

POPLEVKO, I.I.; KUNDIRENKO, Ye.F.

Obtaining high buckwheat yields in Vinnitsa Province. Zem-  
ledieli 23 no.4:40-45 Ap '61. (MIRA 14:3)

1. Vinnitskoye oblastnoye upravleinye sel'skogo khozyaystva (for  
Poplevko.). 2. Vinnitskaya gosudarstvennaya sel'skokhozyaystvennaya  
opytnaya stantsiy (for Kundirenko).

(Vinnitsa Province--Buckwheat)

KUNDIU, S. A., KURANOV, I. F., EFROS, D. A. (Moscow)

"On the Permeability of Two- and Three-Phase Systems and the Analysis of Flows of Liquid-Gas Aggregates."

report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 1960.

KUNDIYEV, Yu. I.

"The Problem of the Effect of the Functional Condition of the Cerebral Cortex on the Muscular Work Capacity of Humans." Cand Med Sci, Kiev Order of Labor Red Banner imeni A. A. Bogomol', Kiev, 1955. (KL, No 18, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

KUNDIYEV, Yu.I.

SPYNU, Ye.I.; KUNDIYEV, Yu.I.; VOYTENKO, G.A.; IVANOVA, Z.V.; LEBEDEVA, T.A.

Hygienic evaluation of working conditions when using chlorinated  
organic insecticides in controlling sugar beet pests. Nauch.trudy  
Inst.ent.i fit. AN URSR 7:58-62 '56. (MLRA 10:3)  
(Spraying and dusting--Hygienic aspects) (Insecticides)  
(Sugar beets--Diseases and pests)

KUNDIYEV, Yu.I., kandidat meditsinskikh nauk

Second scientific conference on the physiology of labor. Gig. 1  
san. 21 no.5:56-59 My '56. (MIRA 9:8)  
(WORK) (PHYSIOLOGY)

KAGAN, Yu.S., kand.med.nauk; KUNDIYEV, Yu.I., kand.med.nauk; TROTSSENKO, M.A.,  
kand.khim.nauk (Kiyev)

Safety measures in using phosphorus organic insecticides for  
orchard spraying. Zashch. rast. ot vred. i bol. 3 no.4:29  
J1-Ag '58. (MIRA 11:9)  
(Phosphorus organic compounds) (Chemicals--Safety measures)

KUNDIYEV, Yu.I., kand.med.nauk

First All-Union Conference on Hygienic Aspects and Toxicology  
of Insecticides and Fungicides. Gig. i san. 23 no.6:81-83 Je '58  
(MIRA 11:7)

(AGRICULTURAL CHEMICALS)

KUNDIYEV, Yu.I., kand.med.nauk; SILAKOVA, G.I. [Sylakova, H.I.], doktor biolog.nauk, glavnyy red.

[Pernicious effect of alcohol on human working capacity] Pro zhubnyi vplyv alkoholu na pratsezdatsnist' liudyny. Kyiv, 1959. 33 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrain's'koi RSR, Ser.5, no.11) (MIRA 12:12)  
(ALCOHOL--PHYSIOLOGICAL EFFECT)



MEDVED', L.I., dotsent, red.; KRIVOGLAZ, B.A., prof., red.; KAGAN, Yu.S.,  
kand.med.nauk, red.; SERENRYANAYA, S.G., dotsent, red.;  
TOSTANOVSKAYA, A.A., kand.med.nauk, red.; KUNDIYEV, Yu.I., kand.  
med.nauk, red.; BURKATSKAYA, Ye.N., kand.med.nauk, red.; SPYNU,  
Ye.I., kand.med.nauk, red.; NOVIKOV, Yu.V., red.; BUL'DYAYEV,  
N.A., tekhn.red.

[Hygiene, toxicology, and clinical aspects of new insecticides  
and fungicides] Gigiena, toksikologiya i klinika novykh insekto-  
fungitsidov; trudy. Pod obshchei red. L.I.Medvedis. Moskva, Gos.  
izd-vo med.lit-ry Medgiz, 1959. 370 p. (MIRA 14:1)

1. Vsesoyuznaya nauchnaya konferentsiya po gigiyene i toksikologii  
insektov i fungitsidov. 1st, Kiyev, 1957. 2. Kiyevskiy institut  
gigiyeny truda i profzabolevaniy (for Medved', Kagan, Kundiyeu,  
Spynu). 3. Ukrainskiy nauchno-issledovatel'skiy institut pitaniya  
(for Tostanovskaya). (Insecticides) (Fungicides)

KUNDIYEV, Yu.I. [Kundiev, IU.I.]

Effect of alcohol on muscular work capacity. Fiziol.zhurn.  
[Ukr.] 5 no.1:121-123 Ja-F '59. (MIRA 12:5)

1. Kiyevskiy institut gigiyeny truda i profzabolevaniy, otdel  
fiziologii truda.

(ALCOHOL--PHYSIOLOGICAL EFFECT) (WORK)

A 44 D 7 1 1/2 1/2

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91. TOXICITY OF ACRYLIC ESTERS AND WITH DIMETHYL (2-ACRYLOYL-3,4-DITHIO) PHOSPHORIC ESTER (PREPARATION 107). N. N. Vysotskaya et al. . . . .	559
92. MECHANISM AND ENVIRONMENTAL TOXICITY OF INSECTICIDES CAUSED BY ORGANOPHOSPHORUS COMPOUNDS. L. T. Makhovskaya and I. V. Dedyeva . . . . .	545
93. EFFECT OF AMIN ON CONTRACTILE MYOSIN ACTIVITY. L. V. Chashina . . . . .	556
94. EFFECT OF ACRYL ESTERS OF DIMETHYL- AND DITHIOPHOSPHORIC ACIDS ON MYOSIN CONTRACTILITY (PREPARATIONS 151 AND 152). N. A. Korolova . . . . .	

PLANT PROTECTION SECTION

95. CHOLINERGIC SYSTEMS OF INSECTS AND MECHANISM OF ACTION OF THE INHIBITORY ACTIVITY OF ORGANOPHOSPHORUS COMPOUNDS. A. K. Yekremchikaya et al. . . . .	561
96. BIOLOGICAL ACTION OF ORGANOPHOSPHORUS COMPOUNDS. A. M. Alekseyev and T. E. Izotova . . . . .	569
97. COMPARATIVE TOXICOLOGICAL PROPERTIES OF TETRAMETHYL DITHIOPHOSPHORATE AND DIMETHYL DITHIOPHOSPHORATE. I. D. Kozlovskaya et al. . . . .	578
98. EFFECT OF FERTILIZING TREATMENT OF CORN WITH ORGANOPHOSPHORUS COMPOUNDS ON THE GROWTH AND DEVELOPMENT OF THE PLANTS. T. E. Izotova et al. . . . .	583
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101. ORGANOPHOSPHORUS AEROSOLS FOR CONTROL OF AGRICULTURAL PESTS. A. I. Sidorov and P. I. Mitrofanov . . . . .	597
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103. ORGANOPHOSPHORUS INSECTICIDES WITH INTRAPLANT ACTION AS A METHOD OF PROTECTING GREEN SHRUBS FROM PESTS. P. V. Gerasimov et al. . . . .	610
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Khimiya i Eriksaniya Fosfororganicheskikh Soedineniy (Chemistry and Application of Organophosphorus Compounds) A. Ye. Arbuzov, Ed. publ. by Kazan' Affil, Acad. Sci. USSR, Moscow, 1962 650pp.

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

KUNDIYEV, Yu. I., kand. med. nauk; PODLINYAYEVA, M. Ye.

Individual safety measures in working with poisonous chemicals.  
Zashch. rast. ot vred. i bol. 5 no. 6: 35-36 Je '60.

