatous organs with very severe to the iotic changes in the parenchymatous organs with very severe to the iotic changes in the parenchymatous organs with very severe to the iotic changes in the parenchymatous organs with very severe to the iotic changes in the parenchymatous organs with very severe to the iotic changes in the parenchymatous organs with very severe to the iotic changes in the parenchymatous organs with very severe to the iotic changes in the parenchymatous organs with very severe to the iotic changes in the parenchymatous organs with very severe to the iotic changes in the parenchymatous organs with very severe to the iotic changes in the parenchymatous organs with very severe to the iotic changes in the parenchymatous organs with very severe to the iotic changes in the io	tence of
uppression of spermatogenesis and disappose uppression of spermat	

L 34128-65

ACCESSION NR: AT5006133

atrophic, degenerative, and regenerative processes in the parenchymatous organs. The hematopoietic tissue of bone marrow exhibited a predominance of the restorative processes while lymphoid tissue at this time reflected the processes of death and new formation of lymphoid cells, the former predominating. Spermatogenesis had ceased and degenerative changes were noted in renal parenchyma (granular degeneration and necrosis of the epithelium of the convoluted tubules. Inflammatory processes of bacterial origin could be seen in all the animals.

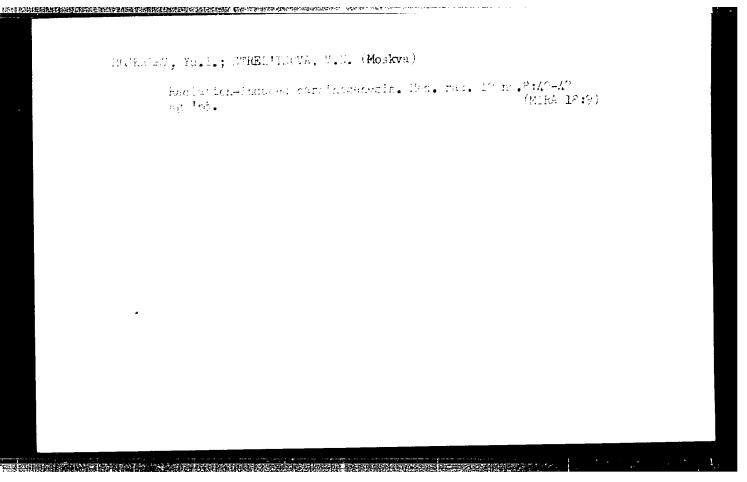
The chronic stage of radiation injury by  $Nb^{95}$  (1.1, 2.25, 4.5, and 6.3  $\mu$ c/g) was characterized by the formation of benign and malignant tumors of the mammary glands, small intestine, subcutaneous hematopoietic organs (reticuloendotheliosis) in 25% of the rats that survived more than 200 days, or in 17% of all the experimental animals (half the tumors developed after intraperitoneal injection of 6.3  $\mu$ c/g); abnormally high hyperplasia of the reticuloendothelial elements of bone marrow, spleen, and liver; occasional cases of reticulosarcomatosis; suppression of spermatogenesis. Orig. art. has: 23 figures, 1 table.

ASSOCIATION: none

Card 2/3

POLUBOYARINOVA, Z.I.; STREL'TSOVA, V.N.

Mechanism of functional and morphological renal changes in radiation
Mechanism (Po<sup>2</sup>10) in rats treated with unithiol. Med. rad. 9 no.7:22sickness (Po<sup>2</sup>10) in rats treated with unithiol. Med. rad. 9 no.7:2237 Jl '64.



Dyshormonal tumors in dogs following the administration of strontium-90. Vop. onk. 11 no.12:45-48 \*65.

