

ZOTIN, A.I.; KRUMIN', A.Ya. [deceased]

Formation of primary intestinal cavity in acipenserid fishes.  
Zhur.ob.biol. 20 no.4:313-321 J1-Ag '59. (MIRA 12:11)

1. Institut morfologii zhivotnykh im. A.N.Severtsova Akademii  
nauk SSSR.

(EMBRYOLOGY--FISHES) (INTESTINES)

ZOTIN, Aleksandr Ilich; DDTLAF, T.A., doktor biol. nauk, otv. red.  
BOCHAROV, Yu.S., red. izd-va; ROMANOV, G.N., tekhn. red.

[Physiology of water metabolism in the embryos of fishes and  
cyclostomes] Fiziologiya vodnogo obmena u zarodyshei ryb i  
kruglorotyykh. Moskva, Izd-vo Akad. nauk SSSR, 1961. 319 p.  
(MIRA 14:9)

(Embryology--Fishes) (Water metabolism)

ZOTIN, A.I.

Relative fecundity of fishes and egg size. Vop. Ikht. 1 no.2:307-  
313 '61. (MIRA 14:6)

1. Institut morfologii zhiivotnykh imeni Severtsova AN SSSR.  
(Fishes---Eggs) (Fecundity)

ZOTIN, A.I.

Mechanism of the transition of the blastocoelic fluid into the cavity of the primary gut in sturgeon embryos. Dokl. AN SSSR 142 no.4:968-971 F '62. (MIRA 15:2)

1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR.  
Predstavleno akademikom K.I.Skryabinym.  
(Embryology-Fishes)  
(Intestines)

ZOTIN, A.I.; POGLAZOV, B.F.

Excitability of the surface layer of the cytoplasm and egg  
segmentation in fish and Amphibia. Dokl. AN SSSR 143 no.51  
1233-1236 Ap '62. (MIRA 15:4)

1. Institut morfologii zhivotnykh im. A.N.Sevartsova AN SSSR i  
Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR.  
Predstavleno akademikom V.A.Engel'gardtom.  
(Embryology--Fishes) (Embryology--Amphibia)

POGLAZOV, B.F.; VOLKOVA, T.Ya.; ZOTIN, A.I.

Contractile protein from the liver mitochondria. *Tsitologii* 5 no.3:  
338-339 My-Je '63. (MIRA 17:5)

1. Laboratoriya funktsional'noy ensimologii Instituta radiatsionnoy  
i fiziko-khimecheskoy biologii AN SSSR i Gruppy kosmicheskoy biologii  
i biofiziki razvitiya Instituta morfologii zhivotnykh AN SSSR, Moskva.

ZOTIN, A.I.; PAGNAYEVA, R.V.

Time for determining the position of fission grooves in the eggs  
of sturgeon and axolotl. Dokl. AN SSSR 152 no.3:765-768 S  
'63. (MIRA 16:12)

1. Institut morfologii zhivotnykh im. A.N.Sevartsova AN SSSR.  
Predstavleno akademikom I.I.Shmali'gauzenom.

ZOTIN, A.I., doktor biolog. nauk

"Physical and chemical foundations of fertilization" by V.A. Dorfman.  
Reviewed by A.I. Zotin. Vest. AN SSSR 34 no. 1:136-137 Ja '64.  
(MIRA 17:5)



1 21476-26 001115 11

ICPAC IALS: organic phosphorus compound, phosphorylation, biosynthesis, protein, nucleic acid, biological reproduction, DNA, RNA, drug effect

effect of inhibitors of

the percentage of egg cleavage. The first cleavage is completely blocked with an ATP content in the eggs of less than 50% of normal and cleavage

I-2100-66 ENT(2)/T  
ACC NR. AF6015825

FAUSTOV, V.S.; ZOTIN, A.I.

Change in combustion heats of fish and amphibian eggs during their development. Dokl. AN SSSR 162 no.4:965-968 July '65. (MIRA 18:5)

1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR. Submitted July 13, 1964.

ZOTIN, A.V.

Some discrepancies in the state standard for leather. Kozh.  
obav. prom. 6 no. 54-63 My '64. (MIRA 17/12)

ZOTIN, B.V., inzh.

Construction of a power transmission line in the Virgin  
Territory. Energ. stroi. no.33:67-71 '63.

1. Trest "Uralelektroset'stroy".

(MIRA 17:8)

ZOTIN, B.V., inzh.; ROMANOV, A.D.

