POENARU, L.: LAZARESCU, V.

Thermal conditions necessary for the start of grapevine vegetation. p. 181

STUDII SI CERCETARI DE BIOLOGIE. SERIA BIOLOGIE VEGETALA. Bucuresti, Rumania. Vol. 11, no. 2, 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 2, August 1959.

Uncl.

POENARU, M.

Efficient and economical means for the increase of steel production. p. 91.

METALURGIA SI CONSTRUCTIA DE MASINI

Vol. 8, no. 1, Jan. 1956

Rumania

Source: EAST EUROPEAN LISTS   Vol. 5, no. 10   Oct. 1956

POENARU, S.

Data on the incidence of convulsive accidents in children and
adolescents with hypoglycemic states of various etiologies.
Stud. cercet. neurol. 10 no.3:167-181 Je '65.

MILCOU, St.-M.; MAXIMILIAN, C.; STANESCU, V.; FLOREA, I.;
     POENARU, S.; AUGUSTIN, M.

     Turner's syndrome with hydrocephalus internus, petit mal and
     XO/XX mosaic. Rev. sci. med. 8 no.3/4:141-145 '63.

     1. Member of the Academy of the R.P.R. (for Milcou)
             (TURNER'S SYNDROME)   (HYDROCEPHALUS)
             (EPILEPSY)   (MENTAL DEFICIENCY)
             (CHROMOSOME ABNORMALITIES)

POENARU, S.; CALCAIANU, G.; POPESCU, H.

Electromyographic aspects of some endocrine diseases. Stud.
cercet. endocr. 15 no.1:49-61 '64.

STANESCU, V.; IONESCU, V.; FLOREA, I.; POENARU, S.

The diagnosis of incipient hyperthyroidism in children and
adolescents. Stud. cercet. endocr.   . 14 no. 3:341-354
'63.

(HYPERTHYROIDISM) (THYROID FUNCTION TESTS)
    (IODINE ISOTOPES, DIAGNOSTIC)

MILCU, St. M., academician; STANESCU, V.; IOANITIU, D.; CIURDAREANU, I.;
IONESCU, V.; POENARU, S.; MAXIMILIAN, C.

The Laurence-Moon-Biedl-Bardet syndrome: a familial case. Stud. cercet.
endocr. 13 no.1:95-104 '62.

(LAURENCE-MOON-BIEDL SYNDROME genetics)

ISTRATI, G.; MEITERT, T.; CIUFECO, C.; BORDEIANU, Vera; ALEXA, Eugenia;
    POENARU, Teodorina; MARTIN, Lidia

Phage typing of Shigella. IV. Phage typing of strains of Shigella
felxneri 2a isolated from sporadic cases and epidemic foci of
dysentery. Arch. roum. path. exp. microbiol. 21 no.2:368-372 '62.

1. Inst. "Dr. I. Cantacuzino" (for Istrati, Meitert, Ciufeco).
2. Centre Sanitaire Antiepidemique de l'Institut "Dr. I. Cantacuzino" --
Service des Enterobacteriacees (for Bordeianu, Alexa, Poenaru,
Martin).
            (SHIGELLA)   (BACTERIOPHAGE TYPING)   (DYSENTERY, BACILLARY)

1 - F/W

Poenaru, Valentin. Une nouvelle démonstration du théorème de recouvrement de Vitali. Com. Acad. R. P. Romîne 4 (1954), 191–194. (Romanian. Russian and French summaries)

In the Vitali theorem demonstrated in this note, the basic set M is covered by a family of closed sets F such that, for each $\varepsilon > 0$, each element P of M belongs to a set F with $|F| < \varepsilon$ ($|F|$=measure of F) and to every F there exists one of a set of parallelepipeds A such that $|F|/|A(F)| > \theta$, θ independent of F, the parallelepipeds A being regular in the sense that the ratio of the lengths of any two edges is between k and $1/k$, k fixed.

T. H. Hildebrandt (Ann Arbor, Mich.).

POENARU, V.