(MIRA 16:1)

1. Kiyevskiy nauchno-issledovatel'skiy institut gigiyeny truda  
i professional'nykh zabolevaniy.

(Agricultural chemicals - Safety measures)

KUNDIYEV, Yu.I., kand. med. nauk; PODLINYAYEVA, M.Ye., nauchnyy  
sotrudnik

Rendering harmless containers, premises, and transportation  
means. Zashch. rast. ot vred. i bol. 6 no.11:33-34 M '61.  
(MIRA 16:4)

1. Kiyayskiy institut gigiyeny truda i professional'nykh  
zabolevaniy.

(Agricultural chemicals—Safety measures)

KUNDIYEV, Yu.I., kand.med.nauk; PODLINYAYEVA, M.Ye., nauchnyy sotrudnik

Measures for individual protection against chemicals. Zashch. rast.  
ot vred. i bol. 7 no.1:40-41 '62. (MIRA 15:6)

1. Kiyevskiy institut gigiyeny truda i professional'nykh  
zabolevaniy.

(Agricultural chemicals---Safety measures)

MEDVED', L.I., doktor med. nauk, red.; BURKATSKAYA, Ye.N., kand.med. nauk, red.; VOYTENKO, G.A., kand. med. nauk, red.; KAGAN, Yu.S., red.; KRIVOGLAZ, B.A., prof., red.; KUNDIYEV, Yu.I., kand. med. nauk, red.; MAKOVSKAYA, Ye.I., doktor med. nauk, red.; SEREBRYANAYA, S.G., dots., red.; SPYNU, Ye.I., kand. med. nauk, red.; TOSTANOVSKAYA, A.A., kand. med. nauk, red.; TROTSENKO, M.A., kand. khim. nauk, red.; NOVIKOV, Yu.V., red.; CHULKOV, I.F., tekhn. red.

[Hygiene and toxicology of new pesticides and clinical aspects of poisoning; reports of the Second All-Union Scientific Conference of the Committee for the Study and Regulation of Poisonous Chemicals of the Main State Sanitary Inspection of the U.S.S.R.] Gigiena i toksikologiya novykh pestitsidov i klinika otravlenii; doklady 2-i Vsesoyuznoi nauchnoi konferentsii Komiteta po izucheniiu i regulatsii iadokhimikatov Glavnoi gosudarstvennoi sanitarnoi inspeksii SSSR. Pod obshchey red. L.I.Medvedia. Moskva, Medgiz, 1962. 478 p. (MIRA 16:4)

1. Vsesoyuznaya nauchnaya konferentsiya po gigiyene i toksikologii insektofungitsidov, 2d, 1962. (Continued on next card)

MEDVED', L.I.---(continued). Card 2.

2. Predsedatel' Komiteta gosudarstvennoy sanitarnoy inspeksii SSSR po izucheniyu i reglamentatsii yadokhimikatov (for Medved'). 3. Kiyevskiy nauchno-issledovatel'skiy institut gigiyeny truda i profzabolevaniy (for Burkatskaya, Voytenko, Spynu, Kagan, Trotsenko). 4. Ukrainskiy nauchno-issledovatel'skiy institut pitaniya (for Serebryanaya).

(PESTICIDES--TOXICOLOGY)



VOZNESENSKAYA, G.A., kand.med.nauk; BOZIYAN, Kh.A., vrach (Stepanakert);  
SILUYANOVA, V.A., kand.med.nauk; GRIGOROVSKIY, I.M., prof.;  
KUNDIYEV, Yu.I., kand.med.nauk (Kiyev); MARSHAK, M.S., prof.;  
ZALIOPO, M.N.; DONETSKAYA, L.M.; ORGANOVA, M.G.

Health hints. Zdorov'ie 9 no.3:30-31 Mr '63.  
(HYGIENE)

(MIRA 16:5)

KUNDIYEV, Yu.I., kand.med.nauk; PODLINYAYEVA, M.Ye., nauchmyy sotrudnik

Individual protection in agricultural work involving poisonous chemicals. Fel'd. i akush. 28 no.8:6-9 Ag'63  
(MIRA 16:12)

1. Iz Kiyovskogo instituta gigiyeny truda i professional'nykh zabolevaniy.

KUNDIYEV, Yu.I.

Absorption through the skin of the thiophosphoric acid ester series. Farmakol. tokalk. 26 no.3:361-365 My-Je'63  
(MIRA 17:2)

1. Kiyevskiy institut gigiyeny truda i profzabolevaniy.

MEDVED', L.I., prof., otv. red.; YEVTUSHENKO, G.I., dots., zak. otv. red.; KUNDIYEV, Yu.I., dots., red.; KRIVOGLAZ, B.A., prof. red.; NOVITSKIY, V.K., prof., red.; SUPONITSKIY, M.Ya., dots., red.; SHAKHBAZYAN, G.Kh., prof., red.

[Industrial hygiene; interdepartmental collection of scientific papers] Gigiena truda; mezhvedomstvennyi sbornik nauchnykh rabot. Kiev, Zdorov'ia, 1964. 268 p.  
(MIRA 18:3)

1. Kiev. Institut gigiyeny truda i professional'nykh zabo-  
levaniy. 2. Kiyevskiy institut gigiyeny truda i profes-  
sional'nykh zabo-levaniy (for Medved', Krivoglaz).

KUDRYAVTSEV, A.S.; SAVICH, I.A.; KUNDO, N.; NIKOLAYEV, L.A.

Catalytic properties of the complex compounds of metals with  
Schiff bases. Zhur. fiz. khim. 36 no.6:1382-1384. Je'62  
(MIRA 1787)

1. Moskovskiy institut inzhenerov transporta.

KUNDOSOV, N. K.

"Changes in the morphological and biochemical indexes of blood and certain immunobiological reactions of the organism of healthy colts during ontogenesis." Min Higher Education USSR. Alma-ata Zooveterinary Inst. Alma-Ata, 1956. (Dissertations for the Degree of Candidate in Veterinary Science)

So: Knizhaya letopis', No 16, 1956

USSR/General Problems of Pathology - Cytotoxins

U

Abs Jour : Ref Zhur Biol., No 6, 1959, 27259

Author : Kundosoy, N.

Inst : Kazakhstan Veterinary Institute

Title : The Changes of Morphologic, Biochemical Blood Indexes and Some Immunobiologic Reactions of the Organism of Healthy Foals in Ontogenesis

Orig Pub : Tr. In-ta vet. kazakhst. fil. VASKHNIL, 1957, 8, 169-175

Abstract : Hb of blood, index of hematocrite, number of erythrocytes, total protein content, sugar, glutathione and its fractions in serum, residual N and urea increased in younger age, became stabilized in healthy foals towards 8-9th month of life, as well as heretofore decreased color index, amount of lymphocytes and monocytes, content of Ca in serum. Towards this age, the immunobiologic

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USSR/General Problems of Pathology - Cytotoxins

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Abs Jour : Ref Zhur Biol., No 6, 1959, 27259

reactions of the organism intensify. The introduction of antitreticular cytotoxic serum increases the number of erythrocytes, leucocytes, Hb, sugar, glutathione and its fractions, residual N, urea, protein and Ca in the serum, color index and phagocytic activity of leucocytes. The best method of antitreticular cytotoxic serum introduction is subcutaneous.

Card 2/2



U

USSR/General Problems of Pathology - Cytotoxins.

Abs Jour : Ref Zhur Biol., No 1, 1959, 4097

Author : Kundosov, N.K.

Inst : Kazakh Veterinary Institute

Title : The Action of A. C. S. upon the Physical, Morphological and Biochemical Indexes of the Blood of Healthy Colts.

Orig Pub : Tr. Kazakhsk. n.-i. vet. in-ta, 1957, 9, 276-279

Abstract : Observations were made upon three 6-6½ months old colts in which A.C.S. was injected intradermally, three 4½-5½ months old colts with subcutaneous injections and three 5-6 months old colts with intramuscular injections; the following were investigated in all the animals within 12, 24 and 48 hours: Hb, erythrocyte and leukocyte counts color index (CI), phagocytic index and the blood values of glucose, protein, residual N, urea, Ca and glutathione.

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USSR/General Problems of Pathology - Cytotoxins.

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Abs Jour : Ref Zhur Biol., No 1, 1959, 4097

and the alkaline reserve (AR). Following intradermal injection of A.C.S. an elevation of all the indexes with the exception of erythrocytes, leukocytes, glutathione and AR was noted; following intramuscular administration of A.C.S. no elevation of CI, serum protein, urea and AR was observed; after subcutaneous injection of A.C.S. no elevation of CI, glycemia, AR and total proteins was noted. The greatest increase of morphological and biochemical indexes was observed with subcutaneous administration of A.C.S. -- A.I. Geronimus.

