USSR / Microbiology. Microbes Pathogenic to Man and Animals. Bacteria of the In-

testinal Group.

CONTRACTOR SEED MANAGEMENT CONTRACTOR CONTRA

Abs Jour

: Ref. Zhur - Biol., No. 21, 1958, No 95151

Author

Ignat'yeva. A. A.

Inst

: Voronezh Medical Institute.

Title

: Experimental Study of Antibiotic Vaccines

From a Typhoid Carrier.

Orig Pub

: Avtoref. diss. kand. med. n., Voronezhsk.

med. in-t, Voronezh, 1958.

Abstract

: No abstract

Card 1/1

CIA-RDP86-00513R000518410013-8" APPROVED FOR RELEASE: 04/03/2001

# 

ICNAT'YEVA. A K	-	 	H/5 741.2 .12

Operativnoye planirovaniye proizvodstva na savodakh sel'skokhozyaistvennogo mashinostroyeniya (tipovoy proyekt) (Operational planning of production in agricultural machinery factories) Moskva, Mashgiz, 1953.

221 p. tables.

"Ferechen' ispol'sovennoy literatury i istochnikov": p. (219)

At head of title (Russia) Ministerstvo Mashinostroyeniya.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8"

IGNATIYEVA, A. M.; LOYTER, E. E.

Minimum calculated cost of electric power transmission lines with different carrying capacity and length. Izv. AN Kasakh. SSR. Ser. energ. no.2:11-18 62. (MIRA 16:1)

。这一个大学,我们就是我们的一个人,我们就是这个人的,我们就是一个人的人,这个人的人,这个人的人,我们也没有的人的,我们就是这些人的,我们也是一个人的人,我们就

(Electric lines-Overhead)
(Electric power distribution)

# ALEKSEYEV, A.N.; ICNAT'YEVA, A.P., laborant

Toxicity of some organic phosphoric insecticides for the larvae of blood-sucking blackflies. Med. paraz. i paraz. bol. 32 no.5: 546-548 S-0'63 (MIRA 16:12)

l. Iz TSentral'nogo nauchmo-issledovatel'skogo dezinfektsionno-go instituta (dir. - prof. V.I. Vashkov) Ministerstva zdravo-okhraneniya SSSR.

## "APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000518410013-8

DALIN, Valeriy Mikitich, kandidat tekhnicheskikh nauk; INWATIVEL, LATERSOTA, A.G., isdatel'skiy redaktor; FURHLIKOVA, W.A., tekhnicheskiy redaktor.

[Investigating heating systems of airtight cabins of passenger planes], Iseledovanis sistem panel'nogo obogreva germeticheskikh kabin passahirskikh samoletov. Moskva, Gos. isd-vo obor. promyshl., 1957. 37 p. (Moscow. Aviatsionnyi institut. Trudy, mo.80).

(Airplanes-Heating and ventillation)

KINDER STATE

CHERNYAYEV, M.P.; IGNAT'YEVA, A.V. redaktor; SHIKIN, S.T., tekhnicheskiy redaktor

[Collection of problems on synthetic geometry; manual for pedagogical institutes] Sbornik sadach po sinteticheskoi geometrii; posobie dlia pedagogicheskikh institutov. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1954. 72 p. (MIRA 8:4) (Geometry--Problems, exercises, etc.)

IGNAT'YEVA, A.V.

IGNAT'YEVA, A.V. -- "On a Specific Presentation of the Functions of Many Variables."

(Dissertations For Degrees In Science And Engineering Defended
At USSR Higher Educational Institutions) (29) Moscow Oblast'
Pedagogical Inst, Min of Education RSFSR, Moscow, 1955

SO: Knizhnaya Letopis' No 29, 16 July 1955

\* For the Degree of Candidate in Physicomathematical Sciences

KISELEV, A.P.; IGHAT'YEVA, A.V., redaktor; MIRONTSEVA, M.I., tekhnicheskiy redaktor.

[Algebra; textbook for classes 6-8 of the seven-year and secondary school] Algebra; uchebnik dlia 6-8 klassov semiletnei i srednei shkoly. Izd. 29-e Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR. Pt. 1. 1955. 111 p. (MLRA 8:7) (Algebra)

STAL'KOV, Grigoriy Alekseyevich; IGNAT'YEVA, A.V., redaktor; DZHATIYKV, S.G., tekhnicheskiy redakter

> [Mental arithmetic] Ustnyi schet; posobie dlia uchashchikhsia srednei shkoly. Moskva, Gos.uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1955. 126 p. (Arithmetic, Mental)

DORF, Potr Yakovlevich; IGNAT' YEVA, A.V., redaktor; RYBIN, I.V., tekhnicheskiy redaktor

[Visual aids in mathematics and ways of using them; teacher's manual] Nagliadnye posobiia po matematike i metodika ikh prememeniia; posobie dlia uchitelei. Moskva, Gos. uchebno-pedagog. izdvo Ministerstva prosveshcheniia RSFSR, 1955. 157 p. (MIRA 8:7) (Visual instruction) (Hathematics—Study and teaching)

KISELEV, Andrey Petrovich; IGHAT'YEVA, A.V., redaktor; HAKHOVA, N.N., tekhnicheskiy redaktor

[Algebra; textbook for classes 8-10 of the secondary schools]
Uchebnik dlia 8-10 klassov srednei shkoly. Izd. 32-e. Moskva, Gos.
uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR. Pt.2.
1955. 231 p.
(Algebra)

KUTUZOV, Boris Veniaminovich; IGNAT'YEVA, A.V., redaktor; MAKHOVA, N.N., tekhnichoskiy redaktor

[Geometry; a textbook for normal schools] Geometriia; posobie dlia pedagogicheskikh i uchitel skikh institutov. Izd. 2-e. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1955.

295 p.

(Geometry)

TROLOV, Nikolay Andrianovich; IGNAT'YEVA.A.V., redaktor; MAKHOVA, N.N., tekhnicheskiy redaktor

[Differential and integral calculus; textbook for pedagogical institutes] Differentsial noe i integral noe ischislenie; uchebnoe posobie dlia pedagogicheskikh institutov. Moskva. Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1955. 339 p. (MIRA 9:4) (Calculus, Differential) (Calculus, Integral)

GONCHAROV, Vasiliy Leonidovich; IGNAT'YEVA, A.V., redaktor; MAKHOVA, N.N. tekhnicheskiy redaktor.

[Theory of functions of complex variables; textbook for pedagogical institutes.] Teoriia funktsii kompleksnogo peremennogo; uchebnoe posobie dlia pedagogicheskikh institutov. Moskva, Gos.uchegnopedagog.isd-vo Ministerstva prosveshcheniia RSFSR, 1955. 350 p. (Functions of complex variables) (MLRA 8:11)

JOHNAT YELA, A.V

## PHASE I BOOK EXPLOITATION

350

Vedrov, V. S., Romanov, G. L., and Surina, V. N.

Samolet kak ob"yekt regulirovaniya; strukturnyye skhemy uravneniy vozmushchennogo dvizheniya samoleta (The Control of Aircraft; Block Diagrams of Equations for Disturbed Motions of an Aircraft) Moscow, Oborongiz, 1957. 42 p. 1,020 copies printed.

Sponsoring Agency: USSR Ministerstvo aviatsionnoy promyshlennosti (Its Trudy, Nr 74)

Ed.: Ignat'yeva, A. V.; Tech Ed.: Lebedeva, L. A.

PURPOSE: Presentation of regults of scientific research.

Card 1/5

The Control of Aircraft (cont.)

