

GOLDA, V.; PETREK, J.; LISONEK, P.

The somatotopical afferent projection of the limbs into the motor cortex in the cat. Acta physiol. acad. sci. Hung. 28 no. 3:277-286 ' 65.

1. Laboratory of Higher Nervous Activity and Department of Anatomy, Palacky University, Olomouc, Czechoslovakia.

PETREK, JOZEF

✓ Petrek, Jozef. Nástin klímy Skalnatého Pleša na základe 15 ročného pozorovania. [Climatic summary of Skalnaté Plešo from 15 years of observation.] *Meteorologické Zpravy*, Prague, 9(5/6):114-122, 1956. 3 figs., 13 tables, 6 refs. Russian and German summaries p. 114. **DWB**—Data on temperature and its interdiurnal variability, on humidity, atmospheric pressure, wind, precipitation, cloudiness and insolation are tabulated and graphically presented for Skalnaté Plešo (49N, 20E, el.: 1778 m) for a 15 year period. **Subject Headings:** 1. Local climatology. 2. Skalnaté Plešo, Czechoslovakia.—*Trans. of author's abstract.*

4

see

PETREANU, F

RUMANIA / Chemical Technology. Chemical Products and H-15
Their Applications. Industrial Organic Syn-
thesis.

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 78566.

Author : Taussig, S., Petreanu, F.

Inst : Not given.

Title : A Study of the Chemical Equilibrium in Esteri-
fication Reactions, With the Production of Tech-
nically Important Esters. II. The System Meth-
anol (Ethanol) - Acetic Acid - Methyl (Ethyl)
Acetate - Water.

Orig Pub: Studii si secretari stiint. Acad. RPR. Baga Tim-
isoara, Ser. stiinte chim., 1956, 3, No 1-2,
103-111.

Abstract: The chemical equilibria in the esterification re-
actions (E) of methanol (I) and ethanol (II) with

Card 1/4

RUMANIA / Chemical Technology. Chemical Products and H-15
Their Applications. Industrial Organic Syn-
thesis.

Abs Jour: Ref Zhur-Khimiya, No 28, 1958, 78566.

Abstract: acetic acid (III), with the formation of the cor-
responding esters (equimolecular amounts of alco-
hols and III at the boiling point of the mixtures,
were studied. The experiments were carried out
using different amounts of the sulfuric acid (IV)
(0.5-29%) and water as the diluent (0-50%). The
equilibrium takes place after boiling for one
hour and does not depend upon the concentration
of IV. At the equilibrium, both systems form a
homogeneous solution. Upon the addition of IV,
the mixture is heated and a partial E takes place,
and by the addition of large amounts of IV, reach-
es 97% at equilibrium. The losses of IV amounted
to ~20%, due to the oxidation of the impurities

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1

RUMANIA / Chemical Technology. Chemical Products and H-15
Their Applications. Industrial Organic Syn-
thesis.

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 78566.

Abstract: which depend on the degree of purity of the reagent. It was shown that IV acts only as a catalyst. The phenomenon also occurs when the concentration of IV is below 1%. The average value of the degree of E for I was 70.5% at 63-64°C, which corresponds to the equilibrium constant (K) of 5.75; for II it was 66.56% (at 78-82°C.), which corresponds to a K of 3.87. The determination of K for the systems n-C₃H₇OH (V) — III, and n-C₄H₉OH (VI) — III was carried out with excess alcohol (molecular ratio of alcohol : III is 2:1) to obtain a homogeneous solution at the equilibrium. The boiling point of the equilibrium mixture V — III is 85°C. and the concentration of

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PETREANU, T.

ba

Chemical equilibria in esterification reactions for esters of technical importance. II. Methanol (ethanol) acetic acid-methyl(ethyl) acetate (11). S. T. Petreanu and R. Petreanu. *Acad. Rep. Populare Romine, Ser. Stiinte Chim.* 3, No. 1/2, 103-11 (1966). cf. C.A. 50, 11778i. —The equil. of esterification in the reaction $ROH + AcOH \rightleftharpoons AcOR + HCl$ in presence of H_2SO_4 catalyst was studied for Me, Et, Pr, and Bu alcs. in homogeneous media. Unlike the case in heterogeneous media for BuOH and PrOH, the degree of esterification in homogeneous media is not modified by the concn. of catalyst. The equil. consts. of the AcOH esters are $K_0 = (CH_3COOR)(HOH)/(ROH)(CH_3COOH)$, and values for R are OH = 4.96; C₂H₅ = 2.97; C₃H₇ = 2.50.

4

11

PETREANU, FLORICA

Chemical equilibria in esterification reactions of technically important esters. The system butanol-acetic acid-butyl acetate-water. Stelian I. Tautu and Florica Petreanu. Acad. rep. populare Romine (Timisoara). *Studia chimica* (Iasi), 1, No. 1, 83-98 (1984) (French summary).
 The system BuOH-AcOH-BuOAc-H₂O was studied at 92-4° with varying amts. of H₂O (0-50%) and H₂SO₄ (0.05-4%). In the presence of H₂SO₄, equil. is attained within 1 hr. with most of the ester formed before boiling starts. The degree of esterification increases with increase in the amt. of H₂SO₄, within the given limits. A diagram showing the correlation between degree of esterification, H₂SO₄ concn., and aq. diln. is given. The equil. const. depends on distribution coeffs. As the equil. is shifted by removal of H₂O, the optimum amt. of H₂SO₄ depends upon the content of oxidizable impurities in the system and can be detd. by the acidity in H₂O.
 Gary Grant

Chem 2

100

PM

ARDELEAN, V.; PETREANU, I.; LAZARESCU, Gh. (Timisoara)

Meteorologic observations by students. Natura Geografie
16 no. 2: 48-49 Mr-Apr '64.

PETREANU, I.

D. RADIUS, Phil. Soc. Chair. Romania 1930, 20, 4-5

MAIER, H., Dr.; LENGHEL, L., dr.; MARGINEANU, C., dr.; PETREANU, R., dr.;
PANEA, E., dr.; CIUPE, M., dr.

Epidemiological and immunological role of natural sources of water in conditions of specific contamination. Rev. igiena microb. epidem., Bucur. Vol.3:19-35 July-Sept 55.

1. Lucrare executata in Institutul de Igiena, filiala Cluj si Filiala Cluj a Inst Dr. I Cantacuzino.

(WATER SUPPLY

contamination by sewage & waste from indust. plants causing epidemics of dysentery, typhoid & paratyphoid fever, in Rumania.

(SEWAGE

contamination of river water supply causing epidemics of dysentery, typhoid & paratyphoid fever, in Rumania.

(TYPHOID FEVER, epidemiol.

transm. by contamination of water supply by sewage, epidemiol. & immunol. study in Rumania.

(PARATYPHOID FEVERS, epidemiol.

(SAME)

(DYSENTERY

caused by contamination of water supply by sewage, epidemiol. & immunol. study in Rumania.

ZOLOTOVITSKIY, Ye.N. (Reutevo Moskevskoy oblasti); PETRAKOV, I.S. (Reutevo Moskevskoy oblasti).

Activity of the mathematics study section of the Moscow District
Institute for the Improvement of Teachers in the academic year
1955-56. Mat. v shkole no.5:82-85 S-0 '56. (MIRA 9:10)
(Moscow--Teachers, Training of)

GOLDA, V.; PETREK, J.; LISONEK, P.

Extent of the motor cortex in the posterior sigmoid gyrus
in the cat. Acta physiol. acad. sci. Hung, 24 no.1:95-100
'63.

1. Laboratory of Higher Nervous Activity and Department of
Anatomy, Palacky University, Olomouc, Czechoslovakia.
(CEREBRAL CORTEX)
(BRAIN ELECTROPHYSIOLOGY)
(ANATOMY)

PETREK, J.

SCIENCE

Periodicals: METEOROLOGICKE ZPRAVY. Vol. 11, no. 4/5, Oct. 1958

PETREK, J. Winds at Skalnaté Pleso during the years 1946-1955. p. 85

Monthly List of East European Accessions (EMAI) LC, Vol. 8, No. 5,
May 1959, Unclass .

PETREK, J.