Card 2/2

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Card 2/2

STRIERNY, J.; KUNDRAT, J.

Pressure arthrodesis of the knee. Acta chir. orthop. traum.  
cech. 30 no.4:288-291 Aug '63.

1. Oddeleni pro ortopedii a traumatologii pohyboveho ustroji  
MUNZ v Ostrave, vedouci MUDr. K. Novotny.  
(KNEE) (ARTHRITIS, RHEUMATOID)  
(POLIOMYELITIS) (CONTRACTURE)  
(RHEUMATISM) (ARTHRODESIS)

KUNDRAT, J.; SPINDRICH, J.

Isolated fracture of the diaphysis of the radius. Rozhl. chir.  
43 no.7:481-485 JI '64.

1. Ortopedické a traumatologické oddělení městské nemocnice a  
poliklinikou v Ostravě (vedoucí MUDr. K. Novotný).

KUNDRAT, Jindřich, promovany ekonom

Solved scientific and research tasks in the field of  
agricultural economy. Vest ust zemedel 11 no. 5:185-186 '64.

1. Research Institute of Agricultural Economy, Prague.

KUNDRAT, Jirich, promovany ekonom

Solved research tasks on agricultural economics. Vest ust  
zemedel 10 no.8:286-287 '63.

1. Vyzkumny ustav zemedelske ekonomiky, Praha.

AMERIK, B.K.; MUTOVIN, Ya.G.; SAPON, M.F.; KUNDRYUTSKAYA, N.Kh.

Pilot plant for the two-stage destructive vacuum distillation  
of oil residues. Trudy GrozNII no. 15:59-67 163. (MIRA 17:5)



L 0268-66 EWT(1)/EWT(m)/T/EWP(t)/ETI IJP(s) JD/AT  
ACC NR: AP6023423 SOURCE CODE: UR/0139/66/000/003/0151/0154

50  
48  
B

AUTHOR: Metreveli, S. G.; Kundukhov, R. M.

ORG: North Osetian gospedinstitut imeni K. L. Khetagurov (Severo-Osetinskiy gospedinstitut)

TITLE: Electron-hole Flow in indium phosphide

SOURCE: IVUZ. Fizika, no. 3, 1966, 151-154

TOPIC TAGS: pn junction, indium, forbidden zone width, electron mobility

ABSTRACT: A technique for producing pn junctions by diffusing zinc and cadmium in indium phosphide is described. Owing to its extreme forbidden zone width and high electron mobility, InP can be used in photoelectric converters of solar energy and in diode manufacture. Polycrystal and single crystal InP plates were used as initial material; pn junctions were obtained by the diffusion method. The plates were prepared from bars produced by gradient crystallization of the synthesized compound. At room temperature, the conductivity of the specimens was  $60-200 \text{ ohm}^{-1} \text{ cm}^{-1}$ , the electron concentration was  $2 \cdot 10^{16} - 6 \cdot 10^{17} \text{ cm}^{-3}$ , and the electron mobility was  $3500-5000 \text{ cm}^2/\text{sec} \cdot \text{v}$ . The diffusion of Cd and Zn--the acceptor admixture for InP--was carried out from the gaseous phase. The InP plates were ground, polished, rinsed and etched in a  $\text{HCl} + \text{HNO}_3$  mixture, combined with Cd, Zn and P, and placed into a  $1 \text{ cm}^3$  quartz

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ampoule. The ampoule was evacuated to  $3-5 \cdot 10^{-5}$  mm Hg, and sealed off. The specimens were annealed at 730-850°C. The diffusion depth was measured by a metallographic microscope and checked by a thermal probe. Diodes with an inverse voltage of up to 30-60 v can be obtained from specimens annealed in Cd and Zn vapors; when Zn only is used as an admixture, the inverse voltage is 12-20 v; however, the return current in these specimens is smaller. Heating of the diodes to 150°C did not affect the volt-ampere characteristic. As a rule, the inverse critical voltage is considerable larger in purer specimens. The authors thank Professor D. N. Nasledov and V. V. Galavanov for proposing the topic and for constant interest in the work. Orig. art. has: 3 figures, 1 table. [14]

SUB CODE: 20/

SUBM DATE: 24Dec64/

OTH REF: 006 / ATD PRESS: 5159

Card 2/2 *LL*

ACC NR: AP6037002

(A,N)

SOURCE CODE: UR/0181/66/008/011/3402/3403

AUTHOR: Galavanov, V. V.; Kundukhov, R. M.; Nasledov, D. H.

ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad  
(Fiziko-tehnicheskii institut AN SSSR); North Ossetian State Pedagogical Institute  
im. K. L. Khetagurov (Severo-osetinskiy gosudarstvennyy pedagogicheskii institut)

TITLE: Photoelectric solar energy converter made of InP

SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3402-3403

TOPIC TAGS: solar cell, photoelectric cell, indium compound, phosphide

ABSTRACT: An efficiency of 6.7% was obtained from an InP photocell, compared to the 22% calculated theoretically by F. F. Loferski (J. Appl. Phys. 27, 777, 1956) and the 2% obtained by P. Rappaport in 1956 (RCA Rev. 20, 373, 1956). The 0.1 cm<sup>2</sup> photoelements were prepared from single crystalline n-type material, the p-n junction being obtained by the double diffusion of cadmium or zinc. At a solar intensity of 70 mw/cm<sup>2</sup> and a temperature of 18C, the open-circuit voltage was 0.74 v and the short-circuit current 10 ma/cm<sup>2</sup>. The authors stress that their InP elements were not prepared with a view to obtaining optimal characteristics, and that, therefore, a higher efficiency may be expected when technical improvements are made. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 13Dec65/ ORIG REF: 001/ OTH REF: 002/ ATD PRESS: 5108

Card 1/1

KUNDUKHOVA, Ye.M.

Detection of regional metastases in cancer of the cervix uteri by lymphography. Akush. i gin. 40 no.4:74-77 J1-Ag '64. (MIRA 18:4)

1. Rentgenodiagnosticheskoye (zav. - doktor med. nauk Ye.A. Likhtenshteyn) i ginekologicheskoye (zav. - doktor med. nauk I.S.Krayevskaya) otdeleniya Gosudarstvennogo onkologicheskogo instituta imeni Gertsena (dir. - prof. A.N.Novikov), Moskva.

KUNDYS, E.

... .. 22d(v)/... 2 cys

34695  
S/137/62/000/002/004/1  
A006/A101

18.8100  
AUTHORS:

Terpilowski, Janusz; Kundys, Emil; Slaby, Henryk

TITLE:

Thermodynamical properties of liquid metal solutions. VII. The Ag-Tl system

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 12, abstract 2A57 ("Arch. hutn", 1961, vol. 6, no. 2, 137-146, Polish; Russian and English summaries)

TEXT:

The authors measured emf E of reversible concentration elements of type Tl (liquid)/(0.58 LiCl + 0.42 KCl) + 0.05 TlCl (molten salt)/Ag<sub>x</sub>Tl<sub>1-x</sub> (liquid solution)+. Investigations were made of 10 liquid solutions of Ag-Tl containing 10 - 95 at. % Tl. The investigation method was described previously (RZhMet, 1960, no. 9, 19484). E values were determined for 950, 1,050 and 1,150 °K. The emf of all elements varied linearly with the temperature. For elements containing solutions with 0.1 and 0.2 atom portions of Tl in Tl, numerical values of E<sub>1,050</sub> were extrapolated from the linear dependence of emf on temperature. The results of measurements and extrapolation were applied for the case of the Au-Tl system to calculate changes in the partial molar thermodynamical potentials

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S/137/62/000/002/004/144  
A006/A101

Thermodynamical properties of liquid metal ...