Construction of the Votkinsk Hydroelectric Power Station -  
Sverdlovsk 500 kv electric transmission line on reinforced  
concrete poles. Energ. stroi. no.27:71-76 '62. (MIRA 15:9)

1. Treat "Uralelektroset'stroy" (for Zotin). 2. Glavvostohelektro-  
set'stroy (for Romanov).

(Electric lines--Poles and towers)

ACCESSION NR: APL019088

S/0016/64/0010/003/0070/0074

AUTHORS: Moiseyev, A. A. (Candidate of technical sciences); Zotin, I. M. (Engineer)

TITLE: Behavior of steels EP-184 (type EI-713), EI-695R, and EP-17 under working conditions

SOURCE: Teploenergetika, no. 3, 1964, 70-74

TOPIC TAGS: steel EP 184, steel EI 695R, steel EP 17, steel behavior, steel working characteristics, steel structure, steel property, steel inclusion, inclusions in carbide

ABSTRACT: Steels EP-184, EP-17, and EI-965R have been proposed by institutes VTI, TsNIITMASH, and TsNIICM for production of steam pipes, headers, and collectors at working conditions of 300 atm and 650C. Their characteristics have been investigated by the same institutes, while their behavior in rolling and welding has been studied at TsNIITMASH and VNII. It was determined that these steels are satisfactory for power plant installations. At 650C their range of sustained strength is 13-16 kg/mm<sup>2</sup>, and at 700C it is 9.5-12 kg/mm<sup>2</sup>. Their elongation under

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ACCESSION NR: AP4019088

tension is 10-38%, mean coefficient of linear expansion is 17.1-19.2, and coefficient of heat conductivity is 11.5-21.2 in the temperature range of 0-700C. They show no tendency to scale up to 800C. Their behavior is satisfactory in rolling, welding, machining, and fabricating processes. During the first 1000 hours of work their structural properties change, but remain stable thereafter. All the experimental results have been checked under industrial conditions in the factories "Electrostal", YUTZ, ZIO, Nikopol' Pipe Factory, and TETA VTI. Here, too, the metals were found satisfactory in all respects. It was determined that under working conditions their strength increases while their plasticity decreases. This is especially true during the first 8700 hours of use. After 15 900 hours their grains consist of austenite with carbide inclusions. No sigma- or alpha-phase has been detected. The content of inclusion in the carbides changes with time. Thus, steel EP-184 showed an increase in chromium and tungsten, a decrease in molybdenum, and no change in niobium. The sharp increase of chromium in carbides is accompanied by a drop in impact strength. All the steels under investigation proved resistant to intercrystalline corrosion. For the range of sustained strength in steel EP-184 (type EI-713) see Fig. 1 on the Enclosure. Orig. art. has: 6 figures and 5 tables.

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ACCESSION NR: AP4019088

ASSOCIATION: Vsesoyuznyy teplotekhnicheskiy institut (All-Union Institute of Heat Technology)

SUBMITTED: 00

DATE ACQ: 26Mar64

ENCL: 01

SUB CODE: ML

NO REF SOV: 000

OTHER: 000

Card 3/4

ACCESSION NR: AP4019088

ENCLOSURE: 01

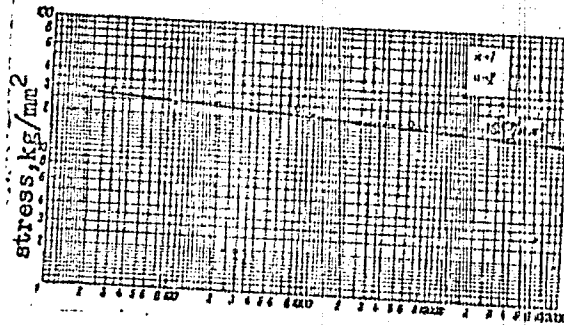


Fig. 1. Range of sustained strength for steel EP-184 (type EI-713) before and after 8700 hours of work (in steam pipes with diameter 152 x 25, melt 72463). Points x indicate stresses after 8700 hours of work; points o indicate stresses before installation.

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ZOTIN M. A.  
S. L. Kryzhova, A. A.

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PHASE I BOOK EXPLOITATION

BOV/6181

Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960. Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR. Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO.

Eds. (Title page): G. P. Skornyakov, A. B. Shayevich, and S. G. Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publishing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova.