PETREK, J. Outline of the climate of the Skainate Pleso Lake area based on a 15-year observation. p. 111. Vol. 9, no. 5/6, Dec. 1956. METEOROLOGICKE ZPAVY. Praha, Czechoslovakia.

SOURCE: EAST EUROPEAN ACCESSIONS LIST (EEAL) VOL 6 NO 4 APRIL 1957

GOLDA, V.; PETREK, J.; LISONEK, P.

Somatotopic projection of the extremities into the motor cortex
of the cat. Acta nerv. sup. (Praha) 6 no.4:397-399 '64.

1. Laborator vyssi nervove cinnosti a anatomicky ustav lekarske
fakulty Palackeho University, Olomouc.

GOLDA, V.; PETREK, J.; LISONEK, P.

Extraprimary evoked potentials in cerebral cortex of the cat at optical stimulation. *Activ. nerv. sup. (Praha)* 7 no.2:154-155 '65

Cortical potentials induced by acoustical stimulation in cats in a chronic experiment. *Ibid.*:156-157

1. Medical Faculty, Palackeho University, Olomouc, Lab. of Higher Nervous Activity and Department of Anatomy. 2. J.Petrek's address: Olomouc, Hnevotinska 3.

L 12970-66

ACC NR: AP6005646

SOURCE CODE: CZ/0079/65/007/002/0154/0155

AUTHOR: Golda, V.; Petrek, J.; Lidonsk, P.

ORG: Laboratory of Higher Nervous Activity, Medical School, Palacky University, Olomouc

23B

TITLE: Extraprimary evoked potentials in cerebral cortex of the cat upon optical stimulation [This paper was presented at the Third Interdisciplinary Conference on Experimental and Clinical Study of Higher Nervous Functions held in Marianske Lazne from 19 to 23 October 1964.]

SOURCE: Activitas nervosa superior, v. 7, no. 2, 1965, 154-155

TOPIC TAGS: cerebral cortex, experiment animal, light biologic effect, EEG, electrophysiology

ABSTRACT: Light stimulation was carried out with flashes of 0.25 msec at one sec. intervals. 4 cats with 22 epidurally implanted electrodes were used in the experiments. E.P. were recorded on an oscilloscope. EEG was continually traced. Primary EP in the gyrus lateralis had a latency of 16 msec. Short-latency optical potentials can be traced in cortical regions, including the gyrus moideus anterior and posterior, and in the gyruslateralis anterior. Dispersed elements of the optical analyser are found in all parts of the cerebral cortex. In extraprimary cortical responses, the axoapico-dendritic transsynaptic transmission predominates over the axo-somatic one. In the center cortical field the axo-somatic

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L 12970-66

ACC NR: AP6005646

transmission is accentuated. Mechanism of cooperation of analysors and the restitution of sensoric functions after partial cortex ablation are discussed.

Orig. art. has: 1 figure. [JPRS]

APPROVED FOR RELEASE: Wednesday, June 21, 2000

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SUB CODE: 06 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 007

Card 2/2 HW

L 12967-66

ACC NR: AP6005647

SOURCE CODE: CZ/0079/65/007/002/0156/0157
14
B

AUTHOR: Petrek, J.; Golda, V.; Lisonek, P.

ORG: Laboratory of Higher Nervous Activity, Department of Anatomy, Medical Faculty,
Palacky University, Olomouc

TITLE: Cortical potentials induced by acoustical stimulation in cats in chronic experiments [This paper was presented at the Third Interdisciplinary Conference on Experimental and Clinical Study of Higher Nervous Functions held in Marianske Lazne from 19 to 23 October 1964]

SOURCE: Activitas nervosa superior, v. 7, no. 2, 1965, 156-157

TOPIC TAGS: cerebral cortex, electrophysiology experiment animal, acoustic biologic effect

ABSTRACT: Experiments were carried out on freely moving cats with chronically implanted recording epidural electrodes. Even in areas outside the primary projection area, responses of short latency induced by acoustic stimulation can be recorded. The responses are formed by low-voltage positivity, followed by negativity with larger amplitude. Latency depends on the shape of EP. The amplitude of individual components and the shape of EP are influenced by the overall condition of the animal. Some part of the afferent fibers comes into the area of analysors from the subcortical structures. Short latencies of extraprimary EP indicate that the afferent pathways are oligosynaptic. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 06 / SUBM DATE: none / OTH REF: 005 / SOV REF: 003

Card 1/1 HW

Петренко О.П.
AUTHOR: Petrenchuk, O.P.

36-72-2/13

TITLE: Special Features of the Vertical Structure of Anticyclones
(Nekotoryye osobennosti vertikal'nogo stroyeniya antitsiklonov)

PERIODICAL: Trudy Glavnoy geofizicheskoy observatorii, 1957, Nr 72, pp. 19-32
(USSR)

ABSTRACT: The nature of the vertical structure in anticyclones is of great practical importance since they are the cause of scorching dry winds and droughts. The occurrence of inversion and stable layers, which prevent the development of thermal and dynamic turbulences, affects the character of clouds and precipitation and the emergence of stable fogs. These problems of inversion and of stable layers have not yet been satisfactorily solved. The writer arrives at the following conclusions, among others: 1) Changes in specific humidity with altitude do not cause temperature inversion in anticyclones. A better air-synoptic analysis and greater precision in air-sounding may result in more reliable data. 2) Unless the descending masses become very large, inversion in anticyclones cannot be caused by displacements alone. 3) The structure of stable layers in summer and winter anticyclones differ in the magnitude of the vertical temperature

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PETRENCHUK, O.P.

3(8) PHASE I BOOK EXPLOITATION SOV/2268
 Glebovye geofizicheskiye observatoriyi
 Voprosy fiziki atmosfery (Problems in Physics of the Atmosphere) Leningrad, Gidrometeoizdat, 1959. 74 p. (Series: Issl. Trudy, vpp. 82) Errata slip inserted. 1,200 copies printed.
 Sponsoring Agency: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Soveze Ministrov SSSR.

Ed. (Title page): M. S. Dzhibabin, Doctor of Physical and Mathematical Sciences; Ed. (Inside book): I. V. Ushakov; Tech. Ed.: M. I. Braynina.
 PURPOSE: This issue of the Observatory's Transactions is intended for students and members of synoptic meteorology as well as for professionals in the field.
 CONTENTS: This collection of articles is mainly concerned with the results of investigations on the physics of the atmosphere carried out in 1956-57 at the GDO Division for the Physics of Free Atmosphere. The authors discuss the development (formation) and disintegration of convective clouds and the relationship between the cloud structure and aircraft icing. A new method of effecting supercooled clouds is described. One article is devoted to an analysis of the frontal structure of anticyclones. A References accompany each article.

TABLE OF CONTENTS:

Krasilov, P. M., and G. A. Chikilova. Effect of Ammonium Chloride Addition on the Stability of Water Fog	41
Petrenchuk, O. P. Frontal Structure of Anticyclones	43
Sol'man, Ye. M. Methods of Radar Exploration of Cumulus Clouds	66

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fermentation, C.I.

PHASE I BOOK EXPLOITATION

SOV/3789

SOV/2-M-93

Leningrad. Glavnaya geofizicheskaya observatoriya imeni A.I. Voyeykova

Voprosy fiziki atmosfery (Problems in Physics of the Atmosphere) Leningrad, Gidrometeoizdat, 1959. 113 p. (Series: Its: Trudy, vyp. 93) 1,200 copies printed.

Sponsoring Agency: USSR. Sovet Ministrov. Glavnoye upravleniye gidrometeorologicheskoy sluzhby.

Ed. (Title page): Ye.S. Selezneva, Candidate of Physics and Mathematics;
Ed. (Inside book): N.M. Yasnogorodskaya; Tech. Ed.: A.N. Sergeev.

PURPOSE: This publication is intended for specialists in meteorology, aerology, and meteorological instrumentation.

COVERAGE: This collection of twelve articles contains the results of studies done under the auspices of the Glavnaya geofizicheskaya observatoriya imeni A.I. Voyeykova (Main Geophysical Observatory imeni A.I. Voyeykov). The first six articles give the results of aerological investigations of clouds, and the structure of anticyclones and local winds. The last six articles cover the

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Card 2/6

Problems in Physics of the Atmosphere

SOV/3789

trajectory of particles. With the use of this formula a theoretical model of the pressure tendency field is computed. The theoretical model is compared with the actual pressure tendency field.