THE PROPERTY OF THE PROPERTY O

L 03773-67 EWT(m) GD SOURCE CODE: UR/0000/66/000/000/0202/0214  ACC NRi AT6029631
AUTHOR: Petrovich, I. K.; Moskalev, Yu. I.; Strel'tsova, V. N.
OPC: none
TITLE: Dose-effect relationships for 120-Mev protons observed during long-term experiments
SOURCE: Voprosy obshchey radiobiologii (Problems of general radiobiology)
TOPIC TAGS: proton radiation biologic effect remainded from the proton of 120-Mey
ABSTRACT: Experiments were conducted to determine the object of very irradiated protons, which has not been studied previously. Ten groups of rats 3—4 months old were irradiated protons, which has not been studied previously. Ten groups of rats 3—4 months old were irradiated protons, which has not been studied previously. Ten groups of rats 3—4 months old were irradiated protons, which has not been studied previously. Ten groups of rats 3—4 months old were irradiated protons, which has not been studied previously. Ten groups of rats 3—4 months old were irradiated protons, which has not been studied previously. Ten groups of rats 3—4 months old were irradiated protons, which has not been studied previously. Ten groups of rats 3—4 months old were irradiated protons, which has not been studied previously. Ten groups of rats 3—4 months old were irradiated protons, which has not been studied previously. Ten groups of rats 3—4 months old were irradiated protons, which has not been studied previously. Ten groups of rats 3—4 months old were irradiated protons are protons of the
uniformity of irradiation. Inc long-term influence: dependence of length of life examined from the standpoint of long-term influence: dependence of length of life examined from the standpoint of long-term influence: dependence of length of life examined from the standpoint of long-term influence: dependence of length of life examined from the standpoint of long-term influence: dependence of length of life examined from the standpoint of long-term influence: dependence of length of life examined from the standpoint of long-term influence: dependence of length of life examined from the standpoint of long-term influence: dependence of length of life examined from the standpoint of long-term influence: dependence of length of life examined from the standpoint of long-term influence: dependence of length of long-term influence in length of long-term in length of long-term influence i
and character of tumors. Experimental results showed that the last and the last and character of tumors. Experimental results showed that the last and the last and females and females for a given dose, except in the remote aftereffect equivalent in males and females for a given dose, except in the remote aftereffect
Card 1/3

L 03773-67

ACC NR: AT6029631

只是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们们就是我们的一个人,我们们就是我们的一个人,我们们

period (480 and 600 days), when females were more radiosensitive due to neoplasms in mammary and other secretory glands. It was found that 120-Mev protons have the same RBE as 500-Mev protons, which is approximately 0.7 as compared with gamma-rays. The average lengths of life of animals irradiated with various doses of 120-Mev protons average lengths of life of animals irradiated with various doses of 120-Mev protons are shown in Table 1. The number of animals dying in a given period increases with

Table 1. Average length of life of rats dying in later periods of the experiment (after 4 months) after irradiation with 120-Mey protons

,	Average length of life, days	
rad	Male	Female
0 10 50 100 200 400 600 700 800	537±53 567±51 657±76 530±37 574±67 495±47 466±57 — 319±14	560±25 484±53 578±41 477±35 549±45 412±29 443±29 467±49 363±53

Card 2/3

<u>L 03773-57</u>

ACC NR: AT6029631

0

increasing dose. However, the average length of life of rats dying in this period does not depend on the dose: for example, the average length of life of rats dying 16-30 days after irradiation with doses of 400, 600, 700 and 800 rad was 23, 22, 22, and 23 days, respectively. Neutropenia and lymphocytopenia were noted in the early postradiation period, together with a considerable drop in erythrocyte content with doses from 700-1000 rad. The highest incidence of tumor formation in irradiated nnimals was noted in the following organs and tissues: mammary glands, hematopoietic tissue, thyroid gland, adrenal glands, subcutaneous cellular tissue, kidneys, bones, uterus, thymus, and prostate gland. A higher frequency of mammary-gland tumors was observed in females irradiated with 50-600 rad of protons than in the controls. Furthermore, the total frequency of thyroid tumors in irradiated male and female rats (doses of 10-800 rad) was found to be 9.8%, which is ten times higher than the control rate. Complete data are lacking to establish the relationship of dose to frequency of occurrence of tumors in all tissues. Orig. art. has: 4 tables and [JS] 8 figures.