of entropy ( $\Delta \bar{S}_{Tl}$ ,  $\Delta \bar{S}_{Ag}$ ) and enthalpy ( $\Delta \bar{H}_{Tl}$ ,  $\Delta \bar{H}_{Ag}$ ) of Tl and Ag, activities and activity factors of components, changes in the thermodynamical potential, entropy ( $\Delta S$ ) and enthalpy ( $\Delta H$ ) of mixing liquid Tl and supercooled liquid Ag. Isotherms of activity of the components in the liquid range of the Ag-Tl system show positive deviations from the Raoult's law only within a  $N_{Tl}$  range from about 0.1 to 0.4. The isotherm of Ag activity is characterized by a low negative deviation from this law. Mixing enthalpies are positive over the whole concentration range and show maximum values on the side of liquid solutions enriched with Tl. These maxima attain 950 cal. g-atom of the solution.  $\Delta \bar{H}_{Tl}$ ,  $\Delta \bar{H}_{Ag}$  and  $\Delta H$  curves have an asymmetrical shape, and a maximum on the  $\Delta H$  curve appears on the side which is opposite to the enormous majority of other liquid metal systems with sharply different atomic volumes of components. Values  $\Delta \bar{S}_{Tl}$ ,  $\Delta \bar{S}_{Ag}$  and  $\Delta S$  for the liquid Ag-Tl system are higher than for ideal and regular solutions. The basic cause of this fact is the great difference between atomic volumes of Ag and Tl. Liquid Ag-Tl solutions behave like semiregular solutions with coefficient  $D = 1.42$ . Information VI see RZhMet, 1961, 3A14. ✓

Authors' summary

[Abstracter's note: Complete translation]

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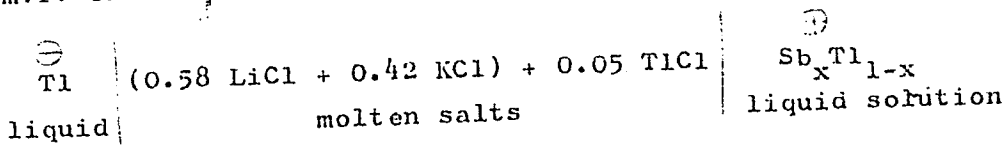
P/038/62/007/001/002/003  
E193/E383

12.7540

AUTHORS: Kundys, Emil, Terpiłowski, Janusz and Josiak, Jerzy  
TITLE: Thermodynamic properties of liquid metallic solutions.  
IX. The Sb-Tl system

PERIODICAL: Archiwum hutnictwa, v. 7, no. 1, 1962, 39 - 46

TEXT: The object of the present investigation was to study thermodynamic properties of liquid Sb-Tl solutions. To this end, the e.m.f. of reversible concentration cells of the type:



was measured. A linear temperature-dependence of the e.m.f. was observed in every case. The other results are reproduced in Table 1. Changes of partial molar thermodynamic potentials ( $\bar{\Delta}G_{Tl}$ ,  $\bar{\Delta}G_{Sb}$ ), entropy ( $\bar{\Delta}S_{Tl}$ ,  $\bar{\Delta}S_{Sb}$ ) and enthalpy ( $\bar{\Delta}H_{Tl}$ ,  $\bar{\Delta}H_{Sb}$ )

Card 1/B



Thermodynamic properties ....

P/058/62/007/001/002/003  
E195/E583

were calculated from these data as well as the activities ( $a_{Tl}$ ,  $a_{Sb}$ ), activity coefficients ( $f_{Tl}$ ,  $f_{Sb}$ ) for Tl and Sb, and changes of the thermodynamic potential ( $\Delta G$ ), entropy ( $\Delta S$ ) and enthalpy ( $\Delta H$ ) of their solutions. As will be seen from Fig. 4, where  $a_{Sb}$  and  $a_{Tl}$  are plotted against Tl concentration ( $N_{Tl}$ ) at 650 °C, the activity isotherms for both metals show a negative deviation from Rault's law. The enthalpy of the solution is negative for the entire concentration range, reaching a value of -490 cal/g.atom at the Tl-rich end. The asymptotic character of curves for the enthalpy of the solution and for partial molar enthalpy of the components can probably be attributed to the existence of an intermediate  $\gamma$ -phase in the system studied. As shown in Fig. 2 (where  $\Delta S_{Tl}$ ,  $\Delta S_{Sb}$  and  $\Delta S$  (cal/°C) are plotted against  $N_{Tl}$  - the broken curves relating to ideal solutions), changes of partial molar entropy of the components and entropy of the solution for the entire

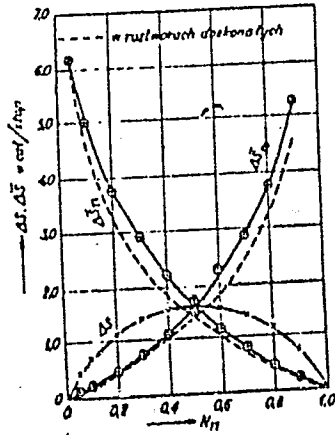
Card 2/4

P/038/62/007/001/002/003  
E193/E383

Thermodynamic properties ....

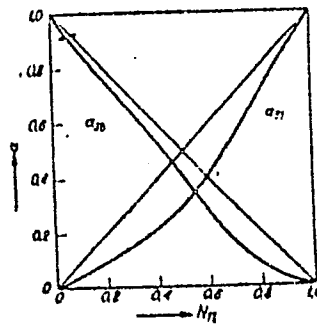
concentration range were found to be higher than those of an ideal solution. This effect is probably associated with relatively large volume changes accompanying the formation of liquid solutions and with the difference in atomic volume of both components. There are 4 figures and 4 tables.

Fig. 2:



Card 3/4

Fig. 4:



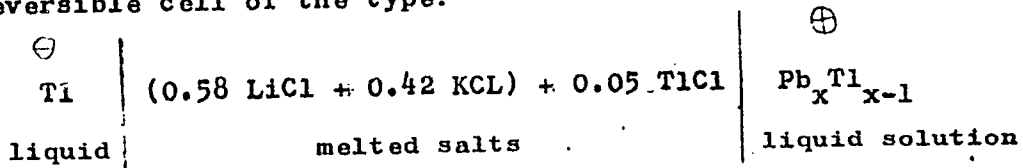
P/038/62/007/003/001/002  
E193/E383

AUTHORS: Kundys, Emil, Terpikowski, Janusz and Zaleska, Ewa

TITLE: Thermodynamic properties of liquid-metal solutions.  
X. Pb-Tl system

PERIODICAL: Archiwum hutnictwa, v. 7, no. 3, 1962, 233-241

TEXT: Measurements of e.m.f. generated at 400 - 600 °C by  
a reversible cell of the type:



were used to determine some thermodynamic properties of liquid Pb-Tl solutions in a wide concentration range. Using the Gibbs-Duhem's equation and the experimental values of e.m.f. at 400, 500 and 600 °C and the temperature coefficient of e.m.f., the authors calculated the following properties:

- 1) changes in the partial molar thermodynamic potential  $\Delta \bar{G}$ ,
- Card 1/3

Thermodynamic properties ....

P/038/62/007/003/001/002  
E193/E383

entropy  $\Delta\bar{S}$  and enthalpy  $\Delta\bar{H}$  of both constituents;  
2) changes of the thermodynamic potential, entropy and enthalpy of the solutions (calculated per g.a. of each solution);  
3) activities  $a$  and activity coefficients  $f$  for both components in liquid solutions. The results, tabulated and reproduced graphically, were similar to those obtained earlier for the Bi-Tl and Bi-Pb solutions. The validity of the method employed was confirmed by the fact that the values of enthalpy of solutions obtained by this method were in good agreement with those obtained by F.E. Wittig and P. Scheidt (Z. phys. Chem. NF, 28, 1961, 120) with the aid of the calorimetric method. In general, the results of the present investigation provided support for the view that metals occupying adjacent positions in the periodic table form liquid solutions only slightly deviating from ideal solutions. This is demonstrated in Fig. 2, where the change in the partial molar enthalpy of both components ( $\Delta\bar{S}_{Tl}$ ,  $\Delta\bar{S}_{Pb}$ ) and the change in the entropy of the solutions ( $\Delta\bar{S}$ ) are plotted against the Tl concentration, the

Card 2/3

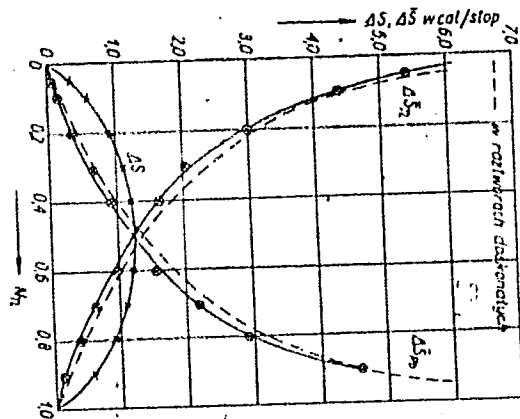
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E193/E383

Thermodynamic properties ....

broken curves relating to ideal solutions.  
There are 5 figures and 5 tables.