Vasil'chenko, I.V. The Problem of a Stationary Convective Current
Different theories of several meteorologists concerning the problem of stationary convection current are analyzed. An attempt is made to arrive at a generally acceptable solution to this problem by solving a system of free convection equations, assuming that there is a power function relationship between the turbulence coefficient of the convective current and the altitude of the current source.

29

Meshcherskaya, A.V. Some Data on Vertical Velocities Near Mountain Passes

The author evaluates the magnitude of downward air currents near mountain passes as well as the characteristic of a transitional zone between air currents moving in different directions.

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Problems in Physics of the Atmosphere

SOV/3789

- Petrenchuk, O.P. Peculiarities of the Temperature Field in Anticyclones 47
On the basis of statistical analysis, the author describes the distribution of the horizontal temperature contrast as well as the frequency of stable layers and inversions according to altitude and the stage of development of anticyclones.
- Dergach, A.L. Effect of Radiation Fog on the Development of Temperature Inversion 56
The author analyzes some experimental data obtained by sounding the fog in the region of Dixon Island in 1956. The analysis leads to the conclusion that radiation inversions in the air layer near the ground are of a local character. Radiation fog, however, has a direct effect on the evolution of the inversion.
- Gashchin, G.P. Measuring the Ozone Content From Aircraft 60
The author outlines the methods and describes the equipment used in measuring the general ozone content from an airplane. Measurements were made by the optical method using an ozonimeter with filters. Results of the first eleven soundings in the Leningrad region in 1957-1958 are given. The data obtained are compared with ground measurements of ozone content made in the same region by means of a Dobson's spectrophotometer.

Card 4/6

Problems in Physics of the Atmosphere

SOV/3789

Korchigina, K.K., V.I. Myukhkyurya, and T.A. Smirnova.
Distribution of Brightness Over the Day and Night Sky

95

The authors give data on observations made during the summer of 1958 in Voyeykovo with an electrophotometer with a FEU-19 photomultiplier. A brief analysis of results is given.

Gushchin, G.P. Basic Tables for Calculating the General Atmospheric Ozone Content by Optical Observations

104

The article contains the tables used by the ozonometric stations in the USSR.

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7-29-60

L 12766-63

EWT(1)/BDS ASD/AFFTC/ESD-3 RB

58

S/169/63/000/004/005/017

AUTHOR: Drozdova, V. M., Petrenchuk, O. P., Selezneva, Ye. S.TITLE: The chemical composition of atmospheric precipitation as determined by investigations during the IGY and the International Geophysical Cooperation

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 4, 1963, abstract 4B120 (Sb. materialy konferentsiy po itogam MGG (1960) i meteorol. izuch. Antaraktidy (1959). M. Gidrometeoizdat, 1961, 187-206)

TEXT: During the IGY samples of atmospheric precipitation were taken systematically at 13 meteorological stations located in maritime, continental, and high-altitude regions of the USSR then sent to Leningrad for analysis. A total of 1,080 samples were analyzed; these included 246 summary monthly samples and 834 individual samples. SO_4^{--} , Cl^- , NO_3^- , HCO_3^- anions, Na^+ , K^+ , NH_4^+ , Mg^{++} , Ca^{++} cations, and also the pH were determined in these analyses. Annual charts as well as seasonal charts were compiled for each component. The relative prevalence of anions in decreasing order was SO_4^{--} HCO_3^- Cl^- NO_3^- ; for high-altitude and Central Asian stations

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The chemical composition of atmospheric precipitation...

8/169/63/000/004/005/017

 HCO_3^- SO_4^{--} Cl^- NO_3^- ; for cations in samples from maritime stations Na^+ Ca^{++} K^+ Mg^{++} ; and for continental stations Ca^{++} Na^+ K^+ Mg^{++} .

Differences in annual concentrations of SO_4 in precipitation were discovered in the charts: the concentration was minimal in the north and the northwest (3 mg/l), to the south it increased to 1.2 mg/l; the concentration was greater in the winter than in the summer. The Cl^- concentration was greater close to the sea and in the winter. The nitrogen concentration fluctuated on the average between 1 to 1.5 mg/l; the average annual pH value was 5.5 to 6.0 almost everywhere; some increase toward the south was noted in individual samples. The average amounts of these substances falling on one hectare in one year were calculated on the basis of these data. It was found that up to 10 - 15 kg/ha of sulfur fell in the south and 5 kg/ha in the north; Ca appeared in amounts of 15 - 20 kg/ha; Cl -- 5 to 7 kg/ha; nitrogen -- 3 to 5 kg/ha. The Cl^-/Na and $\text{SO}_4^{--}/\text{Cl}^-$ ratios were also determined; it was found that the first ratio

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The chemical composition of atmospheric precipitation...

was less than one for the entire European Part of the USSR, the second was equal to 2 at maritime stations and was larger inside the country. An analysis of all the data disclosed seasonal changes in the content of all admixtures in precipitation, the influence of continental sources for contamination of the atmosphere, and an increase in admixtures of marine origin in the maritime regions. There were 21 references.

[Abstracter's note: Complete translation.]

Card 3/3

PETRENCPUK, O.P.

Variation in the composition of atmospheric precipitation in the
Sverdlovsk region as dependent on meteorological conditions.

Trudy GGO no.141:28-35 '63.

(MIRA 17:4)

PETRENCHUK, O.P.; SELEZNEVA, Ye.S.

Variation in the concentration of principal chemical impurities
in precipitation as a function of meteorological conditions.
Trudy GGO no.134:14-25 '62. (MIRA 15:6)
(Precipitation (Meteorology))

ALEKSANDROV, N.N.; PETRENCHUK, G.P.

Methodology of sampling cloud water from an airplane. Trudy GGO
no.134:126-130 '62. (MIRA 15:6)
(Aeronautics in meteorology) (Clouds)

DROZDOVA, V.M.; PETRENCHUK, O.P.; SVISTOV, P.F.

Some data on the composition of cloud water. Trudy GGO no.134:
131-134 '62. (MIRA 15:6)

(Clouds)

DROZDOVA, Valentina Mikhaylovna; PENRENCHUK, Ol'ga Petrovna;
SELEZNEVA, Yevgeniya Semenovna; STISTOV, Petr Filippovich;
KAPITANETS, Ye.P., red.

[Chemical composition of the atmospheric precipitation in
the European territory of the U.S.S.R.] Khimicheskii sostav
atmosfernykh osadkov na Evropeiskoi territorii SSSR. [By]
V.M.Drozдова i dr. Leningrad, Gidrometeoizdat, 1964. 209 p.
(MIRA 17:5)

1. Otdel aerologicheskikh issledovaniy Glavnoy geofiziche-
skoy observatorii (for all except Kapitanets).

RUDENKO, Yevgeniy Ivanovich; TAUBE, Petr Reyngol'dovich;
PETRENCHUK, O.P., otv. red.; BOYKOVA, A.G., red.

[Fifth ocean] Piatyi okean. Leningrad, Gidrometeoizdat,
1965. 167 p. (MIRA 18:12)

PETRENCHUK, O. P.; LAVRENKO, R. F.; DRIZDOVA, B. M.; BELASHOVA, M. A.

"On the chemical composition of cloud water."

Paper to be presented at the Symposium on Atmospheric Chemistry, Circulation and Aerosols, Visby, Sweden, 18-25 Aug 1965.

Hydrometeorological Service USSR.

PETRENCHUK, O. P.; DROZDOVA, V. M.; BELYASHOVA, M. A.; LAVRINENKO, R. F.

"On Chemical Composition of Cloud Water."

report presented at mtg of Comm on Atmospheric Chemistry and Radioactivity of
the Intl Assn of Meteorology & Atmospheric Physics, Visby, Sweden, 18-25 Aug
1965.

PETKHEV, M.D., inzhener.

Installation of vibration dampers by means of an insulated pole.
Energetik 4 no.4:21-23 Ap '56. (MLRA 9:7)
(Electric lines--Overhead)

1, 1957, No. 1

15-57-1-118

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1,
p 17 (USSR)

AUTHOR: Petreneva, N. I.