Faidman, A.p and Poenaru, V. Establishing a topology for certain assemblage families. Com. Acad. R. P. Romîne 4(1954), 195-197. (Romanian, Russian and French summaries)

3

Poenaru, Valentin. Propriétés métriques des congruences. Com. Acad. R. P. Romîne 5 (1955), 295–301. (Romanian. Russian and French summaries)

1 - F/W

Using results of the paper reviewed above, the author studies some metric properties of such congruences. Let E be a measurable plane set, let $y=f(x, t)$, where the parameter t is the ordinate y_0 at $x=0$, and let $E(t)$ be the projection on the x-axis of the intersection of $y=f(x, t)$ with E. The measure of $E(t)$ is then studied as a function of t. The main result of the paper seems to be the following statement: Let $y=f(x)+t$, where $f(x)$ is a continuous function. Let $F(x, y)$ be summable and vanish outside the domain D bound by $x=a$, $x=b$, $y=f(x)+t_0$, $y=f(x)+T$. Then $F(x, y(x)+t)$ is summable for almost all t and $\iint_D F dx dy = \int_{t_0}^T dt \int_a^b F(x, y(x)+t) dx$. The reviewer does not see why this result should not follow directly from Fubini's theorem, nor why F is required to vanish outside D.

E. *Grosswald* (Philadelphia, Pa.).

Poenaru - Valentin

Foias, Ciprian; Gussi, George; and Poenaru, Valentin.
Sur le problème polylocal pour les équations différentielles linéaires du second ordre. Acad. R. P. Romine. Bul. Ști. Sect. Ști. Mat. Fiz. 7 (1955), 699-721. (Romanian. Russian and French summaries)

Let y be a solution of a linear, homogeneous differential equation with real coefficients and let x_1, x_2 be two real roots of $y(x)$. De La Vallée Poussin has shown [J. Math. Pures Appl. (9) 8 (1929), 125-144] that there exists a constant h, depending only on the coefficients of the differential equation, such that $x_1 - x_2 < h$ implies $y(x) = 0$. The author studies the particular case of the second-order differential equation $y'' + A(x)y = 0$, with $A(x)$ a continuous function. He indicates an algorithm for the computation of h with any desired accuracy. The method consists in proving first that h is a continuous functional with respect to $A(x)$. This permits one to approximate $A(x)$ uniformly over the closed interval (a, b), by its sequence of Bernstein polynomials and to approximate two independent solutions also by polynomials of two sequences, $P_k(x)$ and $Q_k(x)$. For a given k, the least distance between consecutive zeros of $y(x) = C_1 P_k(x) + C_2 Q_k(x)$ is the common root h of

$$\frac{P_k(x+h)}{Q_k(x+h)} = \frac{P_k(x)}{Q_k(x)}$$

and of

$$\frac{d}{dx}\left\{\frac{P_k(x+h)}{Q_k(x+h)}\right\} = \frac{d}{dx}\left\{\frac{P_k(x)}{Q_k(x)}\right\}.$$

1 - F/W

FOIAS, CITRON; GOSSI, GEORGE

Eliminating x, one obtains an equation in h; its smallest root r such that the root x of $y(x)$ and $x + r$ both belong to (a, b) is then taken as the approximation h_2 of h. A very detailed investigation is made, in order to ascertain that the value h_2 so obtained satisfies $|h - h_2| < \varepsilon$, with any preassigned $\varepsilon > 0$. It is asserted (following Joukowsky) that if $A(x)$ is periodic, of period ω, the solutions of the differential equation stay bounded at infinity, provided that $\omega < h$.

E. Grosswald (Philadelphia, Pa.).

POENARU, V.; FOIAS, C.; GUSSI, G.

ON the generalized solutions of certain linear and quasilinear equations in the banach space. In French. p. 283.

REVUE DE MATHERMATIQUES PURES ET APPLIQUEES. JOURNAL OF PURE AND APPLIED MATHEMATICS. (Academia Republicii Populare Romine) Bucuresti. Rumania:
Vol. 3, no. 2, 1958.