SUBMITTED: September 26, 1961

Fig. 2:



Card 3/3

POLAND

KUNDYS, Emil

Dept. of Inorganic Chemistry, Pharmaceutical Section, Wroclaw Medical Academy (Katedra Chemii Nieorganicznej Wydziału Farmaceutycznego AM we Wrocławiu)

Wroclaw, Wiadomosci chemiczne, No 11, Nov 1965, pp 768-770

"Thermodynamic properties of liquid solutions Bi-Pb, Ag-Tl, Sb-Tl, Pb-Tl, In-Tl." (Doctoral thesis)

CA

KUNDZHVLYAN V. I.

28

The results of the test of Lovozerskii kieselguhr. V. I. Kundzhulyan. *Trans. Central Sci. Research Inst. Sugar* (USSR) No. 13, 29-37 (1963).—Lovozerskii kieselguhr is better than mineral kieselguhr of Podol'skii region, and slightly poorer than American Hyflo-Cel. Adsorption capacities, especially removal of Ca salts, are higher for Lovozerskii, than for Nurnuskii or Hyflo-Cel. Nurnuskii kieselguhr is more powerful in color removal than either Hyflo-Cel or Lovozerskii. The treatment of sugar soln. with kieselguhr in amount of 0.6% on the wt.

of solids at high or low concn. removes, besides mechanical suspensions, colloidal substances and Ca salts, and decreases the ash content and color. Preliminary treatment of a sugar soln. with kieselguhr and later treatment with Norit give much better results than treatment with only one adsorbent. The rate of filtration is highest with Hyflo-Cel, but uniformity of filtration is better when Nurnuskii and Lovozerskii kieselguhr are used. The last two could be much improved if special treatment were employed.  
V. F. Ilakow

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

CAKUNDZHULYAN V. I.

28

Preserving sugar juice. V. I. Kundzhulyan and N. E. Loginov. Russ. 38,058, July 31, 1934. The juice is treated with water glass, satd. with CO<sub>2</sub> or SO<sub>2</sub> to a pH of 10-11, and the solidified mass is dried.

ASM-11A METALLURGICAL LITERATURE CLASSIFICATION

Region	Classification	Index
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GX		
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GA		



PROCESSES AND PROPERTIES INDEX

*ca* **KUNDZHULYAN, V. I.** 28

Preservation of sugar juices. V. I. Kundzhulyan and S. P. Dronov. Russ. 44,778, Oct. 31, 1935. Unrefined sugar juices are preserved and dried, and admixts. are subjected to sulfo-carbonation by passing combustion gases through the mixt.

METALLURGICAL LITERATURE CLASSIFICATION

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

Vitamin "P." Nauka i zhizn' 27 no.8:78 Ag '60. (MIRA 13:9)

1. Vitaminnyy institut (Moskva).  
(VITAMINS--P)

KUNDZICH, G. A.

USSR/ Physics

Card : 1/1

Authors : Kundzich, G. A. and Shishlovskiy

Title : Vavilov's law on constancy of quantum outputs of the photo-luminescence of vapors of organic substances.

Periodical : Dokl. AN SSSR, 97, Ed. 3, 429 - 432, July, 1954

Abstract : Describes experimental work performed on various vapors of organic substances in order to find out whether Vavilov's law on constancy of output quanta of photo-luminescence of various organic solutions is applicable to vapors of organic substances or not. Diagrams and a table show results of the experiments. Nine references.

Institution : Kiev State University, im. T. G. Shevchenko

Presented by : Terenin, Academician, March 31, 1954

KUNDZICH, G. A.

KUNDZICH, G. A. --"Investigation of the Quantum Yield of the Photoluminescence of the Vapors and Solutions of Polyatomic Organic Compounds. Kiev, 1955. (Dissertation for the Degree of Candidate in Physicomathematical Sciences.)

So.: Knizhnaya Letopis', No 7, 1956.

KUNDZICH, G.O. [Kundzich, H.O.]; SHISHLOVSKIY, O.A. [Shyshlovs'kyi, O.A.]

Temperature dependence of photoluminescence of vapors of polyatomic  
organic compounds. Nauk povid. KDU no.1:19-20 '56. (MIRA 11:4)  
(Luminescence)

GULYANITSKIY, V.A.; KUNDZICH, G.A., kand. fiz.-mat. nauk.

On the article "Determining the light reflection (whiteness) of paper." Bum. prom. 32 no.10:12 0 '57. (MIRA 11:1)

1. Rukovoditel' fiziko-metrologicheskoy laboratorii Ukrainskogo nauchno-issledovatel'skogo instituta bumazhnoy promyshlennosti [UkrNIIB] (for Gulyanitskiy).

(Paper--Testing)

KUNDZICH, G.A.; VAYSMAN, L.M.; ZAL'TSMAN, M.G.

Inspection of the structure of paper. Bum.i der.prom. no.4:14-  
20.0-D '62. (MIRA 15:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut bumazhnoy  
promyshlennosti.

(Paper--Testing)

KUNDZICH, G.A.; RYABCHUK, G.P.; KIPNIS, M.S.

Automation of the sorting of sheet paper. Bum. prom. 38 no.5:  
17-21 My '63. (MIRA 16:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut tsellyuloznoy  
i bumazhnoy promyshlennosti.  
(Paper industry—Equipment and supplies)  
(Automation)



VAYSMAN, L.M.; KUNDZICH, G.A.

Method of estimating the structure of condenser paper. Bun. prom.  
no.2:10-12 F '64. (MIRA 17:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut bumazhnoy promysh-  
lennosti.

KUNZEICH, M. M., LUTSKIY, YA. Z.

Wells

Constructing new-type dug wells in Turkmen SSR. Kir. i zver. 5 no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June, 1952 ~~1953~~, Uncl.

VOLOD'KO, Ivan Fomich; ~~KUNDZICH, Mikhail Mikhaylovich~~; ORLOVA, V.P., red.;  
SOKOLOVA, N.N., tekhn. red.

[Irrigation and drinking water for pastures of the U.S.S.R.]  
Odvodnenie pastbishch v SSSR. Moskva, Gos. izd-vo sel'khoz.  
lit-ry, 1957. 99 p. (MIRA 11:8)  
(Pastures and meadows) (Water supply, Rural)

KUNDZICH, M.M., inzhener.

Designing and building irrigation systems and structures. Gidr.i mel.  
9 no.2:3-10 F '57. (MLRA 10:3)  
(Irrigation)

KUNDZICH, M.M.

99-6-8/9

AUTHOR: Kundzich, M.M.