350

COVERAGE:

This paper treats the representation of the equations of disturbed motion of an aircraft in terms of block diagrams of closed-loop systems with first- and second-order components, where the input and output signals have a definite physical meaning. The characteristics of the individual components and their variation with aircraft speed and altitude are briefly analyzed. A derivation of the transfer functions in rudder and alleron control is given, and also simplified expressions for the transfer functions in relation to the frequency band, which corresponds to the degeneration of the disturbed motion into simple types. The method of representing the equations of disturbed motion of an aircraft in terms of block diagrams of closed-loop systems permits ready application of the techniques of modern control theory, such as the frequencyresponse method, the theory of feedback loops, blockdiagram analysis, etc., to the analysis of aircraft motion in stability and control problems, and also makes it possible to set up simplified equations of motion as well as transfer functions for control of motion by means of control surfaces. In contrast to existing methods, which

Card 2/5

350

1

The Control of Aircraft (cont.) yield approximate transfer functions for rapid angular motions about the center of gravity, these methods readily permit obtaining approximate expressions for transfer functions for the slow motions associated with displacements of the center

of gravity. The report contains 7 tables and 15 figures.
There are 15 bibliographic references, 4 Russian, 5 American,
1 British, 4 French, and 1 Belgian. The authors express their
gratitude for valuable advice to M.A. Tayts, Doctor of Technical
Sciences, and Ye.N. Arsen'yev, Engineer.

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VOSTRETSOV, B.A.; IGNAT'YEVA, A.V. Approximation speed of analytic functions on random continua. (MIRA 11:6) Uch. sap. MOPI 57 no.4:45-50 157. (Functions, Analytic)

## "APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

Ignat'yeva, A.V., and Vostretsov, B.A. SOV/140-58-4-12/30 AUTHORS: The Representation of Functions of Several Variables With the Aid: TITLE: of Plane Waves and the Solution of the Cauchy Problem for Hyperbolic Systems (Predstavleniye funktsiy mnogikh peremennykh s pomoshch'yu ploskikh voln i resheniye zadachi Koshi dlya giperbolicheskikh sistem) PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1958, Nr 4, pp 100-112 (USSR) The paper contains a detailed rather couplete representation ABSTRACT: of the results announced in [Ref 1,2]. There are 5 references, 4 of which are Soviet, and 1 German. ASSOCIATION: Moskovskiy aviatsionnyy institut (Moscow Aviation Institute) SUBMITTED: February 17, 1958 Card 1/1

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8"

法辩论 医沙克氏试验

3/044/62/000/001/030/061 C111/C444

16.3500 16.2600

AUTHOR:

Ignatiyeva, A. V.

On a special representation of a function of several TITLE:

variables

PERIODICAL: Referativnyy zhurnal, Matematika, no. 1, 1962, 50,

abstract 1B238. ("Uch. zap. MGU", 1959, vyp. 186,

TEXT: An elementary method for the representation of a function

 $f(x_1, \ldots, x_n)$  in the form

 $\int_{\cdots+p_n^2=1} \varphi_N (x_1^{p_1+\cdots+x_n^{p_n}}) d\sigma$  $f(x_1,...,x_n) = \lim_{N\to\infty}$ 

is given; the method is applicable under relatively small suppositions on the function f. Further on the author brings an example for the application of this representation to the solution of the Cauchy problem for a linear hyperbolic system of differential equations with constant coefficients.

[Abstracter's note: Complete translation.] Card 1/1

# IONATITEVA, A.V. Special representation of functions of several variables. Uch.sap.Mosk.un. no.186[a]:235-244 159. (MIRA 13:6) (Functions of several variables)

OCHAN, Yuriy Semenovich; SHNEYDER, Vladimir Yevgen'yovich; IGNAT'YEVA,
A.V., red.; SMIRNOVA, M.I., tekhn.red.

[Mathematical analysis; textbook for teachers' institutes] Matematicheskii analiz; uchebnoe posobie dlia pedagogicheskikh institutov.

Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1961. 879 p.

(Mathematical analysis)

(Mathematical analysis)

IGNAT'YEVA, Alla Venediktovna; KRASNOSHCHEKOVA, Taisiya Ivanovna; SMIRNOV, Viktor Fedorovich; ROMANOVSKIY, P.I., prof., red.; TAL'SKIY, D.A., red.

[Course in higher mathematics] Kurs vysshei matematiki. Moskva, Vysshaia shkola, 1964. 682 p. (MIRA 18:1)

KOZHEVNIKOV, Naum losifovich; K.ASNOSECHEKOVA, Taisiva Ivar and SHISHKIN, Nikolay Tefinovic IG.AT'TEVA, A.V., red.;

MONOZOVA, 1.Ye., red.

[Fourier series and the Fourier integral. Field theory.
Analytic and special functions. Leplace transformation]
Riady integral Fur'e. Teoriia polia. Analiticheski i spetsial'nye funktsii. Preobrazovanie Leplaca. Moskva, Nauka, 1964. 183 p.

(MIRA 18:2)

## "APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

L 33334-66 EWT(m)/EWP(j) RM

ACC NR: AP6021776 SOURCE CODE: UR/0413/66/000/012/0036/0036

INVENTOR: Kuznetsov, Ye. V.; Ignat'yeva, E. K.; Kostromina, S. Ya.

21 13

ORG: none

TITLE: Preparative method for nitrogen and phosphorus-containing organotitanium compounds. Class 12, No. 182722 [announced by Kazan Chemical Technology Institute im. S. M. Kiroy (Kazanskiy khimiko-tekhnologicheskiy institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 36

TOPIC TAGS: organotitanium compound, nitrogen containing organotitanium compound, phosphorus containing organotitanium compound, titanium compound

ABSTRACT: An Author Certificate has been issued for a preparative method for nitrogen and phosphorus-containing organotitanium compounds. Bis-(2-hydroxyethoxy)-bis-(aminoethyl)-titanium is reacted with derivatives of methylphosphonic acid substituted in methyl in a solvent. Hydroxymethylphosphonic acid is used as a derivative of the substituted methylphosphonic acid for preparing new compounds. [BN]

SUB CODE: 07/ SUBM DATE: 03May65/ ATD PRESS:5026

Card 1/1 ULR

UDC: 547.419.1'258.2.07

IGNAT YEVA, E.K.; KUZNETSOV, Ye.V.

Interaction of acetone cyanohydrin and allyl alcohol with trialkoxystibine. Zhur.ob.khim. 33 no.2:617-622 F '63. (MIRA 16:2)

1. Kazanskiy khimiko-tekhnologicheskiy institut imeni S.M. Kirova.

(Lactonitrile) (Allyl alcohol) (Stibine)

## "APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

<u>L 34858-65</u> EWT(m)/F CCESSION NR: AP5007	EPF(c)/EWP(j) Pc-4/Pr-4 RM 159	5/0286/65/000/003/0025/0025	
AUTHOR: Kuznetsov, Yo	e. V.; Ignat'yeva, E. K.; Nerc	mova, L. Ye.	1
TITLE: Preparative me compounds. Class 12,	ethod for nitrogen- and phosph No. 167873	norus-containing organotitaniu	
SOURCE: Byulleten' i	zobreteniy i tovarnykh znakov	, no. 3, 1965, <i>7</i> 5	
			1.1.17465
TOPIC TAGS: organoti	tanium compound, titanium com	pouna	
ABSTRACT: An Author nitrogen- and phospho	Certificate has been issued f	or a preparative method for compounds. Di-β-hydroxyethyl ylolphosphine or bis(hydroxy-	
ABSTRACT: An Author nitrogen- and phospho	Certificate has been issued forus-containing organotitanium	or a preparative method for compounds. Di-β-hydroxyethyl ylolphosphine or bis(hydroxy-	
ABSTRACT: An Author nitrogen- and phosphodiethylaminotitanium methyl)phosphonic aci	Certificate has been issued forus-containing organotitanium	or a preparative method for compounds. Di-β-hydroxyethyl ylolphosphine or bis(hydroxy-	
ABSTRACT: An Author nitrogen- and phosphodiethylaminotitanium methyl)phosphonic aci	Certificate has been issued forus-containing organotitanium [sic] is treated with trimeth d in methanol with heating.	or a preparative method for compounds. Di-β-hydroxyethyl ylolphosphine or bis(hydroxy-	

LEBEDINSKIY, N.F.; OKTYABR'SKIY, P.Ya.; SMIRNOV, D.V.; VINIGRADOV, N.I.;
KUZ'MAK, B.S.; BLYAKHMAN, L.S.; RYASHCHENKO, B.R.; POLOZOV, V.R.;
SHALGIN, G.N.; MARKIN, A.A.; IGNAT'YEVA, E.P.; VOROTILOV, V.A.;
KLYUYEV, A.I., dota., otv.red.; KARPOVA, L.A., red.; YELIZAROVA,
N.A., tekhn. red.