TITLE: Devonian Brachiopods From ~~Molotov~~ **Kama** Region
and Udmurt ASSR (Brakhiopody devona Molotovskogo
Prikam'ya i Udmurskoy ASSR)

PERIODICAL: Tr. Vses. neft. n-i. geol-razved. in-ta, 1955, Nr 88,
pp 263-295

ABSTRACT: Brachiopods of 52 species and 16 genera were classified
with a different degree of accuracy (cf., aff., ex jr.)
in 29 samples obtained from drill holes. The lime-
stone-lead and the Biysk layers, most clearly developed
in the Krasnokamsk, Severokamsk and Polazna, and
constituting parts of the Zhivetskiy **yarus** (**stage**), were more
or less completely determined by their brachiopod
content. The upper Zhivetskiy **pod^oyarus** (**substage**) is absent

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15-57-1-118

Devonian Brachiopods (Cont.)

in

/this district, and the Upper Devonian Pashiya strata lie directly on the Biysk or on the older deposits. In the Frankian stage, brachiopods are found in the Pashiyskiye (rarely), Kynovskiye (especially rich in the brachiopods) and the Sargayvskiye, Domanikovskiye, Mendymskiye and Aksynskiye sloi (strat). The Famennian stage represented by limestones and dolomites with layers of anhydrite, contains little fauna and is subdivided into smaller stratigraphic structures. In all, 16 forms are described and illustrated.

T. G. S.

Card 2/2

PETRENKA, JAN

Statny rozpocet Ceskoslovenskej Socialistickej Republiky [by] Josef Rosa
[a] Jan Petrenka [Bratislava] Slovenske Vyd-vo Politickej Literatiry, 1961.
352 p. tables.
"...ako ucebica pre vyscke skoly."
Bibliography: p. 352.

ZUB, G., kand. tekhn. nauk; PETRENKO, A.; ZINOV'YEV, V.; IVANOV, Yu.,
kand. tekhn. nauk; KUDRYASHOV, N.; DUDOLADOV, Ye.

Information. Avt. transp. 43 no.2:54-60 F '65.

(MIRA 18:6)

1. Direktor Ukrainskogo dorozhno-transportnogo nauchno-issledovatel'skogo instituta (for Zub). 2. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta (for Ivanov).

PETRENKO A

ROMANIA / Farm Animals. Hogs.

U-6

Abs Jour : Ref Zhur - Biologiya, No 16, 1957, 72108

Author : Isianov, S., Petrenko, A.
Title : Our experiments With Pig Feed.

Orig Pub : Rev. Ind. Aliment. Prod. Animale, 1956, No 1, 17-19

Abstract : No abstract

Card : 1/1

- 37 -

DEMIDOV, A., kandidat tekhnicheskikh nauk; LUTKIN, N., kandidat tekhnicheskikh nauk; DEMIN, G., kandidat tekhnicheskikh nauk; MALIS, A., kandidat tekhnicheskikh nauk; PETRENKO, A., inzhener; GERLAKH, L., inzhener; FROLOV, N., inzhener.

Mobile grain-drying unit. Muk.-elev.prom.22 no.12:3-5 D '56.
(MLBA 10:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov ego pererabotki (for Demidov, Lutkin, Demin, Malis and Petrenko).
2. Altayskaya kontora Zagotserno (for Gerlakh).
3. Tekhnicheskiy otdel Ministerstva khleboproduktov SSSR (for Frolov).

(Grain--Drying)

PETRENKO, A.

3158. DEWATERING COAL IN CENTRIFUGES. Petrenko, A. (Koslov Ugl'n
(Koslov Coalbr., Moscow), Mar. 1958, 17, 18). Results of the operation of
vertical dewatering centrifuges at a coal preparation plant are reported. It
has been established that the presence of coarse slurrles in the coal concentrate
treated reduces the efficiency of the dewatering process. Efficiency is also
adversely affected by irregularities in the feeding of coal into the centrifuges
and its distribution over the screen area, and also by any impurities contained
in the recirculating water. Minor improvements of the design of the centrifuge
screens and of the lubricating system are described. N.C.B.

PETRENKO, A.

Achievements of a coal preparation team. Mast. ugl. 4 no.2:15-
16 P '55. (MLRA 8:6)

1. Nachal'nik obogatitel'nogo tsakha Dobropol'skoy Tsentral'-
noy Obogatitel'noy Fabriki.
(Dobropolye--Coal preparation)

PETRENKO, A.A.

36614. Stratigrafiya i Usloviya Zaleganiya Karbonovykh Otlozheniy Yugo-Vostochnoy Chasti Yuzhnogo Urala. Izvestiya Akad. Nauk SSSR, Seriya Geol., 1949, o. 6, c. 165-88

SO: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949

IS'YANOV, S.; PETHENKO, A., glavnyy zootekhnik.

Our experience in fattening swine. Mas.ind.SSSR 26 no.5:39-41
'55. (MIRA 9:2)

1.Upravlyayushchiy Kiyevskoy oblastney skotozagotovitel'noy
kontorey (for Is'yanov).
(Swine--Feeding and feeding stuffs)

Marking, etc.

Vostochnyye stranitsy i Rossiya. Vostochnyye stranitsy i Rossiya. [The ... of ... of
Russia; no title ... / Moscow, ... 1-2. ...]

SO: East. Lia. of Russia, Vol. ...

PETRENKO, A.. inzhener.

Dewatering coal in centrifuges. Mast.ugl. 5 no.3:17-18 Mr '56.
(MLRA 9:7)

1. Dobropol'skaya tsentral'naya obogatitel'naya fabrika.
(Coal preparation)

ZABOLOTSKIY, T.;MATEVYEVA, P.;PETRENKO, A.

Primary organization of the institute serves enterprises. NTO no.12:
53 D '59 (MIRA 13:3)

1. Chleny Vsesoyuznogo khimicheskogo obshchestva imeni Mendeleeva
Khimiko-metalluricheskogo instituta (g. Novosibirsk).
(Novosibirsk--Research, Industrial)

PETRENKO, A.

"The foot and problems of better fitting shoe construction."
Kozh.-obuv.prom. 3 no.7:40 J1 '61. (MIRA 14:9)
(Shoe manufacture) (Foot-Research)

PETRENS, A.

... **le** ... the ... **administ** ...
... the ...
... no. 2:79 01 (1). (T. 11-11)
(Yozov Province--Shipbuilding--Congresses)

ISRAYELIAN, M.G.; PETRENKO, A.A.; TEYMURAZYAN, R.A.; KHODZHAYANTS, Yu.M.

Measuring oxide concentrations in liquid-metal heat carriers.

Izv. AN Arm. SSR. Ser. tekhn. nauk 16 no.6:3-10 '63.

(MIRA 17:1)

L 41371-65 EWT(a)/EEC(m)/EWT(m)/EPF(c)/EPF(n)-2/ENG(m)/SPR/SPA(h) PO-47
Pq-4/Pr-4/Ps-4/Pu-4/Pl-4 WW
ACCESSION NR: AP5003057 S/0119/65/000/001/0023/0025
40
8

AUTHOR: Petranko, A. A.