TITLE: Conference on Questions Pertaining to the Irrigation of Pastures, Water Supply and Irrigation of Estuaries in the Kazakh SSR. (Soveshchaniye po voprosam obvodneniya past-bishch, vodosnabzheniya i limaniogo orosheniya v Kazakhskoy SSR)

PERIODICAL: Gidrotekhnika i Melioratsiya, 1957,<sup>9</sup> Nr 6, pp 54-62 (USSR)

ABSTRACT: Initiated by the Department of Hydraulic Engineering and Melioration (otdeleniye gidrotekhniki i melioratsii) of the All-Union Academy of Agricultural Sciences imeni Lenina (Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni Lenina) and the Ministry of Water Resources of the Kazakh SSR (Ministerstvo vodnogo khozyaystva Kazakhskoy SSR) a conference was held at Alma-Ata from Feb 27 till Mar 1, 1957 concerning Kazakh water supply and irrigation questions. The meeting was attended by 300 deputies from the Kazakh and other SSR's and representatives of the Ministry of Agriculture of (Ministerstvo sel'skogo khozyaystva SSSR) the Ministry of Geology and Preservation of Natural Resources of the USSR (Ministerstvo geologii i okhrany nedr SSSR) of the Academy of Sciences of the USSR (Akademiya nauk SSSR) and other scientific organizations. The convention was opened

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99-6-8/9

Conference on Questions Pertaining to the Irrigation of Pastures, Water Supply and Irrigation of Estuaries in the Kazakh SSR.

by A.N. Askochenskiy, of the Department of Hydraulic Engineering and Melioration, who lectured on the subject of irrigation of pastures and water supply. He reported on large irrigation projects which were being carried out at present in Central Asia, Kazakhstan and in the Turkestan steppes. With the completion of the Kzyl-Ordin dam construction, irrigation projects can be developed along the Syr-Darya river. Besides surface water, artesian water resources will be used in Kazakhstan to irrigate pastures. By 1956, a total of 50,000 wells were drilled. Further statements about the utilization of the Kazakhstan water resources were made by S.D. Daulenov, Minister of Water Resources of the Kazakh SSR. According to the 6th 5-year plan, 43 million hectares of land will be put under irrigation, necessitating construction of approx 17,000 irrigation structures. In addition, more intensive use of 69.4 million hectares of cattle ranches are being contemplated. In 1957, construction of the following canals is planned: 'Ural-Kushum, Kuvan-Dar'ya, Zhana-Dar'ya and Chilli-Telekul'. U.M. Akhmedsafin, of the Academy of Sciences of the Kazakh SSR, reported on extensive artesian water reserves, exploitation of

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99-6-8/9

Conference on Questions Pertaining to the Irrigation of Pastures, Water Supply and Irrigation of Estuaries in the Kazakh SSR.

which requires detailed studies. M.I. Kostyukov, Deputy Minister of Water Resources, lectured on the possibilities to expand irrigation of estuaries. By 1960 the acreage of estuaries under irrigation will be increased to 2.2 million hectares. E.G. Petrov, Candidate of Agricultural Sciences, (VNIIGiM), drew attention to surface run-off, amounting yearly to 50 to 60 billion cu m of water, some of which could be used for irrigation, and thus increase total grain crops by approximately 20 billion kg. V.M. Soloviyev, Managing Director of the "Kazburvodstroy Trust", reported on mechanization measures at the construction of irrigation structures. The following machines were tested and found to operate satisfactorily under local conditions: well drill "KMK-25", drills "ABB-3-100", "ABB-T", "VPE -3-AM" and "YKC-22". I.S. Kulashvili, engineer-geologist, lectured on the drilling of artesian wells within the Azerbaydzhan SSR. The units "ABB-400" and "ABB -3-100" proved to be very efficient. From 1948 to 1956 a total of 1,495 wells were drilled, of which 1,128 were artesian. The conference regarded it appropriate to establish uniform systems of complex research in different

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99-6-8/9

Conference on Questions Pertaining to the Irrigation of Pastures, Water  
Supply and Irrigation of Estuaries in the Kazakh SSR.

fields serving the development of water resources in the  
Kazakh and other SSR's.

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Card 4/4



*Kundzich, M.M.*

AUTHOR: Kundzich, M.M., Engineer

99-8-11/12

TITLE: All-Union Seminar on Irrigation and Improvement of Pastures  
(Vsesoyuznyy seminar po obvodneniyu i uluchsheniyu pastbishch)

PERIODICAL: "Gidrotekhnika i Melioratsiya", 1957, # 8, pp 58-63 (USSR)

ABSTRACT: Organized by the Ministry of Agriculture of the USSR (Ministerstvo Sel'skogo Khozyaystvo SSSR) an all-union seminar was held from 27 May - 3 Jun 57 on experiences gained in methods of irrigation and improvement of pastures in the Uzbek SSR. The course was attended by 200 delegates from the Kazakh, Turkmen, Tadzhik, Azerbaydzhan and Armenian SSRS, the RSFSR districts adjacent to the Caspian Sea and representatives of scientific research institutes of the Academy of Sciences of the USSR as well as of the academies of the Union republics. Prior to the field inspections, lectures were held on the methods applied in the Uzbek SSR pertaining to improved use of desert pastured. The various experimental stations of the Uzbek SSR have been engaged in research work concerning the cultivation of forage crops, such as various grasses and alphas by utilizing artesian water, the cultivation of wormwood and haloxylon for winter pasture and crop protection, as well as estuary (liman)

Card 1/2

99-8-11/12

All-Union Seminar on Irrigation and Improvement of Pastures

irrigation. The field inspections were conducted in the arid Kzyl - Kuma ranges, where a number of state and collective farms as well as experimental stations were visited. The Ayak-Agitmin experimental station had large flocks of Astrakhan sheep, the breeding of which was made possible by installing watering places of prefabricated reinforced concrete artesian wells. At the collective farm "Thaelmann" in the Kenimekh district, 3 artesian wells produced 250 liter/sec, sufficient to irrigate 500 hectares of desert land. Besides irrigation, sprinkling was also applied. It was stated that the available water resources in the Uzbek SSR permit to irrigate 10,000 hectares of desert, and that similar conditions exist in Kazakhstan and other areas adjacent to the Caspian Sea. Good results were obtained with windmills at the state farm "Ulus" to supply range cattle with water. On 2 Jun 57 the participants of the seminar travelled to Samarkand, where the course terminated. The article contains 10 photographs.

AVAILABLE: Library of Congress

Card 2/2

KUNDZICH, M.M.

99-58-4-3/7

AUTHORS: Bolotova, N.P.; Vinokur Ya.Ye.; Girshkan, S.A.; Koklyanov, A.F.;  
Kundzich, M.M.; Nefedov, V.D.; Ofengenden, S.R.; Pishchikov,  
R. S.; Poslavskiy, V. V.; Tomilov, V. S.; Sharov, N. A.;  
Shtarev, Ya. K.; Shubladze, K. K.

TITLE: Means of Raising the Technical Level and Lowering the Construc-  
tion Cost of Irrigating and Meliorating Systems (Puti povyshe-  
niya tekhnicheskogo urovnya i snizheniya stoimosti stroitel'-  
stva orositel'nykh, osushitel'nykh i obvodnitel'nykh sistem)

PERIODICAL: Gidrotekhnika i Melioratsiya, 1958, # 4, pp 17-39 (USSR)

ABSTRACT: A general review of past achievements and future tasks in  
the field of irrigation and melioration is given. The main  
deficiencies in the field are: insufficient mechanization of  
construction work, a shortage of excavating machines and other  
construction equipment, late deliveries of spare parts for  
machines and a too wide dispersal of funds over a multitude of  
enterprises. The main shortcomings at the planning stage are:  
insufficient use of means to cut down filtration losses of  
water in the canals; insufficient utilization of sprinkling;  
insufficient development of drainage systems, a careless level-  
ling of irrigated fields, the most important factor in an

Card 1/3

99-58-4-3/7

Means of a Raising the Technical Level and Lowering the Construction Cost  
of Irrigating and Meliorating Systems

economical use of water. During the 6th 5-year plan, the drainage system in the south-western parts of the Belorussian SSR, in the Poles'ye part of the Ukrainian SSR, and in other parts of the USSR, is to be greatly developed. Only 8,4 million hectares out of a total of 200 million hectares of marshes or marshy soils were being drained at the beginning of 1957. More than 4 million of these undrained hectares are used as natural meadows and pastures with low yields. The article also recommends to replace the system of open drainage ditches by subsurface drains.