[Hiddent potentials for increasing labor productivity in the national economy] Rezervy rosta proizvoditel nosti truda v narodnom khoziajstve. Leningrad, Izd-vo Leningr. univ., 1962. 223 p. (MIRA 16:2)

1. Leningrad. Universitet.

(Labor productivity)

tions. It is apparently influenced by contact of development of the graft involves retention or loss of pigmentation (i. e., change into cornea) and dedescribed in this instance deals with transplantasuphibia develops into a cornea on transplantation Upon Transplantation Into the Eye of Tailless the graft with old skin. pends on the age of the recipient and mech condibut also skin tissue surrounding the eye. Further graft is influenced not only by tissue of the eye, USSR/Biology - Restoration of Organs eye of another tadpole in such a manner that the tion of skin from the back of a tadpole into the could be carried out on rata. of which had been extirpated. into the eye of a larva or adult animal the cornea V. V. Popov showed that young (larval) skin of Amphibia," G. M. Ignat'yeva USSR/Biology - Restoration of Organs "Dok Ak Nauk SSSR" Vol LXXXI, No 4, pp 701-704 Modification of the Histological Structure of Skin (Contd) The series of expts Similar operations Dec Dec 51 202120 202T20

## IGNAT'YEVA, G.M.

Formation of the retina in tadpole from the skin of Triton taeniatus larvae. Doklady Akad. nauk SSSR 82 no.1:167-170 1 Jan 52. (CLML 21:5)

- 1. Presented by Academician A.I. Abrikosov 9 November 1951.
  2. Institute of Animal Morphology imeni A.M. Severtsov, Academy of
- Sciences USSR.

CIA-RDP86-00513R000518410013-8" APPROVED FOR RELEASE: 04/03/2001

### "APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

GNATYEVA, G.M.

USER/ Medicine - Experimental morphology

Card 1/1

Pub. 22 - 49/50

Authors

1 Ignatyeva, G. M.

Title

! Cornea revivification of tailless amphibians during its partial or complete removal

Periodical : Dok. AN SSSR 100/1, 187-190, Jan. 1, 1955

Abstract

A new method of cornea revivification during partial or complete removal of the former was tested on several tailless amphibians (frogs), and the results obtained are described. Mine references: 6 USSR, 1 Japanese and 2 German (1915-1952). Illustrations.

Institution : Acad. of Sc., USSR, The A. A. Severtsov Institute of Animal Morphology

Presented by : Academician A. I. Abrikosov, October 23, 1954

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8"

## "APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

IGNATGEVA, 6.M.

USSR/Medicine - Experimental morphology

Card 1/1

Pub. 22 - 49/52

Authors

Ignatyeva, G. M.

Title

Cornea transplantation of adult frogs with larval skin

Periodical

Dok. AN SSSR 100/2, 385-388, Jan 11, 1955

Abstract 1

Experimental data are presented on the tranplantation of adult frog cornea with larval skin. The results obtained from such operations are described. Eight USSR references (1947-1955). Table; Illustrations.

Institution :

Academy of Sciences USSR, The A. N. Severtsov Institute of Animal

Morphology

Presented by:

Academician A. I. Abrikosov, October 23, 1954

## "APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

IQNATYEVA Q.M

USSR/ Biology - Embryology

Card 1/1 Pub. 22 - 45/47

Authors : Ignatyeva, G. M.

Title : Formation of a hatching ferment in embryes of sturgeon

Pariodical : Dok. AN SSER 100/6, 1199-1202, Feb 21, 1955

Abstract: The spawn of Black and Azov Sea sturgeon incubated in industrial conditions was investigated to determine the possibility of formation of a hatching fermentation in the embryos of the fish. Results obtained are described. Six references: 5 USER and 1 French (1912-1954). Tuble.

Institution: Academy of Sciences USSR, The A. N. Severtsov Institute of Animal Morphology

Presented by : Academician 7. A. Engel gardt, November 30, 1954

USSR / General Biology. Individual Development. Embryonal Development.

B-2

: Ref Zhur - Biol., No 14, 1958, No 61897

Author

: Imat'yeva, G. M.

Inst

Title

: The Role of Membranes in Sturgeon Embryos for Secreting

Hatching Ferments.

Orig Pub

: Dokl. AN SSSR, 1956, 107, No. 3, 493-496

Abstract

: It was shown that presence of membranes does not constitute a necessary prerequisite for secretion of hatching ferments. For sturgeon and starred sturgeon embryos which were artificially freed of membranes at stages close to the enset of hatching, secreted hatching forments into the water. Existence and activity of ferments were estimated by the fact that durability of egg-indicator (embryos at early development stages) membranes diminished after they spent some time

Card 1/2

Inst. animal Morphology im A. N. Severtaor, AS USSR

IGNAT'YEVA, G.M. Individual Development USSR / General Biology.

B-4

Abs Jour

: Ref Zhur - Biol., No 12, 1958, No 52411

Author

: Ignat'eva, G. M.

Inst

: Some Conditions Affecting Sturgeon Hatching. . AS USER

Title

Orig Pub

Dokl. AN SSSR, 1956, 109, No. 6, 1222-1225

Abstract

: The effect of water novem nt (currents), oxygen regimen and embryo mobility on hatching of sturgeon fish (beluga, osetra and sevryugi) was studied. Under laboratory conditions the currents (made by rocking the embryos in flasks) stimulated the production of hatching enzymes and even hatching itself if sufficiently develope embryos were used (at stages 34-35 according to Detlar a d Ginzburg), and had no effect on embryos at earlier stage of development. Improvement of ceration conditions also helped batching. Elimination of mobility of embryos by r protization and wrethene markedly

Card 1/2

16

CIA-RDP86-00513R000518

IGNATYEVA, G. M.

ROSKIN, Grigoriy Iosifovich; LEVIESON, L. 3.; IGNAT'TEVA, G.M., red.; PARSADAHOVA, K.G., red.isdatel'stva; GAMZAYEVA, M.S., tekhn.red.

[The technique of the microscope] Mikroskopicheskaia tekhnika. Isd.3-e. Pod obshchei red.G.I.Roskina. Moskva, Gos.isd-vo (MIRA 10:12) "Sovetskaia nauka," 1957. 466 p. (Microscope- -Technique)

SOV/20-114-4-63/63

\* AUTHOR:

Ignat'yeva, G. M.

TITLE:

Morpho-Physiological Studies of the Hatching Gland in Huso huso(L.) (Morfo-fiziologicheskoye issledovaniye zhelezy vylupleniya belugi

Huso huso (L.))

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 114, Nr 4, pp. 908 - 911 (USSR)

ABSTRACT:

It was proved (references 1 - 3) that the secretion of the hatching-enzyme which loosens the solidity of membrane before hatching takes place under the control of a number of conditions which act differently according to the embryo's stage of development. As this enzyme is produced by the hatching gland, it was assumed that the differences of action of the above-mentioned conditions are in connection with the state of development of the hatching gland. Knownection with the entire development and the modification of function of this provisional organ is also of importance in fishery due to its influence upon the duration of hatching. Beside the investigation mentioned in the title the author studied the enzymatic activity of the hatching gland according to Zotin (reference 1). Embryos of the stages 25 - 35 (stages see reference 2), larvae during sporadic and mass hatchings as well as larvae on the

Card 1/4

sov/20-114-4-63/63

·Morpho-Physiological Studies of the Hatching Gland in Huso huso (L.)