Monthly List of East European Accessions (EEAL) LC Vol. 9, no. 1, January 1960.
UNCL

POENARU, Valentin

On a class of three-dimensional manifoldnesses. I. Rev math pures 4
no.4:651-659 '59.   (EEAI 10:9)

(Dimensional analysis) (Matrices)
  (Groups, Theory of)   (Calculus of operations)

POENARU, V.

"Fundamentals of general topology" by Akos Csaszar. Reviewed by V.
Poenaru. Rev math pures 6 no.2:404-405 '61.

POENARU, V.

"Homology theory (An introduction to algebraic topology)."
Reviewed by V. Poenaru. Rev math pures 6 no.4:807-808
'61.

POENARU, V. (Bucuresti)

On the cohomology of singular invariant co-chains on a topological compact connected group. Fund mat 50 no.1:1-12 '61.

POENARU, V. (Bucuresti)

On the cohomology of singular invariant cochains on a topological group compact and connected. Fund mat 50 no.1:1-12 '61

POESCH, Heinz, dr. ing (Berlin)

Modern methods of snow removal. Przegl techn 79 no.1:21-25
Ja '58.

1. A.G. Rolba, Berlin.

POESCU, G.; CARMAZIN, V.

The forest theater. p. 410

(REVISTA PADURILOR. Vol. 71, No. 6, June 1957. Bucuresti, Rumania)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 10, October 1957. Uncl.

POETOVA, V.T.; RAYBEKAS, M.F.
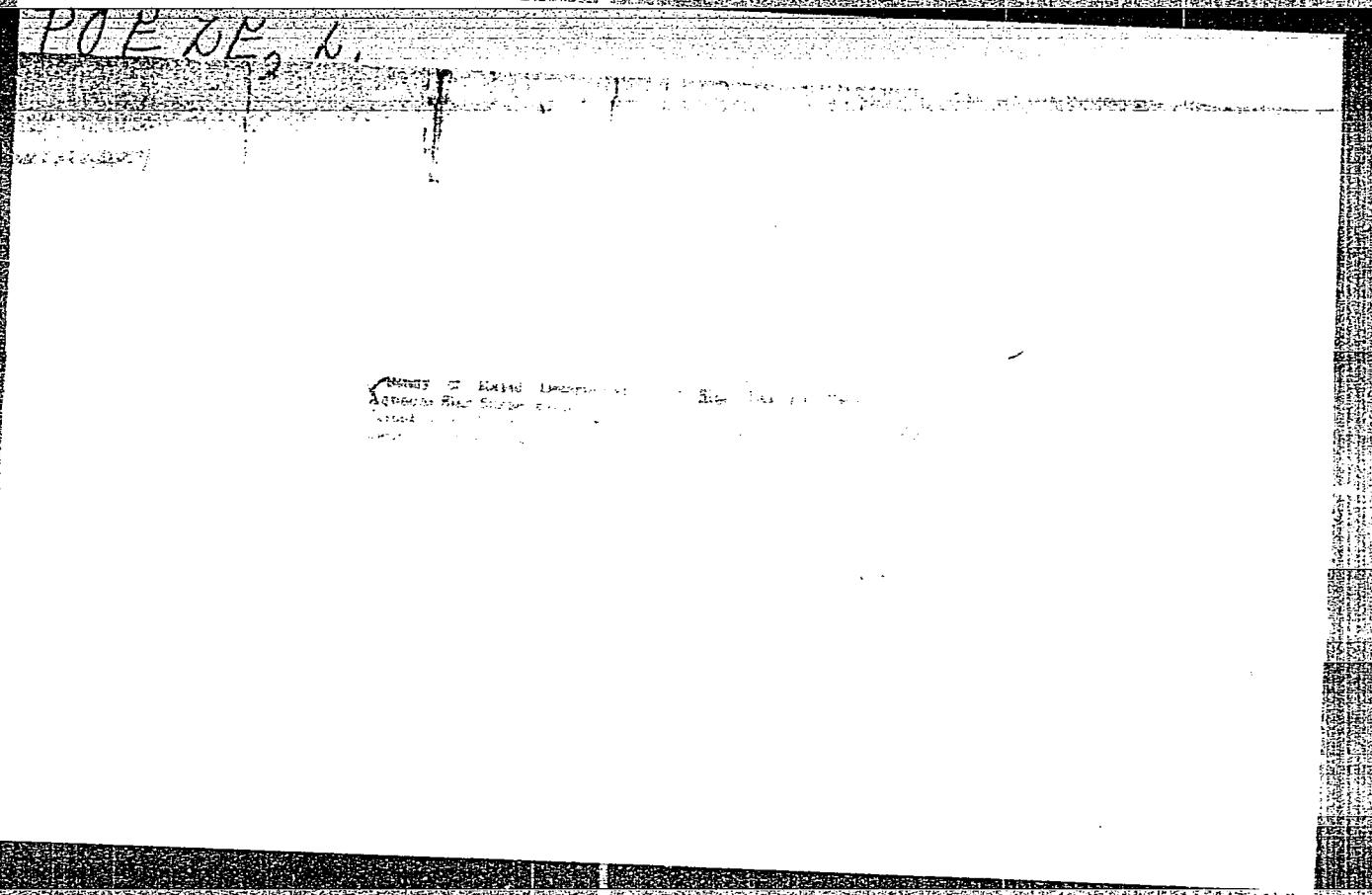
Distribution of erythrocytes in the blood as to their immune resistance in a healthy person. Izv. SO AN SSSR no.12: Ser. biol.-med. nauk no.3:127-132 '64.
(MIRA 18:6)