**PURPOSE:** The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results.

**COVERAGE:** The collection presents theoretical and practical problems of the application of atomic and molecular spectral analysis in controlling the chemical composition of various materials in ferrous and nonferrous metallurgy, geology, chemical industry, and medicine. The authors express their thanks to G. V. Chentsova for help in preparing the materials for the press. References follow the individual articles.

Materials of the Third Ural Conference (Cont.)

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Buravlev, Yu. M., V. I. Ustinova, and G. P. Neuymina.  
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~~Card 10/15~~

GLUSHKOVA, L.A.; ZOTIN, M.A.; SHAVRIN, A.M.

Experimental study on the relation of the relative intensity of vanadium, chromium, and nickel spectrum lines to concentration in standard samples. Fiz. zh. no. 4:483-487 '58.  
(MIRA 12:5)

1. Permskiy gosudarstvennyy universitet.  
(Vanadium--Spectra) (Chromium--Spectra) (Nickel--Spectra)

Zotiny, M.A.

24(7)

FRASE I BOOK EXPLORATION

30V/1700

Prof. Universitet

Materialy X Vsesoyuznogo soveshchaniya po spektroskopii, 1956.
I. Il' Al'manakh spektroskopii (Materialy atome spektroskopii)
Otdel'nye nauchnye trudy, 1956. 21 str.
Vysokaya shkola, Moskva, 1958. 162 p. (Series: Itogi nauki i tekhn. Seriya Khim. i fiz. Nauki, 1958, 1(9)). 3,000 copies printed.

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po spektroskopii.

Editorial Board: G.S. Landsberg, Academician, (Resp. Ed.);
S.G. Reporent, Doctor of Physical and Mathematical Sciences;
I.L. Fabrikant, Doctor of Physical and Mathematical Sciences;
V.A. Fabrikant, Doctor of Physical and Mathematical Sciences;
V.G. Koritskiy, Candidate of Technical Sciences; S.M. Naynskiy,
Candidate of Physical and Technical Sciences; L.V. Pilyuchuk
(Correspondent), Doctor of Physical and Mathematical Sciences;
A.Ye. Gubenskiy, Doctor of Physical and Mathematical Sciences;
M. S. E. Gub; Tech. Ed.: T.V. Saranyuk.

FUNCTION: This book is intended for scientists and researchers in the field of spectroscopy, as well as for technical personnel using spectrum analysis in various industries.

CONTENTS: This volume contains 177 scientific and technical studies of atomic spectroscopy presented at the 10th All-Union Conference on Spectroscopy in 1956. The studies were carried out by members of scientific and technical institutes and include extensive bibliographies of Soviet and other sources. The studies cover many phases of spectroscopy: spectra of rare earths, electromagnetic radiation, physicochemical methods for controlling uranium production, physics and technology of gas discharge, optics and spectroscopy, abnormal dispersion in metal vapors, spectroscopy and the combustion theory, qualitative spectroscopy and its applications, methods of spectral determination of the analysis of metals and alloys, spectral determination of the hydrogen content of metals by means of isotopes, tables, and atlases of spectral lines, spark spectroscopic analysis, statistical study of variation in the parameters of calibration curves, determination of traces of metals, spectrum analysis in metallurgy, thermochemistry in metallurgy, and principles and practice of spectrochemical analysis.

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Mirshenko, A.I. Spectral Method for the Determination of Sodium and Potassium in Chamotte, Dinas Brick, Magnesite, and Other Refractory Materials 479

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24(7)

AUTHORS:

Shavrin, A. M., Zotin, E. A.

SOV/48-23-3-11/57

TITLE:

On the Problem of the Influence of the Composition of Pulverulent Substances on the Relative Intensity of Spectral Lines

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 9, pp 1077-1079 (USSR)

ABSTRACT:

A report is delivered concerning investigations of the relative line intensities in systems on the basis of  $\text{SiO}_2$  and carbonates of alkaline earth elements. The samples were evaporated from copper electrodes. The ratio of the intensities of a Cd-line to three Zn-lines is measured. In the samples the  $\text{SiO}_2$ -content is varied from 0 to 98.5% and that of carbonates from 98.5 to 0%. The mixture contains 1.5% ZnO. An alternating current arc is used according to the scheme of N. E. Sventitskiy, with copper electrodes in which the material to be investigated was located in the hole. Figure 1 is a graphical representation of the values  $\lg(I_{\text{Cd}}/I_{\text{Zn}})$  depending upon the composition of the systems  $\text{SiO}_2\text{-MgCO}_3$ ,  $\text{SiO}_2\text{-CaCO}_3$ ,  $\text{SiO}_2\text{-SrCO}_3$ , and  $\text{SiO}_2\text{-BaCO}_3$ , where  $I_{\text{Cd}}$  and  $I_{\text{Zn}}$  denote the line intensities. The complex dependence of these relative intensities as seen from the diagram is the result of the variation of the absolute line in-