During the 6th 5-year plan 81,1 million hectares will be watered by new wells, reservoirs, artificial lakes and spring water. Many sheep-breeding farms in Uzbekistan will install electric pumps, until now impossible due to the shortage of needed equipment. In 1957 production of hydraulic equipment lagged considerably behind requirements. The article lists the various projects to be constructed in various republics. The melioration works will cover an area of 13 million hectares in the Belorussian and Ukrainian SSR. the acreage of arable land will be increased by 3,8 million

Card 2/3

Means of a Raising the Technical Level and Lowering the Construction Cost  
of Irrigating and Meliorating Systems

99-58-4-3/7

hectares.

There are 8 photos and 1 table and 4 maps.

AVAILABLE:

Library of Congress

Card 3/3

30(1)

SOV/99-50-9-8/14

AUTHOR: Kundzich, M.M., Engineer

TITLE: Band Water Lifting Device for Shaft Wells

PERIODICAL: Gidrotekhnika i melioratsiya, 1959, Nr 9, pp 51-53  
(USSR)

ABSTRACT: The Central Asian Scientific-Research Institute of Irrigation (SANIIRI) has constructed a band water lifting device in Turkmeniya. A schematic diagram of this device, Type EL 100 SANIIRI, is given in Figure 1. A band water lifting device of the same type, but of a somewhat simpler design, is manufactured by the Ashkhabadskiy remontnyy zavod imeni 20-letiya Turkmenkov SSR (Ashkhabad Repair Plant imeni "20-letiya Turkmenkov SSR") under the name "Ashkhabadets". It is intended for water lifting from shaft wells 20 to 100 m deep. The outstanding feature of this device is the application of a flat driven belt, the operation of which is not affected by the presence of salt and sand contained in well water. The band is

Card 1/3

SOV/99-59-9-8/14

Band Water Lifting Device for Shaft Wells

driven by an electric motor or gasoline engine; the band size is 100 x 4 or 100 x 5 mm; speed movement 6 m/sec. Operating specifications are given in Table 1. The device "Ashkhabadets", (Figure 2), comprises the following components: body with frame (1); electric motor (2); driving drum (3); transmission belt (4); lifting device cover (5); and the main operating part - the band. The operation is based on the principle of utilization of molecular cohesion and friction forces existing inside water. In operation, the band passes through the water in the well; moving at high speed to the surface, the band takes along with it a certain layer of water which is then thrown off by the centrifugal force into a water recipient, hence it enters the basin. The tests carried out by V.N. Mashkov (TIIMSKh) have shown that the performance coefficient of this device increases as the well depth augments. (Table 2). 300 band water lifting devices of SANIIRI design, have been thoroughly

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SOV/99-59-9-8/14

Band Water Lifting Device for Shaft Wells

tested in Turkmenia and in the Uzbek SSR; it was established that they satisfy the requirements presented to water lifting devices from shaft wells in a most efficient way. There are 2 tables, 1 schematic diagram and 1 photograph.

Card 3/3



DATSYKOV, V.V.; VOLOD'KO, I.F.; KUNDZICH, M.M.; PESTRYAKOV, A.I., red.;  
GOR'KOVA, Z.D., tekhn.red.; PROKOF'YEVA, L.N., tekhn.red.

[Water supply on desert pastures] Obvodnenie pustynnykh  
pastbishch. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 183 p.  
(Pastures and meadows) (Water-supply, Rural) (MIRA 14:2)

RABINOVICH, N.I.; KUNDZICH, M.M., inzh., retsenzent; KOCHNEV, M.G.,  
inzh., red.; ZHURAVLEVA, M.N., red.izd-va; TIKHANOV, A.Ya.,  
tekhn. red.

[Mobile pumping stations for irrigation] Peredvizhnye nasosnye  
stantsii dlia orosheniia. Moskva, Mashgiz, 1962. 115 p.  
(Pumping stations) (Irrigation) (MIRA 16:3)

KUNDZICH, M.M., inzh.

Methods for determining pasture areas supplied with water. Gidr. 1  
mel. 14 no. 7:54-56 J1 '62. (MIRA 17:2)

1. Upravleniye vodnogo khozyaystva Ministerstva sel'skogo khozyaystva SSSR.

KUNDZICH, Mikhail Mikhaylovich; ORLOVA, V.P., red.; AZARKH, N.Ya.,  
spets. red.; GUREVICH, M.M., ~~tekh.~~ red.; TRUKHINA, O.N., tekhn. red.

[Equipment for rural water supply] Oborudovanie dlia sel'-  
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1963. 127 p. (MIRA 16:9)  
(Water supply engineering)

KUNDZICH, M.M., inzh.

Automatic water-pumping units. Gidr. i mel. 15 no.8:43-46  
Ag. '63. (MIRA 16:8)

1. Upravleniye vodnogo khozyaystva Ministerstva sel'skogo  
khozyaystva SSSR.

KUNDZICH, M.M., inzh.

Water-jet pumps. Gidr. i mel. 15 no.12:48-53 D '63.

(MIRA 17:2)

1. Upravleniye vodnogo khozyaystva Ministerstva sel'skogo  
khozyaystva SSSR.

I 13898-66 EWT(1)/T IJP(e) CC  
ACC NR: AP8003170

SOURCE CODE: UR/0030/65/000/012/0096/0097

AUTHOR: Vitol, I. K.; Zakis, Yu. R.; Kundzin', A. P.

ORG: none

TITLE: Study of electronic processes in thin film structures  
(Symposium in Riga)

SOURCE: AN SSSR. Vestnik, no. 12, 1965, 96-97

TOPIC TAGS: thin film circuit, semiconducting film, pn junction, space charge, electronic conference, semiconductor carrier, electron emission, solid state physics conference

ABSTRACT: A symposium on electronic processes in thin film structures was held in Riga on May 20-25, 1965. The symposium was sponsored by the Scientific Councils on Semiconductor Physics and Chemistry and Physical Electronics of the Academy of Sciences SSSR, the Scientific and Technical Council of the Ministry of the Electronics Industry of the SSSR and the Latvian University im. P. Stuchki. A total of 350 representatives of scientific organizations from Moscow, Leningrad, Gorkiy, Tashkent, Vilnius, Kiev, Riga, and other cities attended the symposium. The following problems were discussed: physical mechanisms of the pas-

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ACC NR: AP6003170

sage of current through thin film structures, currents limited by space charge, studying properties of contacts by studying the behavior of hot electrons in thin film systems, electron emission from thin gold films during passage of current, physics of contact phenomena; theoretical studies of electric and physical properties of thin films (particularly the study of statistical and pulse characteristics of triodes), theoretical studies of the behavior of carriers in thin films, and analysis of modern concepts of heterojunctions.

SUB CODE: 20/    SUBM DATE: *none*

TS

Card 2/2



ACC NR: AP7004987

(A)

SOURCE CODE: UR/0048/66/030/009/1509/1510

AUTHOR: Kundzin', A.P.; Aleksandrov, S.B.; Zakis, Yu.R.

ORG: none

TITLE: Concerning the mechanism of electroluminescence of thin cadmium sulfide films /Report, Fourteenth All-Union Conference on Luminescence (Crystal Phosphors) held at Riga, 16-23 Sept. 1965

SOURCE: AN SSSR. Izvestiya. Soriya fizicheskaya, v. 30, no.9, 1966, 1509-1510

TOPIC TAGS: electroluminescence, cadmium sulfide, semiconducting film, photo emf

ABSTRACT: The authors investigated the electroluminescence of 1 mm<sup>2</sup> "sandwich" structures consisting of the following elements successively vacuum deposited onto glass substrates: a semitransparent gold film electrode; an approximately 1 micron thick film of cadmium sulfide into which no particular activator impurity had been introduced, and a 200 micron thick indium film electrode. The indium-phosphor contact was practically ohmic, but rectification was found to take place at the gold-phosphor contact. The temperature dependence of the current-voltage characteristic revealed the presence of a 0.6-0.7 eV Schottky barrier. The current-voltage characteristics had approximately the same shape at 90° K as at room temperature, but the currents were some four orders of magnitude smaller at the lower temperature. The rapid rise of the current in the forward direction (with the gold positive) set in at a potential

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ACC NR: AP7004987

somewhat below 1 V. The electroluminescence threshold potential was somewhat higher than 1 V, and the luminescence brightness increased very rapidly with increasing voltage. The luminescence spectrum showed a broad band in the 600-700 m $\mu$  region and a weak edge emission band. Photo-emf's (with the gold electrode positive) reaching 0.45 V at room temperature were observed. The photo-emf excitation curve had a peak at 620 m $\mu$  and in the 500-400 m $\mu$  region it was rising monotonically with increasing photon energy. It is concluded that the low-voltage stationary electroluminescence of the investigated systems in a dc field is due to double injection of carriers, i.e., to the simultaneous injection of electrons and holes. The authors thank Yu.R.Berkovich for measuring the height of the barrier and V.L.Shteynberg for determining the photo-emf excitation curve. Orig. art. has: 1 figure.