1. Institut fiziki Sibirskogo otdeleniya AN SSSR, Krasnoyarsk.

POETOVA, V.T.; GITEL'ZON, I.I.; TERSKOV, I.A.

Immune resistance of erythrocytes. Vop.biofiz.,biokhim.i pat.
erit. no.2:153-162 '61.
            (ERYTHROCYTES) (IMMUNOHEMATOLOGY)   (MIRA 16:3)

POPALITOV, A.

      Even a little mound can overturn a big cart. Okhr.truda i
sots.strakh. 3 no.4:56-57 Ap '60.   (MIRA 13:6)

1. Zaveduyushchiy otdelom okhrany truda dorprofsozha L'vovskoy
zheleznoy dorogi.
          (Lvov—Railroads—Safety measures)

POFALITOV, A., prepodavatel'

Way for acknowledge is clear. Okhr. truda i sots. strakh. 7 no.2:10-11 F '64.

(MIRA 17:2)

1. Tekhnicheskiy inspektor dorozhnogo komiteta Professional'nogo soyuza rabochikh zheleznodorozhnogo transporta, i L'vovskiy narodnyy universitet okhrany truda.

MIKHAL'SKIY, Vladislav Nikolayevich; POFALITOV, Anufriy Pavlovich;
    MERKEL', Ya.P., inzh., retsenzent; BRAYLOVSKIY, N.G., inzh.,
    red.; USENKO, L.A., tekhn. red.

[Organization of the conveyer method of car repairs;
experience of the Stryy Railroad Car Repair Plant] Organiza-
tsiia konveiernogo metoda remonta vagonov; opyt Stryiskogo
vagonoremontnogo zavoda. Moskva, Vses. izdatel'sko-poligr.
ob"edinenie M-va putei soobshcheniia, 1961. 79 p.
                                        (MIRA 15:2)
    (Stryy--Railroads--Repair shops)
        (Assembly-line methods)

622.673 6

1116
Kowalczyk J., Polcíski M. The Problem of Durability of Steel Ropes
in Mines
    „Problem trwałości lin stalowych w górnictwie". Przegląd Górni-
czy. No. 3, 1951, pp. 90—96, 12 figs.
    The brevity of the life of winding ropes is due to faulty manu-
facture in the various phases of the technological process, and espe-
cially in the heat-treatment of wires, to an inaccurate choice of
rope construction for given conditions, to defects in or the bad con-
dition of some parts of the installation connected with the work
performed by rope, to mistakes made while changing the ropes, to
their increased number of winding in the time unit, and finally to
unsatisfactory maintenance during the operation. Analysis of factor
groups influencing the durability of ropes, such as: 1) quality of raw
material, 2) manufacturing of steel wire and of rope, 3) use of ropes.