1st - 7th day after hatching were fixed, dyed and microscopically studied. The results of the determinations (figure 1) show that the enzyme appears in the gland after the 28th stage. The enzymatic activity increases with the development of the embryo and reaches its maximum in the 35th stage. Then the enzyme is rapidly emptied into the perivitellin-space. The gland produces and accumulates the enzyme for still another 3 days, but this activity decreases and comes to an end on the 6th day after hatching. Certain morphological modifications of the gland correspond to the modification of the enzymatic activity. The structure and development of the gland is described in detail. In the case of larvæ in the stage of sporadic hatching the gland is almost completely free of secretion. Yolk is still contained in it (figure 3 a). Consequently the above--mentioned sec retion must either represent the hatching enzyme itself or must contain it. After hatching the number of accumulations of secretion begins to increase until the 3rd day (figure 3 b), then it decreases, but single accumulations of secretion may even be seen in a 6 days old larva (figure 3 v) in the remainders of the glandular tissue. This tissue is degraded and disintegrates. A comparison of the preparations of the hatching gland from Huso huse and Acipenser stellatus permits the conclusion that the physiological and morphological modifications of the hatching gland

Card 2/4

80V/20-114-4-63/65

Morpho-Physiological Studies of the Hatching Cland in Huso huso (L.)

of the Acipenseridae in contrast to the Teleosta are bound to certain stages of development of the entire embryo. This explains why the embryo of the Acipenseridae under different conditions leave the embryonic membranes in the same stages characteristic of the beginning of hatching. The yolk apparently serves as source of the formation of secretion, as it disappears parallel with the accumulation of secretion. As yolk is abundantly present in the hatching gland, the embryo with a quantity of secretion in the gland necessary for loosening the membrane can attain the time of hatching even under different conditions of existence (above all at varying temperatures of incubation). Thus a formation of secretion in the hatching gland which at first sight seems to be insignificant in reality proves to be a consequence of an adaptation essential for life which makes it possible for the embryos of Acipenseridae to leave the embryonic membranes in time under varying conditions of the surroundings. There are 3 figures, and 7 references, which are Slavic.

Card 3/4

### **APPROVED FOR RELEASE: 04/03/2001** CIA-RDP86-00513R000518410013-8

807/20-114-4-63/63

'Morpho-Physiological Studies of the Hatching Gland in Huso huso (L.)

ASSOCIATION: Institute for Animal Morphology, AS USSR, imeni A. N. Severtsov

(Institut morfologii zhivotny'.h'im. A. N. Severtsova Akademii nauk

SSSR)

PRESENTED:

February 20, 1957, by I. I. Shmal'gauzen, Academician

SUBMITTED:

February 12, 1957

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USSR/General Biology. Individual Development. Embryonic Development.

 $\mathbf{B}$ 

Abs Jour: Ref Zhur-Biol., No 17, 1958, 76274.

tioon/-

Author : Ignat /eva, G.M.

\* Inst Title : Morpho-Physiological Investigation of the Hatching Gland of the Starred Sturgeon at Various Incubation

Temperatures.

Orig Pub: Dokl. AN SSR, 1957, 114, No 5, 1132-1135.

Abstract: No essential differences were found in the norphology of the hatching gland in the starred sturgeon after development. The activity of the enzyme in the gland varied strongly in different groups; however, differences of activity depending

\* ENSTITUT MORFOLOGII ZHIVOTAJKH IMENI A. N. SEVERTSOVA AKADEMII : 1/2 Card NAUK SSSR.

### "APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

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USSR/General Biology. Individual Development. Embryonic Development.

Abs Jour: Ref Zhur-Diol., No 17, 1958, 76274.

on the temperature were not noted. Larvae in stages of a single brood divided into different groups possessed similar structures, but with lower temperatures of incubation, they were bigger.

Card : 2/2

5

IGNAT YEVA, G.M., Fand. biol. nauk

1. Institut morfologii zhivotnykh AN SSSR. (Sturgeone) (Embryology--Fishes) (Enzymes)

BUZNIKOV, G.A., IGHATI YEVA, G.M. (Moskva) - The second second second Hatching enzymes. Usp.sovr.biol. 46 no.3:337-356 N-D '58 (MIRA 11:12) (ENZYMES) (EMBRYOLOGY)

17(1) AUTHOR:

Ignat'yeva, G. M.

SOV/20-128-1-57/58

TITLE:

Secretion of the Hatching Ereyme in Explants of the Hatching

Gland of Acipenseridae For sy

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1, pp 212-215

(USSR)

ABSTRACT:

The secretion of the hatching enzyme is checked by some external factors mainly acting as increased movability of the embryo (Refs 1 and 7). In order to understand the function mechanism of these factors and the role of the nervous system in the process of enzyme secretion, it is important to explain the process of accumulation and secretion of the enzyme outside the organism without a connection between gland and nervous system and without an influence by external factors. For this purpose the spawns of Huso huso (L), of Acipenser guldenstadti colchicus of Marti, and of Acipenser stellatus Pall. were examined. In doing so, an explantation of the hatching gland or its rudiment was carried out. In the first test series the rudiment of the hatching gland was removed in embryos in the stages 25-28 according to Detlaf and Ginzburg (Ref 2), i.e. before the secretion of the enzyme started.

Card 1/2

一面公的問題

Secretion of the Hatching Enzyme in Explants of the SOV/20-128-1-57/58 Hatching Gland of Acipenseridae Embryos

In the second test series the hatching gland was removed in the stage 30-33, when the accumulation of the hatching enzyme had started, but not its secretion. The experimental results showed the following: 1) The production of the enzyme may start in the hatching glands separated from the organism, and may become very intense; 2) A partial secretion of the enzyme by the glands independent of the nervous system, into the surrounding medium may occur under such conditions. Consequently this process is not caused, but only stimulated by these factors which, under normal conditions, check the secretion of the enzyme. There are 4 figures and 7 Soviet references.

ASSOCIATION:

Institut morfologii zhivotnykh im. A. N. Severtsova Akademii nauk SSSR (Institute of Morphology of Animals imeni A. N.

Severtsov of the Academy of Sciences, USSR)

PRESENTED:

March 26, 1959, by I. I. Shmal'gauzen, Academician

SUBMITTED:

March 24, 1959

Card 2/2

### IGHAT'YEVA, G.M.

Regional nature of the inductive effect of the chordamesoderm in sturgeon embryos. Dokl.AN SSSR 134 no.1:233-236 S '60.

(MIRA 13:7)

1. Institut morfologii zhivotnykh im. A.N. Severtsova Akademii nauk SSSR. Predstavleno akad. I.I. Shmal'gauzenom.

(EMERYOLOGY-FISHES)

### IGNAT'YEVA, G.M.

Inductive properties of the chordomesodermal bud before the beginning of invagination and regulation of its defects in sturgeon embryos.

Dokl. AN SSSR 139 no.2:503-505 Jl '61. (MIRA 14.3)

Institut morfologii zhivotnykh im. A.N. Severtsova AN SSSR.
 Predstavleno akademikom I.I. Shmal'gauzenom.
 (Embryology—Fishes) (Sturgeons)

IGNAT'YEVA, G.M.

Comparison of the dynamics of the invagination process of the chordamesoderm material in the embryos of starred sturgeon, sturgeon and axolotl. Dokl. AN SSSR 151 no.6:1466-1469 Ag '63. (MIRA 16:10)

1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR. Predstavleno akademikom Yu.A.Orlovym.

SHMAL'GAUZEN, Ivan Ivanovich; IGNAT'YEVA, G.M., red.; KOLPAKOVA, Ye.A., red.izd-va; DOROKHINA, I.N., tekhn.red.

[Form control in individual development; a popular scientific essay]Reguliatsiia formoobrazovaniia v individual'nom razvitii; nauchno-populiarnyi ocherk. Moskva, Izdvo "Nauka," 1964. 133 p. (MIRA 17:4)

IGNAT'YEVA, G.M.; SHUROVENKOV. B.G.

Brief news and information. Zool. zhur. 43 no.7:1099-1102 | 164. (MIRA 17:12)

LOPASHO, G.V., red.; NEYFAKH, A.A., red.; STROYEVAYA, O.G., red.; ICNAT'YEVA, G.M., red.