TITLE: Experience with the use of pressure and level gages in a fast-reactor system

SOURCE: Priborostroyeniye, no. 1, 1965, 23-25

TOPIC TAGS: fast reactor, level gage, nuclear reactor, pressure gage

ABSTRACT: Some modifications of previously developed pressure and level gages for Na and NaK coolants to make them suitable for use in a BK-5 fast reactor are described. The temperature range of an RUM-type radio-wave level gage, developed by the Scientific-Research Institute of Heat- and Power-Engineering Equipment was raised from 250 to 350C by replacing the gage's seal, which made it suitable for coolant temperatures up to 500C. The reliability of a potentiometer-type level gage was increased by replacing the sectional construction of the sensor (tube) with a simple stainless steel tube with a 1 mm wall thickness. The use of steam for maintaining a constant tempera-

Card 1/2

L 41371-63

ACCESSION NR: AP5003057

ture for an MEM-3-M pressure gage was replaced by electric heating, thus simplifying the gage's design and preventing the contact of steam with Na or NaK. The modified pressure gage was found to be suitable for coolant temperatures up to 500C. Some future trends in development of instruments for measuring Na and NaK parameters are discussed. Orig. art. has: 6 figures. [BP]

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

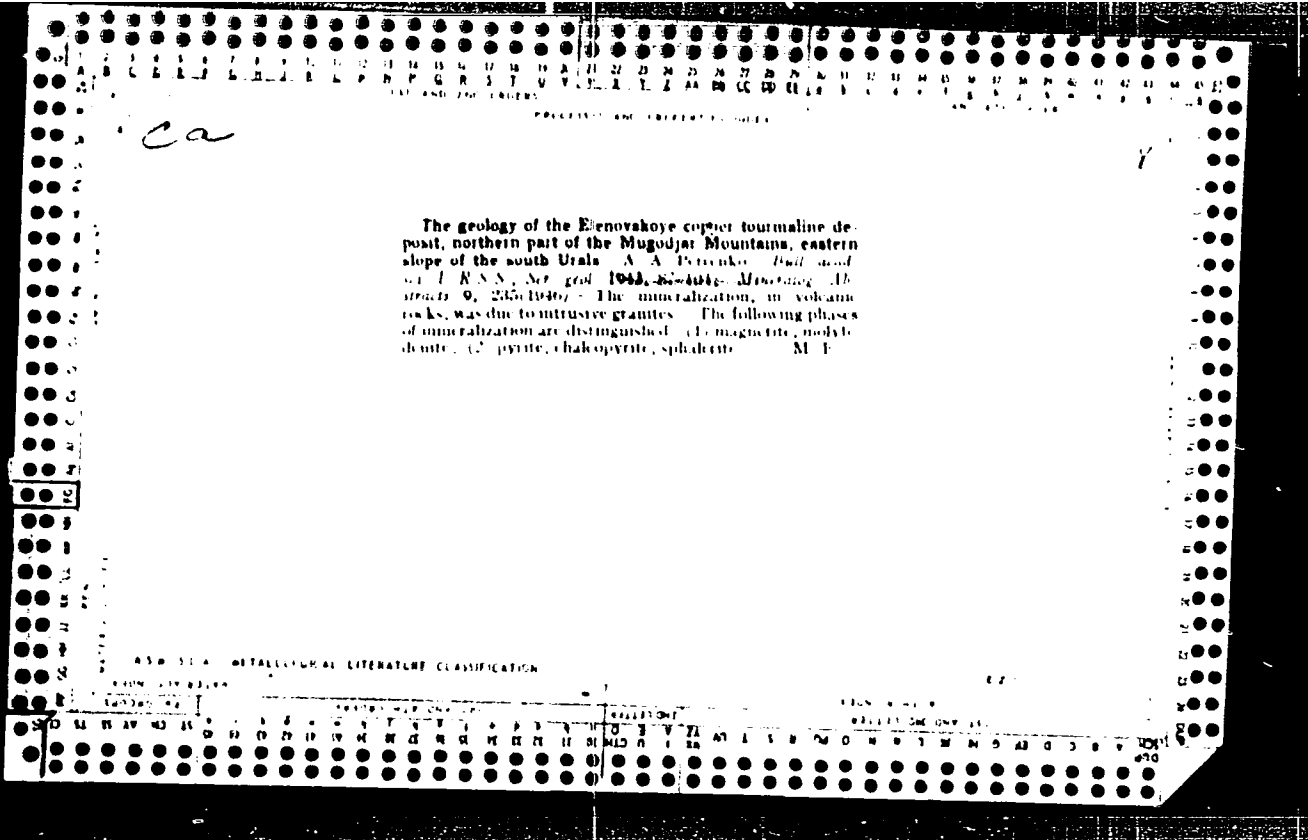
SUB CODE: NP, IE

NO REF SOV: 003

OTHER: 001

ATD PRESS: 3168

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Card 2/2



PETRENKO , A. A.

Geography &Geology

(Geological structure of the western coast of Novaya Zemlya between Russian Harbor and Archangel Bay) Moskva, Izd-vo Glavsevmorputi, 1945.

9. Monthly List of Russian Accessions, Library of Congress, July 195~~2~~ Unclassified.

PETRENKO, A. A.

USSR/Geological Prospecting
Coal
Oct 1947

"The Lower Rock Coal Deposits of Rock and Anthracite
Coal of the Southern Urals," A. A. Petrenko, 175 pp

"Trudy Inst Geol Nauk" No 79, Coal Series No 1

Entire book is description of lower coal deposits of
southern Urals. Discusses general status and geo-
graphical location, stratigraphy, tectonics, coal-
bearing capacity, and general hopes and future devel-
opments of following coal deposits: Ber-Chogur,
Dobsharvsk, Bredinsk, Poltav, Borodin, Il'yas, Nabe-
Dymashak, and Zhirn'-Agola. One chapter discusses
coal resources of eastern slopes of southern Urals,
and mentions deposits of Savvuduk-Abdushar belt,
Urus-Kishin belt, Fritopol'sk belt, Verkhnerel'sk
belt of coal rock, and Koyelgin belt. Chapter ten
evaluates coal deposits mentioned. Last chapter ten
describes formation of coal-bearing layers of eastern
slopes of southern Urals. Mentions possible coal
deposits at Dobarbonov and East-Ural coal basin.

IS

57255

PETRENKO, A. A.

"The role and significance of ancient strata in the tectonic regionalization of the eastern slope of the Southern Urals", Byulleten' Mosk. o-va Ispytateley prirody, otd. geol., 1949, Issue 1, p. 3-37,--Bibliog: 34 items

SO: U-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 21, 1949)

PETRENKO, A. A.

PA 152T42

USSR/Geology - Stratification
Carboniferous Deposits

Nov/Dec 49

"Stratigraphy and the Conditions Governing the Stratification of Carboniferous Deposits of the Southeastern Part of the Southern Urals," A. A. Petrenko, 24 pp

"Iz Ak Nauk SSSR, Ser Geol" No 6

Describes subject deposits, which were not studied until recently. Fundamental characteristic of the occurrence of these deposits is that they are not connected by gradual transitions with Upper Devonian deposits, but lie on the eroded surface of various Paleozoic and pre-Paleozoic strata in the form of syncline structures of the superimposed type.

152T42

PETRENKO, A.A.

Role and importance of ancient formations in the tectonic division
of the southern slope of the Urals. *Biul. MOIP. Otd. geol.* 24 no.1:
3-37 '49. (MIRA 11:5)

(Ural Mountains--Geology, Structural)

PETRENKO, A. A.

116. PROCEEDINGS OF LABORATORY OF COAL GEOLOGY, ACADEMY OF SCIENCES
 U.S.S.R. (TRUST LABORATORII GEOLOGII UGLEIA AKADEMII NAUK, VIP. II,
 Petrenko, A.A. (Leningrad: Akad. Nauk SSSR, 1953, 30pp., 32.50 rubs;
 abstr. in Vestn. Akad. Nauk SSSR, Jan. 1954, 130). Papers on
 carboniferous strata on the eastern slope of central and southern Urals and
 on the Northern Mugodzhary plateau.