HOFFMAN, B.;BENTKOWSKI, Z.;POPELIS, R;PROKULEWICZ, S.

Further study on isoantagonists of Escherichia coli and its
significance in infantile diarrhea. Pediat. polska 26 no. 10:
1116-1126 Oct. 1951.   (CLML 21:3)

1. Of the First Pediatric Clinic (Head--Prof. H. Hirszfeldowa,
M. D.) of Wroclaw Medical Academy and of the National Institute
of Hygiene Branch in Wroclaw. (Head--Eng. I.Szczepanski, M. D.).

F

A

3600. DURABILITY OF WIRE ROPES IN MINES. Kowalczyk, J. and
Pofolski, M. (Transl. Gornicsy (Min. Rev.), Mar. 1951, vol. 7, 90-96).
(L).

POFELSKI, M

2206.   TECHNICAL ACCEPTANCE TESTS OF WINDING ROPES.   Koralewski, J.
and Pofelski, M.   (Przegl. gcrn. (Min. Rev.), Apr. 1958, 130-137;
Mining, Metal. Abstr., vol. 1, (9), 1765).   The steadily increasing use
intensity of shaft winding ropes calls for greater rigour in technical
acceptance tests and particularly for a curtailment of effective thickness
as well as for the introduction of torsion tests, both for plain and
galvanised wires.   It is recommended that tests over the thickness of
zinc coating are carried out by means of the Schreek apparatus.   (H.L.

POFELSKI, M.

1466. STANDARD OF HOISTING ROPES IN MINES. Kownoczyk, J. and Pofelski, M. (Przegl. Gornicsy (Min. Rev.), Oct. 1952, vol. 7, 404-412).

A scheme is described for reducing the number of types from 54 to 14. (L).

immediate source clipping

POFEROVA, Anna; TRETINOVA, Zora

Examination of the feet in newborn infants. Cesk. pediat. 16 no.6:
518-522 Je '61.

1. Novorozeneeke oddeleni I. mestske nemoenice v Brne, vedouci
MUDr. A. Pojerova Ortopedieke oddeleni Krajske detske nemoenice v
Brne, predn. MUDr. J. Janek.

(FOOT abnorm)   (INFANT, NEWBORN dis)

GERASIMOV, V.P.; POGA, A.A.; STSEPURO, V.P.

Produced equipment should be on the level of best standards.
Mashinostroitel' no.9:8 S '65.   (MIRA 18:12)

POGA, L.I.

Intravenous infusion of penicillin with novocaine in suppurative
diseases of the hand and fingers. Voen.-med.zhur. no.7:62-66 Jl '57.
       (HAND, dis.   (MIRA 11:1)
          suppurative, ther., intravenous infusion of
          penicillin & procaine)
       (FINGERS, dis.
          same)
       (PENICILLIN, ther. use
          procaine penicillin, intravenous infusion in suppurative
          dis. of hand & fingers)
       (PROCAINE, ther. use
          same)

KORNAYEV, M.Z., POGA, R.I., konstruktor

Useful adoptation. Elek. i tepl. tiaga 4 no.5:29 My '60.
(MIRA 13:7)

1. Glavnyy konstruktor Astrakhanskogo zavoda (for Kornayev).
(Diesel locomotvies) (Grinding and polishing)

KARNAYEV, M.Z.; POGA, R.I., konstruktor

Efficiency proposals increase labor productivity. Elek.i tepl.
tiaga. 4 no.6:24-25 Je '60.   (MIRA 13:8)

1. Glavnyy konstruktor Astrakhanskogo teplovozoremontnogo zavoda
(for Karnayev).
            (Diesel locomotives--Technological innovations)

POGACAR, I.