SUB CODE: 06/ SUBM DATE: 23Apr66/ ORIG 004/ OTH REF: 001/ ATD PRESS: 5064

Card 3/3

ACC NR. AP6033868

SOURCE CODE: UR/0205/66/006/005/0660/0665

AUTHOR: Strel'tsova, V. N.; Moskalev, Yu. I.

 $T_{ij}$ 

ORG: none

TITLE: The blastomogenic effect of 120-Mev protons

SOURCE: Radiobiologiya, v. 6, no. 5, 1966, 660-665

TOPIC TAGS: proton radiation biologic effect, radiation tissue effect, rat,

ABSTRACT: In order to study the blastomogenic effect of 120-MeV protons in the dose range 10—800 rad, Wistar rats were irradiated once with protons from the OIYaI synchrocyclotron at Dubna. The dose rate was 0.3 rad/sec. Experimental results showed that in proton-irradiated rats the frequency of appearance of both benign and malignant tumors in the following tissues was higher than in controls: mammary glands, hemogenic tissue, thyroid gland, adrenals, hypodermic tissue, kidneys, bones, uterus, thymus, and prostate gland. It was observed that in female rats the incidence of tumors and of multiple neoplasms was considerably higher in both irradiated and control groups than corresponding rates for male rats. Of course, the high incidence of neoplasms in females is connected with the sensitivity of mammary glands, hypophysis, ovaries, and uterus to tumor formation. More mammary tumors appeared in female rats irradiated with 50—600 rad, and tumors developed

Card 1/2

UDC: 539.125.4:616.006.04

L 04575-67

ACC NR: AP6033868

大学的一种,这种一种,可以是是大学的一种,但是是一种的人,但是是一种的人,但是是一种的人,但是一种的人,可以是一种的人,可以是一种的人,可以是一种的人,可以是一

O

faster than in controls (7 months in experimental animals and 12 months in controls). The incidence of leukosis in irradiated males and females (doses 200-400 rad) increased to 11.4%, as compared with 1.7% in controls. It was established that the dose required to double the spontaneous incidence of leukosis in rats is 50 rad. The highest incidence of pituitary tumors in female rats (34.3%) was observed with radiation doses of 200 rad, and the highest incidence for males (42%), after irradiation with 50 rad. With doses above these levels, the incidence of pituitary tumors dropped in both males and females. Data for the other tissues and organs studied are: incidence of adrenal tumors increased with 100 rad of protons or more, thyroid tumors--25-50 rad, kidney tumors--600 rad, and tumors of the gastrointestinal tract 100-600 rad. Orig. art. has: 5 figures and 1 table.

SUB CODE: 06/ SUBM DATE: 08Apr65/ ORIG REF: 005/ OTH REF: 001/ ATD PRESS: 5100

Card 2/2 vmb

Mor., Inst. Microbiology, Dept. Biol. Sci., Acal. Sci., -c1948-.
Mor., Central State Sci. Testing Controlling Inst. Eacteriel.
Frequentions im. Torasevich, Moscow, 1947. "The Nature of a
Bacteriophage," Mikrobiologiya, 17, No. 4, 1948; "... IV.
The lytic Activity of the Racteriophage as Indicating the Condition
of the Phagocytes," ibid., No. 6, 1948.

ACTION OF MERCHANISM CONTROL OF THE SECOND S

STEELTSONA, Ye. A.

USSR/Physics - Distribution Functions

FD-617

Card 1/1

: Pub. 146-7/18

Author

: Strel'tsova, Ye. A.

Title

: Distribution functions for systems with Coulomb interaction

Periodical

: Zhur. eksp. i teor. fiz. 26, 173-178, February 1954

Abstract

: Sets up and solves the integral equations for the molecular functions of distribution for a system with Coulomb forces. The solution of this problem is based on the application of methods of asymptotic power expansions of a specially chosen small parameter, these expansions having been worked out previously by N. N. Bogolyubov.