②

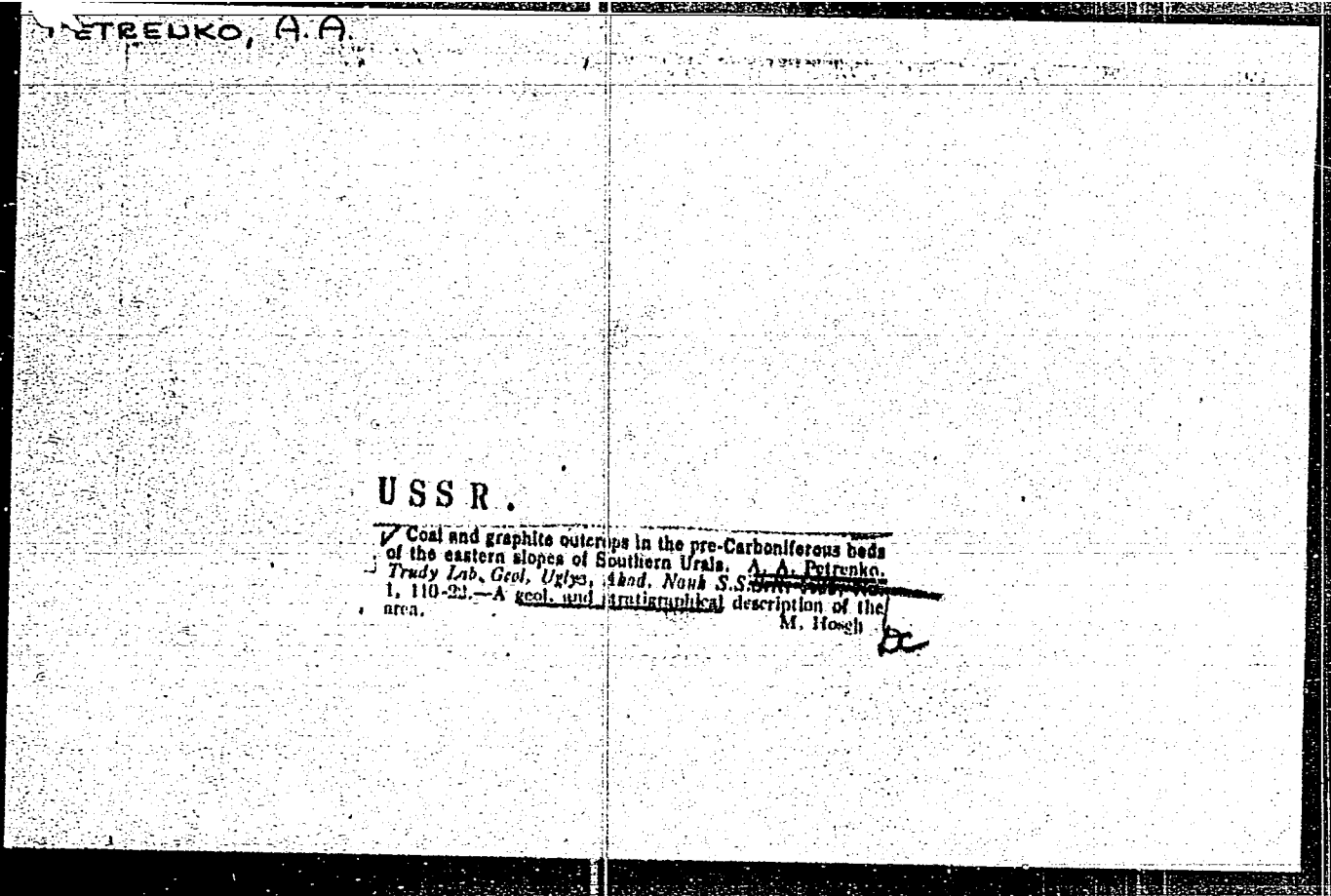
10/13/54 LM

PETRENKO, A.A.

USSR

East Ural belt of Lower Carboniferous period of coal formation. A.A. Petrenko, Trudy Lab. Geol. Uraly, Akad. Nauk S.S.S.R., 1953, No. 1, 5-100. - A geol. and petrographical description of the area. Extensive bibliography. M. Hosen

DC



PETRENKO A.A.

USSR.

Geological structure of the Northern Mugodzhur (the Kazakh part of the Southern Urals). A. A. Petrenko. *Trudy Lab. Geol. Ugl'n, Akad. Nauk S.S.S.R.* 1957, 123-300. — An extensive geol. and petrographical description of the area.

M. Hosh

20

BYKOVA, M.S.; KUSHEV, G.L.; MEDOYEV, G.Ts.; SHLYGIN, Ye.D.; PETRENKO, A.A.;
RITENBERG, M.I.

Concerning A.A.Petrenko and M.I.Ritenberg's article "Conditions of the formation and the age of carboniferous deposits of the Karaganda series in the Karaganda Basin." *Izv.AN SSSR. Ser.geol.* no.4:125-131 J1-Ag '53.

(Karaganda Basin--Geology) (Geology--Karaganda Basin) (MLHA 6:8)
(Petrenko, A.A.) (Ritenberg, M.I.)

PETRENKO, A.A.

Letter to the editor of "Izvestiia AN SSSR, Seriya geologicheskaiia."
Izv. AN SSSR. Ser. geol. no. 6:129-130 N-D '53. (MLHA 7:1)
(Karaganda basin--Geology) (Geology--Karaganda
basin)

PETRENKO, A.A.

Geotectonic and paleogeographic formations of coal-bearing deposits
of the Carboniferous in central Kazakhstan. Trudy Lab.geol.ugl. no.2:
21-62 '54. (MIRA 8:7)
(Kazakhstan--Coal geology) (Kazakhstan--Geology, Structural)

PETRENKO, A.A.

Stratigraphy and age of coal-bearing deposits of the Carboniferous in
central Kazakhstan in the light of the most recent investigations.
Trudy Lab.geol.ugl. no.2:93-127 '54. (MLRA 8:7)
(Kazakhstan--Geology, Stratigraphic) (Kazakhstan--Coal geology)

PETRENKO, A. A.

USSR/Mining - Petrography

Card : 1/1

Authors : Petrenko, A. A., and Rengarten, N. V.

Title : Development of phosphates in the lower coal-bearing strata of the Karagandinsk Basin and the Zavyalovsk coal region

Periodical : Dokl. AN SSSR, 97, Ed. 2, 319 - 322, July 1954

Abstract : Report deals in the discovery of phosphates in lower coal-bearing strata of Karagandinsk and Zavyalovsk coal regions. Microscopic study of the phosphorites showed that the latter contain fine quartz grains, traces of feldspar, silicon, etc. Three references.

Institution : Acad. of Sc. USSR, Sections of Geological-Geographic Sciences, Coal Geology Laboratory

Presented by : Academician D. V. Nalivkin, May 11, 1954

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,
p 145 (USSR) 15-57-4-5078

AUTHOR: Petrenko, A. A.

TITLE: Structure Tectonics and Paleogeography of Bol'shaya Karaganda . . . (Problema Bol'shoy Karagandy i yeye strukturno-tektonicheskoye i paleogeograficheskoye obosnovaniya)

PERIODICAL: Tr. Labor. geol. uglya AN SSSR, 1956, Nr 6, pp 478-488

ABSTRACT: Bol'shaya Karaganda Region is a synclinal flexure 350 to 400 km long. It extends from the sources of the Kulan-Utmes River on the west to the Dzhil'dy-Tau Mountains on the east and runs parallel to the Tek-turmasskomyy anticlinorium. The original deformation formed a single syncline and is dated as Caledonian. It was divided by saddle-shaped arches into a number

Card 1/2

Structure Tectonics and Paleogeography (Cont.)

15-57-4-5078

of synclines in the last stages of Hercynian folding; these synclines were completely isolated by later erosion. The existence of new coal-bearing areas in the direction of regression of the Carboniferous sea is possible. These would lie to the west and partly to the southwest of the present boundaries of the Karaganda basin.

Card 2/2

A. I. Ye.

AUTHORS: Petrenko, A. A., Migilev, A. Ye 20-119 1-41/52

TITLE: On the Structural-Tectonic Peculiarities of the Yegorshinskaya Carboniferous Zone in the Ural Mountains (O strukturno-tektonicheskikh osobennostyakh Yegorshinskoy uglenonoy polosy na Urale)

PERIODICAL: Doklady Akademii Nauk SSSR 1958 Vol 119 Nr pp 150-153 (USSR)

ABSTRACT: These deposits (Ref 3) show a strong tectonic disturbance. Due to their complication their structure remained undetermined for a long time. The closed type of the coal deposit and the lack of geological exploring works which surpass the boundaries of the carboniferous zone rendered the further study of the deposit difficult. A survey of publications on this problem is given (Refs 2, 4, 5, 8). The occurrence of stigmery grounds of numerous remains of roots interwoven with each other which are vertical to the layers of the coal bed indicates a normal, non-overturned position of the beds. Another important characteristic of the exposure is a gradual decrease in the thickness of the transition from the carboni-

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On the Structural-Tectonic Peculiarities of the Yegorshinskaya Carboniferous Zone in the Ural Mountains

1952

ferous Yegorshinskaya suite to the coal-free Barsunskaya, which lies farther up. Finally, the lithological-facial data indicate that the two just mentioned suites belong to a cycle of sedimentation which is characterized by fauna and flora of the Visé and partially the Namur-stage of the Lower Carboniferous. The two suites have a close genetic connection. The author discusses against the statements of Ref 7 which revive the idea (Ref 8) already refuted long ago that the position of this coal deposit was overturned toward the east. The contact of the Devonian deposits with the carboniferous mass is everywhere accompanied by a thick zone of highly crushed and crumpled rocks of a thickness up to several dozen meters. Thus this contact is of a distinctly tectonic nature. From these facts follows that a correct interpretation of the tectonic peculiarities of several carboniferous deposits is of great importance for the understanding of the stratigraphic interrelations of individual parts of the cross section of the carboniferous Carboniferous, their paleogeography and conditions of formation. There are 1 figure and 8 references, 8 of which are Soviet.