[Cell differentiation and induction mechanisms; reports]
Kletochnaia differentsirovka i induktsionnye mekhanizmy;
sbornik dokladov. Moskva, Nauka, 1965. 269 p.
(MIRA 18:7)

1. Simpozium po kletochnoy differentsirovke i induktsionnym mekhanizmam. Moscow, 1963. 2. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR, Moskva (for Lopashov).

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8"

YEPIFANOVA, Ol'ga Igorevna; PROKOF'YEVA-EEL'GOVSKAYA, A.A., otv. red.; IGNAT'YEVA, G.M., red.

[Hormones and cell reproduction] Germony i razmnozhenie kletok. Moskva, Nauka, 1965. 240 p. (MIRA 18:11)

### IGNAT'YEVA, G.M.

Interrelationship between the processes of epiboly and invagination during gastrulation in sturgeon embryos. Dokl. AN SSSR 165 no.4:970-973 D '65.

(MIRA 18:12)

THE RESERVE THE PROPERTY OF TH

1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR. Submitted January 20, 1965.

### "APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

IGNAT YEVA, G.V.

Reactogenicity and immunological effectiveness of the pertussisdiphtheria-tetanu: vaccine. Phur. mikrobiol., epid. i immun. 40 nc.9:134-135 S163. (MIRA 17:5)

1. 12 Muskovskogo instituta epidemiologii i mikrobiologii.

2. 在10.10 Pade 19.10 Pade 19.10

大学、10人。在特殊是一种政治方式。而10人的共和国的

IGNAT'YEVA, G.V.; SUMAROKOV, A.A.; LEDENEVA, A.G.; ALAFUZOVA, S.V.

Immunological effectiveness of pertussis-diphtheria-tetanus vaccine. Zhur. mikrobiol., epid. i immun. 40 no.10:58-62 0 63. (MIRA 17:6)

1. Iz Moskovskogo instituta epidemiologii i mikrobiologii i sanitarno-epidemiologicheskoy stantsii Leningradskogo rayona Moskvy.

SARAYEVA, N.T.; MASTYUKOVA, Yu.N.; IGNAT'YEVA, G.V.; LEDENEVA, A.G.; KHLYABICH, G.N.

Serological analysis of the clinical and epidemiological effectiveness of various reglobulin doses in the prevention of measles. Zhur. mikrobiol., epid. i immun. 42 no.11: 44-48 N 165. (MIRA 18:12)

1. Moskovskiy institut epidemiologii i mikrobiologii. Submitted June 4, 1965.

IGNAT'YEVA, G.V.; SARAYEVA, N.T.; KHROMETSKAYA, T.M.; LIDENEVA, A.G.;

MASTYUKOVA, Yu.N.; NESTEROVA, T.P.; ALAFUZOVA, S.B.; YERSHOVA, A.S.;

BARANOVA, T.V.; BEKLEMESHEVA, Ye.D.; SHIPOVA, Ye.P.; SUKHANOVA, R.V.;

KHLYABICH, G.N.; KHANTSIS, S.S.

Clinical and epidemiological effectiveness of a reduced dose of  $\gamma$ -globulin (1.5 ml) in seroprophylaxis of measles. Zhur.mikrobiol., epid. i immun. 42 no.12:57-61 D 465. (MIRA 19:1)

1. Moskovskiy institut epidemiologii i mikrobiologii; Institut virusologii imeni Ivanovskogo AMN SSSR; Moskovskaya sanitarno-epidemiologicheskaya stantsiya; Rybinskaya sanitarno-epidemiologicheskaya stantsiya; Vladimirskaya sanitarno-epidemiologicheskaya stantsiya i Ob<sup>n</sup>yedinennaya detskaya poliklinika, Makhachkala.

In this is the ZAMYSLOV, K.N.; IGNAT'YEVA, I.F. Treatment of cardiac and coronary insufficiency in hypertension. Trudy AMN SSSR 25:43-56 53. (HYPERTENSION) (MIRA 8:8) (CARDIOVASCULAR SYSTEM -- DISKASHS)

DOROFEYEVA, Z.Z., kand.med.nauk; IGNAT'YEVA, I.F. Diagnostic significance of vectocardiography in rheumatic carditis. Terap. arkh. 30 no.3:55-65 Mr '58. (MIRA 11:4) 1. Iz Instituta terapii AMN SSSR (dir-deystvitel'nyy chlen AMN SSSR prof. A.L. Myasnikov) (RHEUMATIC HEART DISEASE, diagnosis, vectocardiography (Rus) (VECTOCARDIOGRAPHY, in var. dis. rheum. heart dis. (Rus)

> CIA-RDP86-00513R000518410013-8" APPROVED FOR RELEASE: 04/03/2001

DOROFKYEVA, Z.Z.; IGNAT YEVA, I.F.

Significance of registration in precordial vectorcardiography according to the topographical principle in the diagnosis of myocardial lesions. Terap.arkh. 31 no.9:62-67 S '59. (MIRA 12:11)

1. Iz Instituta terapii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.L. Myasnikov), Moskva.
(VECTORCARDIOGRAPHY)

### "APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

Ignatively, I. B. "increasing the double quality of stock by relecting seed simils at the time of seed dropping", Doktady (Mosk. s.-kh. skad. in. Thirryspeed), Issue 3 1948, (In index: 1949), p. 24-95.

So: U-411, 12 July 3, (Letopis! Zhurani 'sykh Statey, No. 20, 1949).

### "APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

IONAT'INVA. 1.P., kand. sel'skokhozyaystvennykh nauk.

Characteristics of the development of the many-leaved lupine
[with summary in English]. Izv. TSKhA no.2:39-54 '58.(NIRA 11:6)
(Iupine)

IGNAT'YEVA, I.P., kand.sel'skokhozyaystvennykh nauk

Developmental characteristics of larkspur [with summary in English]. Isv. TSKhA no.4:49-55 '60. (MIRA 13:9)

(Larkspur)

### IGNAT'YEVA, I.P. Life cycle of Pyrethrum roseum M.B. Biul.Glav.bot.sada no.44:62-76 [861. (MIRA 15:2) 1. Moskovskaya sel'skokhozycystvennaya akademiya imeni Timiryazeva. (Pyrethrum)

## IGNAT'YEVA, I.P. Some ontogenetic features of the Oriental poppy. Bot. zhur. 46 no.9:1255-1270 S \*61. (MIRA 14:9) 1. Sel'skokhozyaystvennaya akademiya im. K.A.Timiryazeva, Dendrariy, Moskva. (Poppy)

## Morphogenesis of the Alpine forget-me-not. Bot. zhur. 46 no.8: 1194-1202 Ag '61. (MIRA 15 1) 1. Sel'skokhozyaystvennaya akademiya imeni K.A. Timiryazeva, Moskva. (Forget-me-nots) (Botany-Morphology)

### IGNAT'YEVA, I.P.

Some characteristics of the ontogenesis of the Missouri evening primrose. Biul. Glav. bot. sada no.45:87-97 '62. (MIRA 16:2)

 Moskovskaya sel'skokhozyaystvennaya akademiya imeni K.A. Timiryazeva. (Evening primrose)

# IGNAT'IEVA, I.P. Some characteristics of the ontogenesis of Gaillardia grandiflora Hort. Bot. ahur. 47 no.9:1258-1272 S '62. (MIRA 16:5) 1. Dendrologicheskiy sad imeni R.I.Shredera, Moskva. (Gaillardia)

IGNAT'YEVA, I.P.

Morphogenesis of the garden columbine (Aquilegia vulgaris L.). Bot. zhur. 49 no.3:358-371 Mr 164. (MIRA 17:3)

1. Dendrologicheskiy sad imeni R.I. Shredera, Moskva.

IGNAT'YEVA, I.P.

Shoot formation and secondary flowering in taproot and fibrous-root polycarpic herbaceous plants. Bot. zhur. 50 no.1:16-28 Ja '65. (MIRA 18:3)

1. Dendrologicheskiy sad imeni R.I.Shredera, Moskva.

#### IGNAT YEVA, I.P.

Life cycle of the taprooted and fibrous-rooted polycarpic herbaceous plants. Bot.zhur. 50 no.7:903-916 J1 165.