Institution : Kiev Technological Inst of Light Industry

Submitted

: 9 October 51; After corrections: 6 November 1953

### CIA-RDP86-00513R001653520011-7 "APPROVED FOR RELEASE: 08/26/2000 THE PROPERTY OF THE PROPERTY O

STRELTSOVA, YEA

Strel'tsova, Ye. A.

20-5-28/48

AUTHOR: TITLE:

Kinetic Equations in the Theory of Electrolytes ( Kinetiches-

kiye uravneniya v teorii elektrolitov).

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 116, Nr 5, pp. 820-822 (USSR)

ABSTRACT:

The present works investigates the general problem of the determination of kinetic equations for the physical distribution of probabilities for a certain position of the particles present in a liquid. These particles are in interaction with one another by a prefixed potential. The interaction of the particles with the liquid is represented by means of a certain stochastic process of the diffusion type. The problem formed here is solved by means of the static method of N. N. Bogolyubov. In this method a number of distribution functions is used for the groups of s particles in the case of random distribution of the residual total number of N - s particles instead of the Gibb's (Gibbs) distribution function of all N particles of the system. The general scheme is used with a strong electrolyte. As equations of first approximation the known equations of Onsager (Onzager) are obtained. The course of the

Card 1/2

Kinetic Equations in the Theory of Electrolytes.

20-5-28/48

calculation is shown. The method discussed can also be applied for the determination of equations of higher

approximation. There are 4 references, 2 of which are Slavic.

ASSOCIATION: Kiyev Light Industry Technological Institute (Kiyevskiy tekhnologicheskiy institut legkoy promyshlen-

nosti).

May 7, 1957, by N. N. Bogolyubov, Academician PRESENTED:

April 27, 1957. SUBMITTED:

Library of Congress AVAILABLE:

Card 2/2

#### CIA-RDP86-00513R001653520011-7 "APPROVED FOR RELEASE: 08/26/2000

Glazzan, fa. M., D. Lana, I. M., Strel'tsova, Ye. A., 20-117-5-29/54 AUTHORS:

The Antagonism of lons in the Coagulation of Lyophone Belo by TITLE:

Electrolytes (Ob antagonizme ionov pri koaguljatsii liofobnykh

zoley elektrolitami).

Doklady AN SSSR, 1957, Vol. 117, Nr 5, pp. 829-832 (USSR) PERIODICAL:

In a preliminary paper of the authors (reference 1) it was shown, that on the coagolation of lyophobe sols by a mixture of two ABSTRACT:

symmetric electrolytes of the type 1 - 1 + 2 - 2 the symmetric electrolytes of the type 1 - 1 + 2 - 2 the symmetric electrolytes of the type 1 - 1 + 2 - 2 the symmetric electrolytes of the type 1 - 1 + 2 - 2 the symmetric electrolytes of the type 1 - 1 + 2 - 2 the symmetric electrolytes of the type 1 - 1 + 2 - 2 the symmetric electrolytes of the type 1 - 1 + 2 - 2 the symmetric electrolytes of the type 1 - 1 + 2 - 2 the symmetric electrolytes of the type 1 - 1 + 2 - 2 the symmetric electrolytes of the type 1 - 1 + 2 - 2 the symmetric electrolytes of the type 1 - 1 + 2 - 2 the symmetric electrolytes of the type 1 - 1 + 2 - 2 the symmetric electrolytes of the type 1 - 1 + 2 - 2 the symmetric electrolytes of the type 1 - 1 + 2 - 2 the symmetric electrolytes of the type 1 - 1 + 2 - 2 the symmetric electrolytes electr effect must be taken into consideration almost in the whole range of their concentrations. At the same time the supposition was pronounced, that in the case of a differing composition of the electrolytes the computations may furnish quite different results. The present investigation is destined to examine the correctness or this assumption. The authors conducted computations analoguous to the ones mentioned in the preliminary paper, especially for the case of the congulation of a sol by a mixture of electrolytes of the type  $1_2$  - 2 + 2 - 2. At first a differential equation for the electrolytic potential in an arbitrary point of the solution is given. This potential Y is then, for the sake of convenience, re-