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SOV/48-23-9-11/57

On the Problem of the Influence of the Composition of Fuivarent Substances  
on the Relative Intensity of Spectral Lines

tensities of cadmium and zinc. This is brought into connection with the chemical interaction of the components, in which case the melting of the alkaline earth carbonates and the production of a metal ring on the electrode plays an important part. The results obtained prove the existence of a chemical interaction between the  $\text{SiO}_2$  and the  $\text{CaCO}_3$  on the electrode, whereas the absence of a marked minimum in the  $\text{SiO}_2$ - $\text{MgCO}_3$  system points in the direction of an incomplete transformation of the mixture components into silicates. The behavior of the relative intensities on the  $\text{CaCO}_3$ - $\text{SrCO}_3$  system is explained by the lack of the chemically active component  $\text{SiO}_2$ . S. M. Bobrova took part in the experimental part of this work. There are 2 figures.

ASSOCIATION: Permskiy gos. universitet im. A. M. Gor'kogo  
(Perm' State University imeni A. M. Gor'kiy)

Card 2/2

39122  
#/058/62/0007006/048/136  
A061/A101

AUTHORS: Zotin, M. A., Shavrin, A. M.

TITLE: A study of the mutual effect of silicon dioxide and carbonates of alkaline-earth elements on the relative intensity of nickel-titanium and nickel-vanadium spectral line pairs

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 14, abstract 60111 ("Uch. zap. Permsk. un-t", 1961, v. 19, no. 1, 123 - 124)

TEXT: The results of a study of the relative intensity of Ni-Ti and Ni-V spectral line pairs under partial evaporation of the mixtures are presented. The relative intensity of the pairs has been studied:  $Ni\lambda = 2992.595 - Ti\lambda = 2956.131$ ,  $Ni\lambda = 2992.595 - V\lambda = 3066.375 \text{ \AA}$ . The uniformity of the effect, in the presence of  $SiO_2$ , of elements belonging to one group of the periodic system on the relative spectral line intensity has been confirmed.

[Abstracter's note: Complete translation]

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2071N, M.A.

110

PHASE I BOOK EXPLOITATION

30V/6181

Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960. Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR. Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO.

Eds. (Title page): G. P. Skornyakov, A. B. Shayevich, and S. G. Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publishing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova.

PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results.

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110

Materials of the Third Ural Conference (Cont.)

SOV/6181

**COVERAGE:** The collection presents theoretical and practical problems of the application of atomic and molecular spectral analysis in controlling the chemical composition of various materials in ferrous and nonferrous metallurgy, geology, chemical industry, and medicine. The authors express their thanks to G. V. Chentsova for help in preparing the materials for the press. References follow the individual articles.

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Zotin, M. A., and A. M. Shavrin. Spectral-analytical determination of nickel in ores by the dilution method	133

Card 10/15

ZOTIN, M.I.

AID P - 1874

Subject : USSR/Meteorology and Hydrology  
Card 1/1 Pub. 71-a - 17/26  
Author : Zotin, M. I. and Shipilov, F. D.  
Title : ~~On one "discrepancy"~~ "On one "discrepancy" in the Nastavleniya Gidrometeorologicheskim Stantsiyam (Directives to Hydrometeorological Stations)  
Periodical : Met. i gidro., no.2, 47, 1955  
Abstract : Criticism of the order and time in which meteorological and hydrological observations are made.  
Institution : None  
Submitted : No date

[1]

ZOTIN, M., kandidat geograficheskikh nauk.

Scientific stations on drifting ice in the Central Arctic. Mor.flot.  
15 no.11:26-28 H '55. (MLRA 9:2)  
(Arctics regions)

(1)  
ZOTIN, M., kandidat geografičeskikh nauk.