(MIRA 18:11)

1. Sel'skokhozyaystvennaya akademiya imeni Timiryazeva, Moskva.

Production of weld carbon dioxide in hydrolysis plants. Gidroliz.
i lesokhim. prom. 14 no.5:13-15 '61. (MIRA 16:7)

l. Leningradskiy gidroliznyy zavod (for Belyayevskiy, Shirokikh).
2. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitnospirtovoy promyshlennosti (for Ignat'yeva).

(Carbon dioxide) (Hydrolysis)

9,2181 (2303,3203) 24.7800(1144,1162)

5/048/60/024/011/019/036 B006/B056

AUTHORS:

Lur'ye, M. S., Vasil'yeva, Ye. I., and Ignat'yeva, I. V.

TITLE:

Films With Rectangular Hysteresis Loop

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 11, pp. 1376 - 1379

TEXT: The present paper is a reproduction of a lecture delivered on the 3rd Conference on Ferroelectricity, which took place in Moscow from January 25 to 30, 1960. The authors give a report on experimental investigations of influencing the rectangularity of the dielectric hysteresis by various factors. In the introduction, the influences exerted by the anisotropy of the unit cell (G. A. Smolenskiy) and the domain orientation and crystallographic structure (Ya. M. Ksendzov) are discussed. In the following, the opinion is expressed that the chemical bonds in the crystal lattice essentially influence the shape of the hysteresis; thus, e.g., it is known that when in the system of the solid solution (Ba,Pb)TiO, Ba2+ ions are replaced by Pb2+ ions, the

Card 1/4

Ferroelectric Films With Rectangular Hysteresis Loop

85883 S/048/60/024/011/019/036 B006/B056

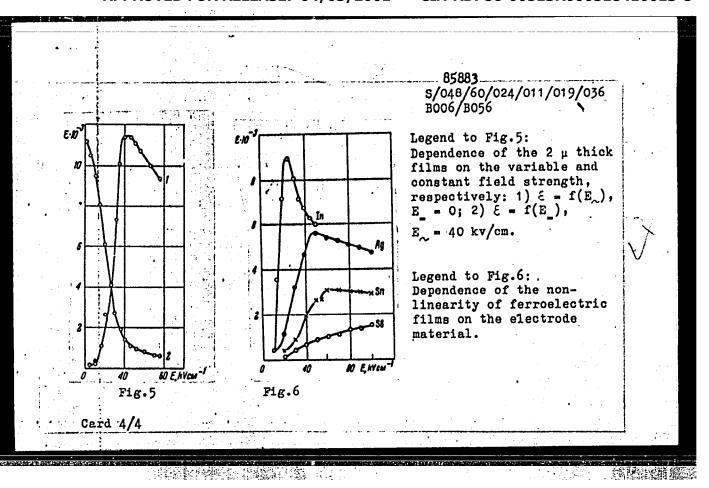
homeopolarity increases and also the rectangularity of the hysteresis, although the anisotropy of the unit cell increases (Smolenskiy had assumed that an improvement of rectangularity is due to a decrease of anisotropy). The authors investigated solid solutions of the system Pb(Ti,Zr,Sn)O, in form of thin disks, to which silver electrodes were fitted. Fig.1 shows  $\mathcal{E}(\mathbf{E}_n)$  for some of the investigated compositions. It was found that the nonlinearity of the samples increases with increasing PbTiO, content, and has a maximum near the morphotropic transition from the rhombohedric into the tetragonal phase (near 45% PbTiO,). As may be seen from Fig.2, the rectangularity increases with increasing PbTiO, content. As shown in Fig.3, the parameters remain unchanged within a wide temperature range. From the compositions given in the Table, the authors produced 2  $\mu$  thick pglycrystalline films on platinum foils or on platinum-plated ceramics, which they investigated. Fig.4 shows the hysteresis loops for films with Pt - Ag-electrodes and for films with Pt - In electrodes. Fig.5 shows  $\mathcal{E}(\mathbf{E})$ , as in the usual samples recorded at 50 cps, and Fig.6 shows the dependence of the nonlinearity of the

Card 2/4

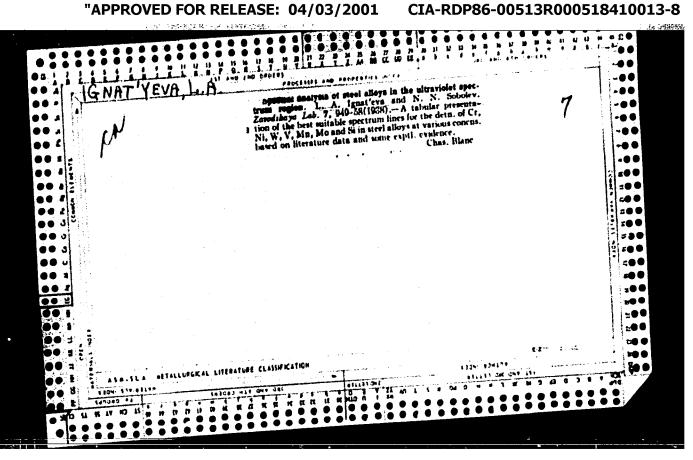
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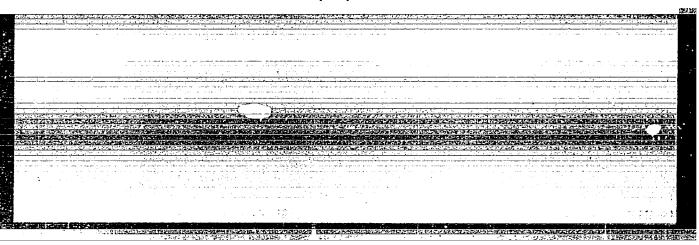


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CIA-RDP86-00513R000518410013-8

JENHT SEVA, LA

USSR/Chemistry of Colloids - Dispersed Systems.

B-14

Abs Jour

: Referat Zhur - Khimiya, No 6, 1957, 18794

Author

: I.F. Karpova, L.A. Ignat'yeva.

Inst

: Leningrad University.

Title

: Structural and Csmotic Properties of Collodion and

Precipitation Membranes of Copper Ferricyanide.

Orig Pub

: Vestn. Leningr. un-ta, 1956, No 16, 105-109

Abstract

: The esmotic pressure of the 0.4% saccharose solution on collection membranes (average pore radius 1 to 10 m/m) and production membranes produced of Cu<sub>2</sub>/Fe(CN)<sub>6</sub>/impregnated into the collection film (average pore radius 1 to 10 m/m) was measured. It was shown that for esmotic pressure measurements, the average pore radius of collection membranes should not exceed 1 m/m, and that of precipitation membranes should not exceed 4.1 m/m.

Card 1/1

- 342 -

BABUSHKIN, A.A.; UVAROV, A.V.; IGNATIYAVA, L.A.

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Infrared spectroscopic analysis of the adsorption and surface reactions of ethyl and methyl alcohols on aluminum oxide. Fix. sbor. no.3:161-167 \*57. (NIRA 11:8)

1. Moskovskiy ordena Ienina i ordena Trudovogo Krasnogo Znameni gosudarstvennyy universitet im. M.V. Lomonosova i Institut fizicheskoy khimii AN SSSR. (Mthamol-Spectra) (Methanol-Spectra) (Aluminum oxide)

8/055/59/000/06/13/027 8006/8005

24.2410 5.3700(B) AUTHORS:

Ignat'yeva, L. A., Bazhulin, P. A., Bayeva, I. K.