Danger of poisoning becasue of the ethylation of gasoline (Conclusion)p. 108

STROJNISKE VESTNIK (Fakuleta za eletroehniko in strojnistvo Univerze v Ljubjani Institut za turbostroje v Ljubljana Drustov strojnih inzenirjev in tehnikov LR Slovenije in Storjna industrija Slovenije) Ljubljana, Yugoslavia. Vol 4, no. 3/4, June 1958

Monthly List of East European Accession EEAI LC, Vol 8, no. 6, June 1959
Uncla.

POGACAR, Ivan, ing. (Maribor)

Institute for motors and motor vehicles. Stroj vest 7 no. 4-5:137-139
O 61.

1. Tovarna avtomobilov in motorjev, Maribor.

... ., V. S.; VOINOVA, N. A.; DZHELEPOV, B. S.; POGACHEV, I. M.

"The Spectrum of Conversion Electrons of Ta^{182}(The Region of Low Energies)."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.

LGU, FTI (Leningrad State Univ, Physico Technical Inst)

POGACHEV, V. P., POZDNIKOV, V. N., YANUSHKOVSKIY, V. A., BANASHEK,V.E., and
DEKHTYAR, D. Yu., DOMBUR, A. Ya.

"Application of Relay Action Radioactive Instruments for
Automatic Systems in Technological Processes of the Chemical Industry
of the Latvian SSR, Sovnarkhoz"

paper presented at the All-Union Seminar on the Application of
Radioactive Isotopes in Measurements and Instrument Building,
Frunze (Kirgiz SSR), June 1961)

Pogacheva, L.I.

PHASE I BOOK EXPLOITATION   SOV/1700

Lvov. Universitet

Materialy X Vsesoyuznogo soveshchaniya po spektroskopii, 1956.
t. II: Atomnaya spektroskopiya. (Materials of the 10th All-Union Conference on Spectroscopy, 1956. Vol 2: Atomic Spectroscopy)
L'vov, Izd-vo L'vovskogo univ., 1958. 568 p. (Series: Its: Vsesoyuznyy sbornik, vyp.4(9)) 3,000 copies printed.

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

Editorial Board: S.S. Landsberg, Academician. (Resp. Ed.);
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Candidate of Physical and Mathematical Sciences; V.S. Milyanchuk
(Deceased), Doctor of Physical and Mathematical Sciences; A.Ye.
Glauberman, Doctor of Physical and Mathematical Sciences;
Ed.: S.L. Gazer; Tech. Ed.: T.V. Saranyuk.

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

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

Card 2/31

Materials of the 10th All-Union Conference (Cont.)   SOV/1700

Karabash, A.G., Sh.I. Peyzulayev, R.L. Slyusareva, M.P.
Semenkova, M.I. Shuimova-Averina, Z.M. Sessonova, L.S.
Kraus, G.G. Morozova, L.S. Mozanovich, I.I. Salreukina,
V.M. Lipatova, S.K. Jazanova, L.I. Pogacheva, V.T.
Bascheva, Ye.P. Voronova, P.D. Gorbatov, T.A. Kostareva,
R.S. Losterava, A.I. Yeloretskaya, and K.M. Kuznetsova.
Methods of Spectrochemical Analysis of Pure Metal for
Impurities

                                    TV/AFB
AVAILABLE: Library of Congress   7-7-59

Card 31/31

IORDANESCU, C., ing.; POGACI, D., ing.; COSTESCU, Alex., ing.;
    BUDA, Alex., ing.

Valorization of powder from clinker kilns. Constr Buc 17
no.784:2 16 Ja '65.

1. "Stinca" Cement Works, Braila (for Iordanescu).
2. Fieni Cement Works (for Pogaci, Costescu).
3. "Victoria socialista" Cement Works, Turda (for Buda).

POGACNIK, Anton

"Peoples without metals" by [dr., deceased] Bozo Skerlj.
Reviewed by Anton Pogacnik.   Biol vest no.10:137-138
'62.