placed by a dimensionless potential. Besides, the sol is here supposed to be strongly charged. The whole range of the possible con-

centrations n<sub>1</sub> and n<sub>2</sub> is of identical interest for the problem Card 1/2

The Antagonism of lons in the Coagalation of Lyophobe Sols by 20-117-5 -29/54 Electrolytes.

investigated here. The parameter n<sub>4</sub> is here considered to be infinitely small, and it is sufficient to break off the series exransion with respect to n1 after the first term. Then formulae corresponding to this approximation are written down. The course of the computation is followed step by step and shows the subsequent results; The rules of the coagulation of lyophobe sols by mixture of electrolytes of the type 1 - 1 +2 -2 and 12 -2 +2 - 2 are opposed to each other in a qualitative sense. In the first case the synergism is substantiated theoretically and in the second case the theory leads to a sharply pronounced antagonism. In the coagulation of lyophobe colloides there must be distinguished two types of antagonisms: 1) An antagonism connected with the competition for the adsorption places on the surface of the colloidal particles. 2) An antagonism caused by the electrostatic interaction of the ions in the volume of the solution and in the electric field of the colloidal particles. There are 3 references, 2 of which are blavic.

PRESENTED:

June1o, 1957, by P. A. Rebinder, Academician

G MTTTTED:

J. .... 7. 1957

Card 2/2

69-58-2 -4/23

AUTHORS:

Glazman, Yu.M.; Dykman, I.M.; Strel'tsova, Ye.A.

TITLE:

The Coagulation of Lyophobic Sols by the Action of Electrolyte Mixtures. Communication 2. (O koagulyatsii liofobnykh zoley pri deystvii smesey elektrolitov. Soobshcheniye 2)

PERIODICAL:

Kolloidnyy zhurnal, 1958, Vol XX, Nr 2, pp 149-158 (USSR)

ABSTRACT:

During coagulation of lyophobic sols, caused by the mixture of two symmetrical electrolytes of the 1-1+2-2 type, a synergetic effect takes place within their concentration range. The action of these two electrolytes is accompanied by two contradicting factors. Synergism is caused by the addition of the electrolyte and is connected with the compression of a diffused ion atmosphere. A tendency toward antagonism is caused by the screening of the antiions of the electrical field. Electrolytes of the 12-2+2-2 type have also been considered. The principal difference of the two types consists in the fact that the side ion of the first of the two electrolytes is bivalent. The theoretical calculation indicates antagonism, whereas in the 1-1+2-2 type it indicates synergism. There are two types of antagonism during the coagulation of lyophobic colloids: 1) the antagonism between

Card 1/2

69-58-2 -4/23

The Coagulation of Lyophobic Sols by the Action of Electrolyte Mixtures. Communication 2

coagulating ions associated with competition for the sites of adsorption on the surface of the colloid particles: 2) the antagonism due to the mutual electrostatic interaction of the ions in the bulk of the bolution and in the electric-

al field of the colloid particles.

There are 8 references, 6 of which are Soviet, 1 French and 1 German.