TITLE:

The Integral Intensities of Infrared Absorption Bands in the

Series of (CH3) siCl4-n Compounds 4

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki,

astronomii, fiziki, khimii, 1959, No. 6, pp. 127 - 130

TEXT: This article reproduces a report delivered at the Conference on Chemistry and Use of Organosilicon Compounds in September 1958. The results of infrared absorption spectrum investigations are listed in a table, and subsequently described in detail. To exclude intermolecular interactions, the spectra of the gaseous compounds were recorded at low pressures. The spectra were registered by means of a split-beam infrared spectrometer of the type IKS-2 in the range of

from 4,000 to 530 cm<sup>-1</sup>. A bismuth bolometer with a sensitivity of 25 v/w was used as a radiation receiver. To avoid distortions of the band form, recording was carried out at small velocities. The samples were placed in glass cuvettes, 45 and 100 mm long, with a KCl window. Vapor pressure was measured by a mercury

Card 1/3

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The Integral Intensities of Infrared Absorption Bands S/055/59/000/06/13/027 in the Series of (CH<sub>3</sub>)<sub>n</sub>SiCl<sub>4-n</sub> Compounds S/055/59/000/06/13/027

manometer. The experiments were carried out at pressures of 4 and torr (i.e. 1-10% of the saturation pressure). Cuvettes evacuated to 5.10-3 torr were introduced for compensation into the second channel of the spectrometer. The

integral absorption coefficient  $A = \int_{-\infty}^{\infty} \alpha_y dy$ , where  $\alpha_y$  is the absorption coef-

ficient referring to unit length and pressure, was used as a measure for the integral absorption intensity. It was possible to measure the pressure with an accuracy of 10-15%. Without corrections, the total error of intensity measurement was 20-25%. Results (y in cm<sup>-1</sup>):

Card 2/3

The Integral Intensities of Infrared Absorption Bands in the Series of (CH3) sicl4-n Compounds 8/055/59/000/06/13/027 B006/B005

Substance	*							Oscillation type						
	symmetr. valency- CH <sub>3</sub>		asymi valei CH	metr. noy-	symmetr. symmetrion-CH <sub>3</sub> Si-C		metr. Bnoy-	etr. asymmetr.		asymmetr. Valency-				
(mm \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Y	#A	V		Ŋ	<u> </u>	- 12					
(CH <sub>3</sub> )SiCl <sub>3</sub>	-	48	2985	103.8	1266	310	764	400	<u> </u>	A	<u> </u>			
(CH <sub>3</sub> ) <sub>2</sub> SiCi	2920	100	2980	Ap.					-	-	575	458		
(CH <sub>3</sub> ) <sub>3</sub> SiC1					1264	370	691	220	804	407	538	258		
(07 ) 24		145	2975	280	1261	415	631	105	761	239		-)0		
(CH <sub>3</sub> ) <sub>4</sub> Si	2900	210	2970	360 <sub>°</sub>	1259	500	_	_		225	-	-		

M. I. Batuyev, A. D. Petrov, V. A. Ponomarenko, and A. D. Matveyeva are mentioned. There are 1 table and 4 references, 1 of which is Soviet.

ASSOCIATION: Kafedra optiki (Chair of Optics)

SUBMITTED: April 23, 1959

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24(7), 24(2)

Ignatiova, L.A.

SOV/51-6-6-19/34

TITLE:

AUTHOR:

Study of d- and p-spodumenes by Means of Infrared Spectroscopy (Izucheniye ii- i p-spodumenov metodom infrakrasnoy spektroskopii)

ABS TRACT:

PERIODICAL: Optika i spektroskopiya, 1959, Vol 6, Nr 6, pp 807-810 (USSR). of-spodumene is a natural mineral LiAl Si20s containing ~65% of Si02, ~27% of Al20g, ~7% of Ligo and certain impurities. Heating of a-spedumene to temperatures of the order of 1000°C transforms it into A-spodumene. The transition is endothermic and it is accompanied by large changes in volume and other physical constants (specific gravity, refractive index, interplanar distance in Debye X-ray patterns, see the table on p 807). All these effects suggest that important changes occur in the crystal lattice on asp transition. The structure of aspedumene is similar to that of clino-enstatite with two atoms of Mg replaced by Al and Li surrounded by six atoms of oxygen (coordination number of Al equal to 6). The structure of &-spodumene is not known. It was suggested that it is similar to that of silicates with aluminium at tetrahedral sites surrounded by four oxygen atoms (coordination number of Al equal to 4). In order to check this suggestion the author obtained infrared spectra of both apodumene modifications. These spectra were measured using a two-beam infrared spectrometer IKS-2 in the region from 550 to 3000 cm<sup>-1</sup>. In order to study the changes on transition from

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SOV/51-6-6-19/34

Study of - and -Spodumenes by Means of Infrared Spectroscopy

Aspodumene to \$\beta\$-spodumene samples which underwent various heat treatments were used. Fig 1 shows the transmission spectra of spodumenes heated to various temperatures (curves I-IV) and that of despodumene which did not undergo any heat treatment (curve \$\alpha\$). These spectra show that the transition occurs near 900°C. Comparison of the spodumene spectra of Fig 1 with the spectra of minerals containing Al surrounded by six oxygen atoms (topaz, beryl and kyanite, shown in the lower part of Fig 2) and by four oxygen atoms (analcite, milarite and sodalite, shown in the upper part of Fig 2) proves that the suggestion made above is correct, i.e. in d-spodumene each Al atom is surrounded by six oxygens and in \$\beta\$-spodumene each such atom is surrounded by four oxygens. There are 2 figures, 1 table and 8 references, 4 of which are Soviet, 3 German and 1 English.

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77102 SOV/70-4-6-3/31

AUTHORS:

Kolontsova, Ye. V., Ignat'yeva, L. A.

TITLE:

Diffuse Scattering of X-Rays by Quartz Crystals Before

and After the Exposure to Neutron Radiation

PERIODICAL:

Kristallografiya, 1959, Vol 4, Nr 6, pp 821-825 (USSR)

ABSTRACT:

The X-ray diffraction photographs of quartz crystals were taken by Mo radiation, monochromatized reflecting from a slightly bent topaz crystal which proved to be better than pentaerythrite. The intensity of the X-ray beam was controlled taking photographs of a standard polycrystalline specimen parallel with those of the quartz under test. The intensities of diffuse maxima were measured photometrically, reciprocal lattice coordinates computed according to formulas derived by Yu. A. Bagaryatskiy, contour lines of equal diffusion drawn on reciprocal lattice projections, and the intensity changes in certain directions represented graphically. The latter disclosed that the exposure of both natural and artificial quartz crystals to neutron radiation, up to 1010 neutrons per cm<sup>2</sup>, does

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Diffuse Scattering of X-Rays by Quartz Crystals Before and After the Exposure to Neutron Radiation 77102 SOV/70-4-6-3/31

not alter the pattern and intensity of diffuse scattering to an extent greater than possible experimental errors. The exposure to neutron radiation of 10<sup>19</sup> neutrons per cm<sup>2</sup> intensity increased the intensity of diffusion by 50%, but did not change the forms and positions of diffraction maxima (see Fig. 4).

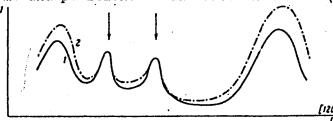


Fig. 4. Intensity distribution of diffracted X-rays along 1207. (1) before; and (2) after the exposure of quartz crystals to neutron radiation of 1019 neutrons per cm2 intensity. Arrows point to the diffuse maxima of a standard specimen.

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Diffuse Scattering of X-Rays by Quartz Crystals Before and After the Exposure to Neutron Radiation

77102 SOV/70-4-6-3/31

This seems to indicate that exposure to neutron radiation does not alter the irregular nature of defect distribution but only the number of defects. After six months relaxation of the exposed crystals, the intensity increase of diffusion dropped from 50 to 20%. This obviously points to the decreased number of defects after relaxation. The quartz crystals, exposed to neutron radiation and etched by HF for 15 minutes, were studied under an electron microscope at 200-8,000 X enlargements. The tests failed to show any relationship between etch pits and dislocations. The etch pits on artificial crystals were smaller and sharper than on natural crystals. The crystals exposed to neutron radiation showed waved etch figures. L. I. Tsinober is acknowledged for the specimens made available and T. T. Filippova for electron-microscope studies. There are 4 figures; and 17 references, 9 Soviet, 6 U.K., 1 U.S., 1 French. 5 most recent U.K. and U.S. references are: P. Clemens, Philos. Mag., 1, 10, 938 (1956); K. Huang, Proc. Roy.