Artic seas. Blek.sgit.ved transp. no.20:16-23 0 '55. (MLBA 9:1)  
(Arctic Ocean)



ИСТОРИЯ

PHASE I BOOK EXPLOITATION 936

Akademiya nauk SSSR. Komissiya po problemam Severa

Letopis' Severa; Yezhegodnik po voprosam istoricheskoy geografii, istorii geograficheskikh otkrytiy i issledovaniy na Severe. t. II (Chronicles of the North; Yearbook of Historical Geography, History of Geographical Discoveries and Exploration of the North.) v. 2 Moscow, Geografiz, 1957. 279 p. 2,000 copies printed.

Editorial Board: Andreyev, A.I., Belov, M.I., Burkhanov, V.F., Yefimov, A.V. (Resp. Ed.), Chernenko, M.B. (Deputy Resp. Ed.) and Shcherbakov, D.I.; Ed.: Vorontsova, A.I.; Tech. Ed.: Kosheleva, S.M.; Map. Ed.: Mal'chevskiy, G.N.

PURPOSE: The book is intended for readers interested in the Soviet Arctic.

COVERAGE: The present volume, the second of a series of three, is a collection of 27 articles by various authors presenting an historical account of the exploration and economic development of the

Card 1/6

Chronicles of the North (Cont.) 936

Soviet North. A small part of the book is devoted to Arctic areas beyond the confines of the Soviet Union. The aim of the book is to contribute to an understanding of the physical geography, cartography, ethnography, and economy of the Soviet North through a historical survey of these factors. A large number of authors, explorers, scientists, travellers, pilots, navigators, etc. are cited. The text is accompanied by numerous photographs and maps.

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3 (9)

AUTHORS:

Baydin, S. S., Zotin, M. I.

SOV/50-59-3-3/24

TITLE:

Investigations of the Mouths of USSR Rivers Falling Into the Sea (Issledovaniya morskikh ust'yev rek SSSR)

PERIODICAL:

Meteorologiya i gidrologiya, 1959, Nr 3, pp 25 - 27 (USSR)

ABSTRACT:

First a short historical survey is given on investigations of river entries into the sea. In this connection V. Ye. Iyakhnitskiy, T. P. Maryutin, V. V. Valedinskiy and B. A. Apollonov are mentioned. Recently, the Gosudarstvennyy okeanograficheskiy institut (GOIN) (State Oceanographic Institute) took over the organization of systematical investigations of river mouths and in 1951 published a manual for river mouth stations. (Ref 4). Somewhat later a laboratory for the investigation of river entries into the sea was established. Under the participation of the GOIN the Gidrometeosluzhba (Hydrometeorological Service) special hydrometeorological stations were established at the mouths of the Volga, Neva, Northern Dvina, Western Dvina, Amu-Dar'ya. Also at the mouths of the Dnepr, Southern Bug, Danube, Don, Kuban', Kura, Kamchatka such stations are under construction. These stations work according to a purposeful and fixed

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Investigations of the Mouths of USSR Rivers Falling  
Into the Sea.

SOV/SC-59 3-3/24

program. The solution of the tasks is important for the economy of harbors, such as Arkhangel'sk, Leningrad and Astrakhan'. The investigation of the Volga estuary is necessary also for solving the problem of the regeneration of fish reserves in the Caspian Sea. The first book on the river mouths of the world was that published in 1952 by I. V. Samoylov (Ref 5). In the course of the last years comprehensive hydrological characteristics were published for the mouths of the following rivers: Volga (Ref 1), Amu-Dar'ya (Ref 2), Kuban' (Ref 6), Don (Ref 3). The Seven Year Plan of the GUCMS (Main Administration of the Hydrometeorological Service of the USSR) provides monographs on the hydrology of the mouths of the following rivers: Western Dvina, Northern Dvina, Neva, Danube, Dnepr and Southern Bug, Terek, Kura etc. The mouth stations gradually develop to scientific subdivisions of the network of the Gidrometeosluzhba. At present, however, they are far from being able to solve their tasks. In this connection some deficiencies are mentioned. In 1959 a new manual for mouth stations will be prepared. One of the difficulties is the rapid change of the drainage system of rivers such as Amu-Dar'ya, Syr-Dar'ya, Kura and Terek. From

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Investigations of the Mouths of USSR Rivers Falling  
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1958 - 1959 the GUGMS will rationalize the entire hydrometeorological system. The hydrometeorological stations will directly participate in this work. In this work the hydrological conditions of the oceans and of the river mouths of the USSR will be investigated. There are 8 Soviet references.

Card 3/3

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