ASSOCIATION:

Kiyevskiy tekhnologicheskiy institut lägkoy promyshlennosti (Kiyev Technological Institute of Light Industry)

SUBMITTED:

February 23, 1957

1. Chemical compounds -- Coagulation 2. Electrolytic compounds

--Applications

Card 2/2

Card 1/1

 $\mathbf{1}_{0}(1), \mathbb{P}(2)$ 307/41-11-1-7/18 Strel'tsova, Ye.A. (Kiyev) HIHOR: Unsteady Processes in the Electrolytic Theory 71E: TWELFILMAR: Ukrainskiy matematicheskiy zhurnal, 1959, Vol 11, hr 1, pp 63-92 (USSE) The author seeks kinetic equations for the distribution of  $z \sim$ MATERIAL STREET cituation probabilities of particles being in a fluid and to interaction of which is described by a given potential. The interaction with the fluid is understood as a stochastic process with a diffusion type. The problem is solved according to the method of M. T. Bogolyubov Ref 3 7. The developed general schape of solution is applied in the case of a strong electrolyte, as the first approximation there appear the well-known equations of Onsager. There are 5 references, 2 of which are Soviet, and ? German. SUBMITTED: May 18, 1957

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653520011-7"

STREL'TSOVA, Ye.A.

Determination of the electrophoretic velocity of an ion by the method of distribution of functions. Dokl.AN SSSR 144 no.2: 300-302 My '62. (MIRA 15:5)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti. Predstavleno akademikom N.N.Bogolyubovym.

(Ions---Migration and velocity) (Electrophoresis)

```
STREETISONA, Ye.A. [Streetitsova, O.C.]

Electroconductivity of sclutions of strong electrolytes. Pop.

AN URSk no.11:1463-1469 163. (MEA 17:12)

L. Kiyevskiy tekhnologicheskiy institut promyshlennosti.
```

IJP(c) L 07177-67 SOURCE CODE: UR/0041/66/018/005/0069/9083 ACC NR: AP6031191 AUTHOR: Strel'tsova, Ye. A. (Kiev) ORG: none functions for systems of charged particles, taking short range TITLE: Distribution forces into account SOURCE: Ukrainskiy matematicheskiy zhurnal, v. 18, no. 5, 1966, 69-83 TOPIC TAGS: charged particle, asymptotic solution, distribution function ABSTRACT: The object of this article is to provide the foundation of a general method for the asymptotic solution in statistical mechanics of classical systems allowing the handling of both Coulomb and short range forces. A system of N particles of m different kinds contained in a volume V with a binary potential acting between the particles is considered. The method of Bogolyubov is followed in defining the functions  $F_{a_1...a_s}(q_1...q_s) = V^s \int ... \int D_N dq_{s+1}... dq_N$ 

where  $D_N$  is the Gibbs function and the  $q_i$  are the position coordinates of the ith particle. An equation for the F functions involving functional derivatives of the functional

Card 1/2

U 071/7-6/

ACC NR: AP6031191

$$L_{N}(u_{1}\ldots u_{m})=\int \ldots \int D_{N}\prod_{\substack{1\leq b'\leq m\\1\leq l\leq N_{N'}}} \left(1+\frac{V}{N_{b'}}\cdot u_{b'}\cdot (q_{l})\right)dq_{1}\ldots dq_{N'}$$

defined on a suitably restricted class of functions  $oldsymbol{u}$  is obtained. By means of this equation, functional expansions for the F functions are obtained. Solutions for the low order terms in these functional expansions are presented. The final result contains purely Coulomb terms and terms in the short range potential to the second order. The question of the mathematical foundation of these procedures is not considered. In conclusion, the author thanks N. N. Bogolyubov for discussing the results. Orig. art. has: 59 formulas.

SUB CODE: 12,20/ SUBM DATE: 30Dec65/ ORIG REF: 015/ OTH REF: 003

Card 2/2 eg/2

135-58-8-19/20

AUTHOR:

Strel'tsova, Ye. L., Head of the Technical Information

Section

TITLE:

The Sverdlovsk Regional Conference on Gas-Flame Metal Working and Electric-Gas Processes (Sverdlovskoye oblastnoye soveshchaniye po gazoplamennoy obrabotke metallov i

clektrogazovym protsessam)

PERIODICAL:

Svarochnoye proizvodstvo, 1958, Nr 8, pp 46 - 47 (USSR)