Card 3/4

Diffuse Scattering of X-Rays by Quartz Crystals Before and After the Exposure to Neutron Radiation

77102 SOV/70-4-6-3/31

Soc., A, 190, 1020, 102 (1957); M. Wittels, Philos. Mag., 2, 24, 1445 (1957); M. Wittels, F. Sherrill, Phys. Rev., 93, 5, 1117 (1954); M. Born, Proc. Roy. Soc., A, 180, 983, 397 (1942).

ASSOCIATION:

Moscow State University imeni M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet imeni

M. V. Lomonosova)

SUBMITTED:

February 7, 1959

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S/153/60/003/004/015/040/XX B020/B054

AUTHORS:

Fioshin, M. Ya., Khazova, O. A., Ignat'yeva, L. A.

TITLE:

Study of the Anode Process in the Electrolysis of Mixtures of Sulfuric and Acetic Acid. II. Effect of the Solution Composition on the Ratio of Components in the Mixture of

Anode Gases

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol. 3, No. 4,

pp. 637 - 641

**《上海》,《西班通》,《西班通》** 

TEXT: The authors attempted to study the composition of gases liberated from the anode in the electrolysis of an anhydrous mixture of sulfuric and acetic acid, and their dependence on the composition of the solution. The gases liberated from the anode were analyzed by a BTM-2 (VTI-2) gas analyzer. The analytical method was based on a successive and selective absorption of the principal components of the gas mixture by various absorbents, and on a combustion of hot gases with subsequent analysis of the combustion products. The authors determined CO<sub>2</sub> by 33% KOH, the

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Study of the Anode Process in the S/153/60/003/004/015/040/XX Electrolysis of Mixtures of Sulfuric and B020/B054 Acetic Acid. II. Effect of the Solution Composition on the Ratio of Components in the Mixture of Anode Gases

unsaturated hydrocarbons by a KBr solution saturated with bromine vapors, O<sub>2</sub> by a basic pyrogallol solution, CO by a Cu<sub>2</sub>O suspension in concentrated H<sub>2</sub>SO<sub>4</sub> absorbed with β-naphthol, H<sub>2</sub> by combustion over CuO at 270-280°C, and the saturated hydrocarbons by combustion over CuO at 850-950°C. Sulfuric and acetic acid must be highly pure, and not contain any water. Electrolysis was conducted in a cylindrical glass vessel with a ground-in glass stopper, with fused-in electrodes, and a tube to draw off the gas. The anode used was a smooth platinum net with a surface of 63.5 cm<sup>2</sup>. The anode space was separated from the cathode space by a ceramic diaphragm. The current source used was a storage battery with a voltage of 80 v. Electrolysis was conducted in an anhydrous H<sub>2</sub>SO<sub>4</sub> - CH<sub>3</sub>COOH mixture in an interval of 20-80 mole% of H<sub>2</sub>SO<sub>4</sub>. Ten different compositions (20, 25, 30, 33, 35, 45, 50, 55, 60, and 80% H<sub>2</sub>SO<sub>4</sub>) were analyzed. For each composition, the gas analysis was conducted at three current densities: 2.78·10<sup>-4</sup>, 5.5·10<sup>-4</sup>, and Card 2/4

Study of the Anode Process in the s/153/60/003/004/015/040/xx Electrolysis of Mixtures of Sulfuric and B020/B054 Acetic Acid. II. Effect of the Solution Composition on the Ratio of Components in the Mixture of Anode Gases  $1.58 \cdot 10^{-3}$  a/cm<sup>2</sup>, which corresponded to the lower, central, and upper part of the curve  $\varphi_a = f(\log I_a)$ . The change in the ethane- (Fig. 1), carbon dioxide- (Fig.2), and oxygen content (Fig.3) in dependence on the solution composition was observed. The Kolbe synthesis proceeded in a mixture containing up to 50 mole% of H<sub>2</sub>SO<sub>4</sub> at current densities of from 2.78·10<sup>-4</sup> to 1.58·10<sup>-3</sup> a/cm. Besides the Kolbe synthesis, an intensive oxidation of acetic acid to CO<sub>2</sub> and water is likely to proceed on the anode. At concentrations higher than 50 mole% of H2SO4, this reaction proceeds jointly with the release of oxygen. The formation of solvates influences the composition of anode gases. In the diagram  $C_{O_2} = f(C_{H_2SO_4})$ , the points of solvate formation correspond to the maximum, in the diagram  $C_{CO_2} = f(C_{H_2SO_4})$  to the minimum. N. I. Dedusenko (Ref.5) is mentioned. There are 3 figures and 10 references: 3 Soviet, Card 3/4

Study of the Anode Process in the S/153/60/003/004/015/040/XX B020/B054 Electrolysis of Mixtures of Sulfuric and Acetic Acid. II. Effect of the Solution Composition on the Ratio of Components in the Mixture of Anode Gases

3 British, 3 German, and 1 Swiss.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im.

D. I. Mendeleyeva, kafedra tekhnologii elektrokhimiche-skikh proizvodstv (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev, Department for the Technology of the

Electrochemical Industry)

SUBMITTED: October 20, 1958

Card 4/4

# IGNAT' YEVA, L.A.; PILIPPOVA, K.I.

Study of & and A-spodumenes by means of infrared spectroscopy. Zhur.fis.khim. 34 no.9:2092-2090 S 160. (MIRA 13:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. (Spodumene--Spectra)

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15.8170

S/661/61/000/006/062/081 D243/D302

AUTHORS: Ignat'yeva, L. A., Bazhulin, P. A. and Bayeva, I. K.

TITLE: The intensities of the infrared absorption bands of silico-organic compounds of the series (CH<sub>3</sub>)<sub>n</sub>SiCl<sub>4-n</sub>

SOURCE: Khimiya i prakticheskoye primeneniye kremneorganicheskikh soyedineniy; trudy konferentsii, no. 6: Doklady, dirkussii, resheniye. II Vses. konfer. po khimii i prakt. prim. kremneorg. soyed., Len. 1958. Leningrad Izd-vo AN SESR, 1961, 277-282

TEXT: The authors studied the integral intensities of the infrared absorption bands of the above compounds, where n=1,2,3,4, and follow the change of intensity and frequency of the absorption bands for separate bonds in the molecule when Cl's were substituted by CH<sub>3</sub> groups. All investigations were carried out in the vapor phase at low pressures to exclude intermolecular reactions. The spectra were recorded with a two-ray NkC-2(IKS-2) infrared spectrometer

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in the region 4000 to 530 cm<sup>-1</sup>, a bismuth bolometer acting as radiation receiver and the spectra being recorded at low speeds to avoid distortion. The experiments were carried out at 4 mm and 10 mm pressures. The average error in measuring the integral intensity was 20 - 25%. A. L. Smith's interpretation of the I-R absorption bands was accepted but the 761 cm<sup>-1</sup> frequency band was taken as the valence asymmetric oscillation of Si-C in (CH<sub>3</sub>)<sub>3</sub>SiCl. The results

are given in tabulated form and show the characteristic changes which occur. It is suggested that the rise in intensity of the Si-C oscillation may be due to the large difference in electronegativity between the Si atoms (1.8) and the Cl atoms (3.0), which increases the dipole moment of the Si-C bond. Reference is made to the work of M. I. Batuyev, A. D. Petrov, V. A. Ponomarenko and A. D. Matveyeva in this connection. Also, with a high number of chlorine atoms in the molecule, changes in dipole moment of the vi-Cl bonds may have an induction effect on the Si-C bonds, and cause the oscillation intensity of the latter to rise. There are 1 table and 4 references: 1 Soviet-bloc and 3 non-Soviet-bloc. The references to

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the English-1 nguage publications read as follows: T. Shimanouchi, I. Tsuchiya and Y. Mikawa, J. Chem. Phys., 18, 1306, (1950); I. Duchesne, J. Chem. Phys., 16, 1006, (1948).

ASSOCIATION: Moskovskiy gosudarstvenny universitet im. L. V. Lomonosov (Moscow State University im. M. V. Lomonosov)

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