SUB CODE: 20

SUBM DATE: none

ORIG. REF: 006

OTH REF: 011

Card 2/2

KACALOVA, O.; KUMSARE, A.; KUNDZINS, M.; SKLENNIKS, C., red.;  
CERNOBROVA, L., tekh. red.

[Large lakes in the vicinity of Riga]Lielie ezeri Rigas ap-  
kartne. Riga, Latvijas PSR Zinatnu Akademijas Izdevnieciba,  
1962. 66 p. (MIRA 16:2)  
(Riga region--Lakes)

KUNDZIN, <sup>5H</sup>A. V. In Latvian

KUNDZIN, A. V. -- "Investigations of the Conditions and Methods of Assisting the Natural Restoration of Pine in the Most Important Pine Types of the Latvian SSR." Latvian Agricultural Academy, 1949. In Latvian (Dissertation for the Degree of Candidate of Agricultural Sciences)

SO: Izvestiya Ak. Nauk Latvyskoy SSR, No. 9, Sept., 1955

KUNDZIN'SH, A. V.

Alder - Latvia

Cultivation of black alder in the Latvian S. S. R. A. V. Kundzin'sh. Les. Khoz.  
5, No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September <sup>1952</sup> ~~1953~~, Unclassified.

OVSYANKIN, V.N., kand. biol. nauk, otv. red.; KUNDZIN'SH, A.V. [Kundzins,A.],  
kand. sel'khoz. nauk, red.; SARMA, P.E., kand. sel'khoz. nauk, red.;  
BAGRAMYAN, S., red.; SIDYAKOV, L., red.; SHMIT, I., tekhn. red.

[Forest and Orchard Days; outlines on forestry, gardening and land-  
scaping] Dni lesa i sada; ocherki po lesnomu khoziaistvu, sadovodstvu  
i zelenomu stroitel'stvu. Pod obshechi red. V.N.Ovsiankina, Riga, Izd-  
vo Akad.nauk Latviiskoi SSR, 1954. 256 p. (MIRA 14:12)

1. Latvijas Padomju Socialistiskas Republikas Zinatnu akademijs. Mez-  
saimniecibas problemu un koksnes kimijas instituts.  
(Latvia--Forests and forestry) (Latvia--Horticulture)

KUNDZINISH, A.V.

USSR/Forestry - Forest Biology and Typology.

K-2

Abs Jour : Ref Zhur - Biol., No 5, 1958, 20107

Author : Kundzinish, A.V.

Inst : Institute for Problems of Forest Management, Academy of Sciences, Latvian SSR.

Title : The Natural Seed Renewal of the Black Alder.

Orig Pub : Tr. In-ta lesokhoz. problem. AN LatvSSR, 1956, 11, 59-80

Abstract : This study was made in the Latvian SSR. It was found that the decisive factor in renewing the black alder is temperature conditions, moisture and light. Where these conditions become poorer one sees the effect most particularly under the canopy of the wood where the black alder shoots die off as early as the first year. Successful seed renewal of the black alder is observed in fresh forest cutting areas where the grass blanket has not yet succeeded in

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K-2

Abs Jour : Ref Zhur - Biol., No 5, 1958, 20107

developing when felling coincides with the seeding year and is performed after the seeds have fallen. Successful alder renewal was also noted in former plowlands (in the year following the termination of the culture) when there were seed sources nearby, as well as on abandoned meadows of limited value. The nature of the grass blanket showed a diverse effect on the viability of black alder seedlings. Means are shown for instituting natural renewal.

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USSR / Forestry. Forest Plants.

K-5

Abs Jour: Ref Zhur - Biologiya, No. 1, 1958, 1378

were discovered. It has been determined that the eleven-year old hybrids exceed both in height and diameter not only the average, but even the most highly developed, black and gray alder trees of the same age. The hybrids are estimated to be extremely drought resistant and capable of thriving on relatively infertile soil. Their biological and ecological characteristics indicate a certain economic importance, especially when used for afforestation of ecologically unfavorable areas. At the present time the Institute of Forest Economy Problems of the Academy of Sciences LatvSSR is conducting experiments in the sexual hybridization of the alder and the stripping of green cuttings of

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USSR / Forestry. Forest Plants.

K-5

Abs Jour: Ref Zhur - Biologiya, No. 1, 1958, 1378

natural hybrids with application of growth stimulators (results of the first experiments are given).

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RVNDZINŠ, A.

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Conditions and methods of cultivation of black alder in Latvia. p. 103.

PIĻDZĪVĒSKĀLA MAUKA; SELSKOMU I LĒSKOMU ĪKĶĒJĀJĒVĒ. (Latvijas PSR  
Zinātnu akadēmija. Bioloģijas zinātnu nodaļa) Rīga, Latvija, No. 3, 1957.

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August 1959.  
Uncla.

KUNDZIN'SH, A.

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How to improve the natural seed renewal of the black alder. p. 107.

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August 1959.  
Uncla.

KUNDZIN'SH, J.

KUNDZINS, A. ; KALNINS, A.

Vegetative propagation of tree-bush species. p. 117.

BIOLOGICHESKAIA MANKA; SELSKOMU I LESKOMU KHOZJAISTVU. (Latvijas PSR  
Zinatnu akademijs. Biologijas zinatnu nedala) Riga, Latvia, No. 3, 1957.

Monthly list of East European Accessions (EEAI), IC, Vol. 8, No. 8,  
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Science of the forest economy to the national economy. In Russian.  
Vestis Latv ak no.7:219-227 '60. (EEAI 10:7)  
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Effect of perorally administered tryptophan on the blood picture in patients with malignant neoplasms treated with Thio-TEPA, cyclophosphane or X rays. Izv. AN Latv. SSR no.10:87-94 '63. (MJRA 17:1)

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Local application of olivomycin in treating cancerous ulcers. Antibiotiki  
8 no.12:1113-1116 D '63. (MIRA 17:10)

1. Latviyskaya respublikanskaya klinicheskaya bol'nitsa imeni Stradynya  
i Institut eksperimental'noy i klinicheskoy meditsiny AN Latviyskoy SSR,  
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NYRKOV, Ye.S., kand. tekhn. nauk; GRES', V.V., inzh.; KUNEGIN, V.S., inzh.

Application of polytetrafluoroethylene insulation on cables.  
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KUNEL'SKAYA, V. Ya. (Moskva)

Use of corticosteroid preparations in chronic and subacute forms  
of external otitis. Zhur. ush., nos. i gor. bol. 24 no.2:20-22  
Mr-Ap '64 (MIRA 18:1)

1. Iz kliniki bolezney ukha, gorla i nosa (direktor - deystvi-  
tel'nyy chlen AMN SSSR, prof. B.S. Preobrazhenskiy) lechebnogo  
fakul'teta 2-go Moskovskogo meditsinskogo instituta imeni N.I.  
Pirogova.

KUNEL'SKAYA, V.Ya.; STEPANISHCHEVA, Z.G., doktor biol. nauk

Fungi in otitis externa. Vest. dermat. i ven. 38 no.10:51-55  
O '64. (MIRA 18:7)

1. Klinika bolezney ukha, gorla i nosa (direktor - deystvitel'-nyy chlen AMN SSSR, prof. B.S. Preobrazhenskiy) lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova i mikologicheskii otdel (zav. - prof. A.M. Ariyevich) Tsentral'nogo kozhno-venerologicheskogo instituta Ministerstva zdravookhraneniya SSSR.