ABSTRACT:

A regional Conference on work done in the field of gasflame metal working and electric-gas processes was convened at Sverdlovsk from May 14 - 16 by VNIIAvtogen, together with the welding section of the Sverdlovsk NTO section of Mashprom, the Ural House of Engineering and the Technical Administration of the Sverdlovsk sovnarkhoz. About 200 representatives from Sverdlovsk enterprises and other Ural and Siberian sovnarkhozes were present. The Conference was opened by S. I. Mikhaylov, Candidate of Technical Sciences, with er introductory report on problems relating to the improvement of gas-flame working of metals and new efficient processes connected with industrial reorganization. The Conference then heard the following reports: I.A. Antonov, Candidate of Technical Sciences, on the state of gas-flame working in the USSR and

Card 1/3

: 135-58-8-19/20

The Sverdlovsk Regional Conference on Gas-Flame Ketal Working and Electric-Gas Processes

abroad; S. G. Guzov, Engineer, on new machines and equipment for oxygen cutting; I. V. Speshkov, engineer, on the application of gas-flame metal working at Uralmashzavod; I. S. Shapiro, engineer, on new methods of metal cutting; I. S. Shapiro, engineer, on air-arc metal cutting; G. V. Yu. A. Maslov, engineer, on work done in the field of gas-flame metal working at Uralkhimmashzavod; V. K. Deykun, flame metal working at Uralkhimmashzavod; V. K. Deykun, engineer, on a "UGV" device for hardening small-module gears; G. V. Proskuryakov on manual and machine oxygen cutting; G. A. Asinovskaya, engineer, on automation of cutting; G. A. Asinovskaya, engineer, on oxygen-flux and oxygen-sand cutting; Ye. V. Antoshin, engineer, on plastic, ceramic and metal coating; V. V. Bykov, chief

Card 2/3

135-58-8-19/20

The Sverdlovsk Regional Conference on Gas-Flame Metal Working and Electric-Gas Processes

到一种规模的特殊是是一种特别的人,但是一种人的人,但是一种人的人,但是一种人的人,但是一种人的人,但是一种人的人,但是一种人的人,但是一种人的人,但是一种人的人

technologist, on new equipment produced by the first Moscow Autogenous Plant; V. Ye. Kuryshev on new generator and kerosene-cutter designs. The Conference decided to take measures to develop gas-flame metal working.

ASSOCIATION: VNIIAvtogen

1. Welding--Conference

Card 3/3

SOV/137-58-10-21807

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10 p 193 (USSR)

AUTHORS: Strel'tsova, Ye.M., Petrashen!, V. L.

TITLE: Coprecipitation in the System: Basic Dye Metallic Ion -

Halogenide (Soosazhdeniye v sistemet osno nov krasitel -ion

metalla - galogenid)

PERIODICAL: Tr. Novocherk, politekhn. in ta, 1958. Vol 69/83, pp 153-154

ABSTRACT: To 200 cc of acidulated (0, IN HCl or H, SO<sub>4</sub>) solution contain-

ing 1.5  $\gamma$  Cu are added: NH<sub>4</sub> SCN (up to 0.02 mole/ $\ell$ ) or NH<sub>4</sub>I (up to 0.033 mole/ $\ell$ ) and drop by drop, with stirring, 20 cc of 1% solution of methyl violet. After 30 min the precipitate is filtered off, washed, and incinerated at  $450^{\circ}$ C. The precipitation of Cu is 97 - 100% complete. Fe<sup>3+</sup>, Cd<sup>2+</sup>, Ni<sup>2+</sup>, Ag<sup>+</sup>, Zn<sup>2+</sup>, Sb<sup>3+</sup>, and Sn<sup>2+</sup> are precipitated together with Cu.

Cu does not precipitate in the presence of oxidizers.

1. Copper---Precipitation 2. Complex cons---Precipitation P. K.

3. Methyl violet-Applications

Card 1/1