Card 2/3

PETRENKO, A.A.

Some regularities in the distribution of Carboniferous coal-bearing sediments on the eastern slope of the Urals and in Kazakhstan. Zakon.razm.polezn.iskop. 3:217-226 '60.

(MIRA 14:11)

1. Laboratoriya geologii uglya AN SSSR.
(Ural Mountains--Coal geology)
(Kazakhstan--Coal geology)

PETRENKO, A.A , inzh.; SMIRNOV, V.N , inzh.

New systems of mining operations. Mekh.i avtom.proizv. 15 no.11.
41-43 N 61. (MIRA 14:11)
(Mining engineering--Technological innovations)

VOLKOVA, I.B.; NALIVKIN, D.V.; SLATVINSKAYA, Ye.A.; BOGOMAZOV, V.M.;
 GAVRILOVA, O.I.; GUREVICH, A.B.; MUDROV, A.M.; NIKOL'SKIY, V.M.;
 OSHURKOVA, M.V.; PETRENKO, A.A.; POGREBITSKIY, Ye.O.; RITENBERG,
 M.I.; BOCHKOVSKIY, F.A.; KIM, N.G.; LUSHCHIKHIN, G.M.; LYUEER,
 A.A.; MAKEDONTSOV, A.V.; SENDERZON, E.M.; SINITSYN, V.M.; SHORIN,
 V.P.; BELYANKIN, L.F.; VAL'TS, I.E.; VLASOV, V.M.; ISHINA, T.A.;
 KONIVETS, V.I.; MARKOVICH, Ye.M.; MOKRINSKIY, V.V.; PROSVIRYAKOVA,
 Z.P.; RADCHENKO, O.A.; SEMERIKOV, A.A.; FADDEYEVA, Z.I.; BUTOVA,
 Ye.P.; VERBITSKAYA, Z.I.; DZENS-LITOVSKAYA, O.A.; DUBAR', G.P.;
 IVANOV, N.V.; KARPOV, N.F.; KOLESNIKOV, Ch.M.; NEFED'YEV, L.P.;
 POPOV, G.G.; SHTEMPEL', B.M.; KIRYUKOV, V.V.; LAVROV, V.V.;
 SAL'NIKOV, B.A.; MONAKHOVA, L.P.[deceased]; MURATOV, M.V.;
 GORSKIY, I.I., glav. red.; GUSEV, A.I., red.; MOLCHANOV, I.I.,
 red.; TYZHOV, A.V., red.; SHABAROV, N.V., red.; YAVORSKIY, V.I.,
 red.; REYKHERT, L.A., red.izd-va; ZAMARAYEVA, R.A., tekhn. red

[Atlas of maps of coal deposits of the U.S.S.R.] Atlas kart ugle-
 nakoplenia na territorii SSSR. Glav. red. I.I.Gorski. Zam.
 glav. red. V.V.Mokrinski. Chleny red. kollegii: F.A.Bochkovski
 i dr. Moskva, Izd-vo Akad. nauk SSSR, 1962. 17 p.

(MIRA 16:3)

1. Akademiya nauk SSSR. Laboratoriya geologii uglya. 2. Chlen-
 korrespondent Akademii nauk SSSR (for Muratov).

(Coal geology--Maps)

SLATVINSKAYA, Yelena Alekseyevna; Prinsipali uchastiye: MONAKHOVA, L.P.;
ISHINA, T.A.; PETRENKO, A.A., doktor geol.-miner.nauk, otv.red.;
DELMATOV, P.S., red.izd-va; SOROKINA, V.A., tekhn.red.

[Conditions governing the formation of the coal-bearing
Carboniferous in central Kazakhstan; Ak-Kuduk and Ashlarik series]
Usloviia obrazovaniia ughenosnogo karbona TSentral'nogo Kazakhstana;
akkudukekaia i ashliarikskaia svity. Moskva, Izd-vo Akad.nauk SSSR,
1962. 126 p. 16 plates. (Akademiia nauk SSSR. Laboratoriia
geologii ughia, Trudy, no.14). (MIRA 15:4)
(Kazakhstan--Coal geology)

PETRENKO, A.A., gornyy inzh.; SMIRNOV, V.N., gornyy inzh.

Practice of using hardening filler in a mine. Gor. zhur. no.9:
32-34 S '62. (MIRA 15:9)
(Mine filling)

GORELIK, L.V., kand. tekhn. nauk; PETRENKO, A.A., inzh.

Microanisotropy of water saturated sands. Izv. VNIIG 76:299-304
'64. (MIRA 18:10)

PETRENKO, A.A. [deceased]

Features of Carboniferous geotectonic movements in the Urals
and trans-Urals. Izv. vys. ucheb. zav.; geol. i razv. 7 no.12:
45-47 D '64. (MIRA 18:12)

1. Laboratoriya geologii uglya Vsesoyuznogo nauchno-issledova-
tel'skogo geologicheskogo instituta.

ACC NR: AM6035014

(A)

Monograph

UR/

Rifontov, Boris Ivanovich; Kireyev, Vasily Vasil'yevich; Kisilevich, Yevgeniy Mefodiyevich; Vol'ftrub, Iosif Arturovich; Sadkovich, Yan Fedorovich; Golomolzin, Arkadiy Ivanovich; Petrunko, Andrey Afans'yevich

Construction of underground structures (Stroitel'stvo podzemnykh sooruzheniy)
Moscow. Izd-vo "Nedra", 1966. 293 p. illus., biblio. 2450 copies printed.

TOPIC TAGS: construction , mining engineering

PURPOSE AND COVERAGE: This book is intended for engineering and technical workers of construction, scientific-research, and design organizations studying the problems of building underground installations; it can also be used by workers of mine-construction organizations. In the book are discussed the basic problems of conducting mining operations during the construction of underground installations. There are 97 references, 72 of which are Soviet.

TABLE OF CONTENTS [abridged]

- Ch. I. Basic methods of conducting mining operations during construction of underground chambers -- 9
- Ch. II. Foreign experience in conducting mining operations during construction of underground chambers -- 22
- Ch. III. Drilling boreholes and blast holes -- 55

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ACC NR: AM6035814

- Ch. IV. Blasting operations -- 83
- Ch. V. Mechanization of underground loading and transportation operations -- 118
- Ch. VI. Progressive methods of reinforcing mining excavations -- 145
- Ch. VII. Methods of excavating underground chambers in hard rocks -- 175
- Ch. VIII. Excavation methods providing for chamber-wall reinforcement during the excavation of a massif -- 178
- Ch. IX. Excavation methods by which chamber walls remain open during excavation -- 224
- Ch. X. Examples of calculations relative to work organization and the selection of equipment -- 233
- Ch. XI. Ventilation and dust suppression during the excavation of underground chambers -- 249
- Ch. XII. Several problems of underground installation stability -- 280

SUB CODE: 08, 13/

SUBM DATE: 03May66/

ORIG REF: 076/

OTB REF: 029/

Cord 2/2

PETRENKO, A. D.

Motion pictures on plant protection. Zashch. rast. ot vred.
1 bol. 6 no.6:63 Je '61. (MIRA 16:4)

(Motion pictures in agriculture)
(Plants, Protection of)

PETRENKO, A.D.

Pneumatic amplifiers. Priborostroenie no.2:18-19 F '62.
(MIRA 15:2)

(Pneumatic machinery)

PETRENKO, A.D.

Motion picture on plant protection produced during 1961. Zashch.
rast.ot vred.i bol. 7 no.6:62 Je '62. (MIRA 15:12)
(Motion picture in agriculture) (Plants, Protection of)

PETRENKO, A.D.

Motion pictures on plant protection. Zashch. rast. ot vred.
1 bol. 8 no.4:60 Ap '63. (MIRA 16:10)

(Motion pictures in agriculture)

PETRENKO, A.D.

Automation of the drainage systems in Krivoy Rog Basin mines.
Prom.energ. 16 no.7:35-39 J1 '61. (MIRA 15:1)
(Krivoy Rog Basin--Mine drainage)
(Automatic control)

S/119/62/000/002/006/010
D201/D301

AUTHOR: Petrenko, A.D.

TITLE: Pneumatic amplifiers

PERIODICAL: Priborostroyeniye, no. 2, 1962, 18-19

TEXT: The author describes the pneumatic power and power pressure amplifiers for the automatic control systems developed at the NIITeplopribor. The dimensions and weight of the power amplifier unit are 46 x 46 x 38 mm and 0.6 kg respectively, those of the power and pressure amplifier 50 x 50 x 48 mm and 0.75 kg. The principle of operation of the pneumatic power amplifier is as follows: The supply air enters the high pressure chamber, from which it goes through a ball valve to the output chambers. The pressure in these is determined by the effective area of a diaphragm and the force of a spring. At this pressure the air passes through a constant throttle into a chamber and into the nozzle circuit. When the pressure in the circuit increases, a second diaphragm closes the

Card 1/2

Pneumatic amplifiers

S/119/62/000/002/006/010
D201/D301

second ball valve of the outlet into the atmosphere and the first diaphragm opens the ball power valve. The pressure in the chambers increases until the equilibrium of forces at the diaphragms is restored. In this manner a unit pressure increase in the circuit of the nozzle corresponds to a unit pressure increase of the output pressure, i.e. there is a constant pressure difference at the nozzle. The principle of operation of the pneumatic power and pressure amplifier is also described. Statistical characteristics of the amplifiers are given. Both amplifiers are in use with mass produced instruments at the 'Tizpribor' plant of the Mosgorsovnarkhoz and at the 'Teplokontrol' plant of the Tatarskiy sovnarkhoz. There are 4 figures

Card 2/2

L 23580-66 ENT(1)/ENT(m)/EPF(D)-2/ETC(m)-6 WW/JM/RM
ACC NR: AM6007924 Monograph

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Petrenko, Aleksandr Dmitriyevich

Principles of heat engineering and marine power installations (Osnovy teplotekhniki i sudovyye silovyye ustanovki) [Leningrad] Izd-vo "Sudostroyeniye", 1965. 362 p. illus., biblio. Textbook for shipbuilding institutes. 4000 copies printed.

TOPIC TAGS: marine engineering, marine power plant, steam turbine, gas turbine, internal-combustion engine, thermodynamics, fuel, heat engineering, ship component, shipbuilding engineering

PURPOSE AND COVERAGE: This textbook is intended for students in nonengineering specialties in shipbuilding, marine, and arctic-navigation schools; it may also be used in command-staff schools of the merchant and river fleets. Principles of heat engineering are presented, and the construction and operating principles of main and auxiliary marine power plants are reviewed. Heat diagrams and data necessary for the proper selection and placement of marine power plants are discussed together with basic information on their automation. Particular attention is given to marine steam and gas turbines. The author acknowledges the assistance of engineers Yu. V. Orlov and N. V. Samoylov in preparing the textbook.

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UDC: 629.12.02

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ACC NR: AM6007924

TABLE OF CONTENTS [abridged]:

Foreword -- 3

Introduction. General information on marine power plants and engineering thermodynamics -- 5

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Ch. I. Heat Energy. Basic parameters of state of gaseous media. The first law of thermodynamics -- 12

Ch. II. Gas laws -- 19

Ch. III. The heat capacity of gases -- 24

Ch. IV. Thermodynamic processes of gases -- 40

Ch. V. Cyclic processes. The second law of thermodynamics -- 57

Ch. VI. The thermodynamics of water vapor -- 79

Ch. VII. Heat transfer -- 98

Part Two. Marine Power Plants -- 110

Ch. VIII. Fuel -- 110

Ch. IX. Marine steam boilers -- 117

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ACC NR: AM6007924

- Ch. X. Marine steam piston machinery -- 160
- Ch. XI. Marine turbines -- 172
- Ch. XII. Marine internal-combustion engines -- 226
- Ch. XIII. Marine auxiliary machinery -- 268
- Ch. XIV. Marine shafts and power transmission to the propeller -- 293
- Ch. XV. Specific features of marine power plants -- 304
- Ch. XVI. Principles in the automation of marine power plants -- 346

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SUB CODE: 13, 32/ SUBM DATE: 28Sep65/ ORIG REF: 042/

Card 3/3 *dda*

AUTHOR: Petrenko, A.G., Smirnova, A.V. and Kurtova, L.A. 133-5-18/27

TITLE: Plasticity of cold rolled transformer steel (Plastichnost' kholodnokatanoy transformatornoy stali)

PERIODICAL: "Stal'" (Steel) 1957, No.5, pp. 453 - 456 (U.S.S.R.)

ABSTRACT: An investigation of the microstructure of specimens of cold rolled transformer steel, produced in the Kuznetsk Works and rolled in the Novosibirsk Works, was carried out. It was found that along the grain boundaries and inside silicon-ferrite grains a carbide phase containing silicon was present. In specimens of unsatisfactory plasticity the separated carbide phase of a peculiar form is situated along grain boundaries and inside grains, while in specimens with satisfactory plasticity the carbide phase is separated in the form of globules, mainly inside the grains of silicon ferrite. Total proportion of the carbide phase in brittle specimens is higher than in non-brittle ones. Secondary heat treatment at 750 - 850 °C decreases the amount of carbide phase and increases the plasticity of steel. The microstructures of various specimens with an indication of the etching method used is shown in Figs. 1-6. There are 6 figures and 4 references, 2 of which are Slavic.

Card 1/2

Plasticity of cold rolled transformer steel. (Cont.)

ASSOCIATION: TsNIChM

133-5-18/27

AVAILABLE:

Card 2/2

PETRENKO, A.G.

[Harvesting, drying, storing, and primary processing of yellow
cigarette tobacco] Uborka, sushka, khranenie i pervichnaia
obrabotka zheltykh papirosnykh tabakov. Moskva, Pishcheprom-
izdat, 1950. 79 p. (MIRA 13:8)
(Tobacco)

L 13790-65 EWT(1)/EEC(b)-2/EWA(h) Feb SSD/AFWL/RAEM(1)/ESD(c)/ESD(dp)/
ESD(ga)/ESD(t)

ACCESSION NR: AP4047247

S/0142/64/007/004/0504/0511

AUTHOR: Petrenko, A. I.; Yelisseyev, V. K.

TITLE: Electrical design of the elements of a photoelectric image converter tube

SOURCE: IVUZ. Radiotekhnika, v. 7, no. 4, 1964, 504-511

TOPIC TAGS: image tube, image tube design

ABSTRACT: Based on recent (1954-59) Western sources, an analysis of the factors influencing the parameters of the output signals of image converter tubes is presented. The effect of the finite size of the flying spot on the tube passband is considered. Techniques used for stabilizing the electron-beam tube and multiplier phototube are discussed, as well as the reflected-light spectrum and screen afterglow. The forming of output pulses by a variable-threshold limiter is described in accordance with a previously published Soviet work (S. V. Svechnikov, IVUZ-Radiotekhnika, 1959, 2, no. 1, 80). Orig. art. has: 6 figures and 10 formulas.

ASSOCIATION: none

SUBMITTED: 16Apr63

ENCL: 00

SUB CODE: EC

NO REF SOV: 004

OTHER: 004

Card 1/1

PETRENKO, B.A., kand.tekhn.nauk

Electric discharge in sparkproof circuits. Mekh. i avtom. v gor.
prom. no.3:300-317 '63. (MIRA 16:10)

PETRENKO, B.A., kand. tekhn. nauk

Sparkproof features of electric networks containing
inductance and capacitance. Nauch. soob. IGD 18:164-172
'63. (MIRA 16:11)

PETRENKO, B.A., kand. tekhn. nauk

Ignition capacity of an electric discharge in sparkproof a.c.
and d.c. networks. Nauch. soob. IGD 20:136-144 '63.

(MIRA 16:10)

(Electricity in mining)