POGACNIK, Anton

Estimation of bone volume by anthropometrical method. Biol
vest 9:125-132 '61.

1. Antropoloski oddelek Bioloskega instituta Univerze v
Ljubljani: Tehnicni urednik, "Bioloski vestnik."

POGACNIK, Metod

Chemical Abstracts
May 25, 1954
Dyes and Textile Chemistry

The synthesis of organic dyes. Igor Belič, Zora Gabrijel-čič, Metod Pogačnik, Vladimir Premru, Ivo Stojković, Mihailo Žisić, Gojko Zupan, and Vlado Zupan (Inst. Ind. Research, Ljubljana). Kem. Zbornik 1951, 128-38.— The synthesis of many dyes used in the textile and other industries is discussed. Brief descriptions of the synthesis are given for the following dyes: (1) sulfate black; benzene is chlorinated to produce monochlorobenzene which is then nitrated to produce 1-chloro-2,4-dinitrobenzene. This is converted to 2,4-dinitrophenol by heating with NaOH. The 2,4-dinitrophenol is heated with a soln. of polysulfide and the product, upon oxidation in air, gives the sulfate black dye. This method has been used on a semi-industrial scale to produce 10-ton amts. of the dye. (2) Sulfate blue; chlorobenzene is nitrated to give a mixt. of o- and p-nitrochlorobenzene. The latter is treated with NaOH soln. in an autoclave at 6-7 atm. pressure to give nitrophenol. This is reduced in the presence of Fe in a salt (NaCl) soln. to give p-aminophenol which is condensed with 1-chloro-2,4-dinitrobenzene to give 2,4-dinitro-4'-hydroxydiphenylamine. Heating this product with a soln. of Na_2S in various concns. and under different conditions followed by oxidation gives 2 blue dyes of different identity. (3) Sulfate brown; naphthalene is nitrated to give mononitronaphthalene which is further nitrated to produce a mixt. of 1,5- and 1,8-dinitronaphthalene which is then heated in a rotating Fe drum with Na_2S and S to produce the dye. (4) Hydron Olive dye; anthracene is heated in a rotating drum with S. The product is extd. with Na_2S to produce the dye. (5) Chrome blue and chrome black for wool; a soln. of 2-naphthol is treated with a soln. of

2/2 Igor Belic, etc.   6)

NaNO₃ in H₂SO₄ to produce 1-nitroso-2-naphthol, which upon the addn. of NaHSO₃ and H₂SO₄ gives 1-amino-2-naphthol-4-sulfonic acid. This is then subjected to the diazo reaction to form 1-diazo-2-naphthol-4-sulfonic acid. The Na salt of this acid is treated with a soln. of the Na salt of 2-naphthol. This produces a dark blue dye. (6) Nigrosine; this dye is prepd. by heating PhNH₂.HCl with PhNO₂ and treating the reaction product with NaOH. The syntheses of azo dyes and of indanthrene dyes are also discussed.
                                J. Rovtar Leach

POGACNIK, Milos

Successful treatment of agranulocytosis with the use of bone
marrow transplantation. Zdrav. vestn. 33 no.6:179 '64

1. Interni oddelek splosne bolnisnice Jesenice (Predstojnik:
prim. dr. Fr. Brandstetter).

FONYO, A.; KOVACH, A.G.B.; VITTAY, T.; POGACSA, G.

In vitro consumption of glucose and ATP synthesis in brain tissue in
animals in shock. Acta physiol. hung. Suppl. no.6:25-26 1954.

1. Physiologisches Institut der Medizinischen Universitate, Budapest.
        (GLUCOSE, metab.
            consumption by brain homogenates in exper. shock)
        (SHOCK, exper.
            eff. on glucose consumption & ATP synthesis by brain
            homogenates)
        (BRAIN, metab.
            glucose consumption & ATP synthesis, eff. of exper.
            shock)
        (ADENYLPHROPHOSPHATE, metab.
            synthesis by brain homogenates, eff. of exper. shock)

POGACSAS, GY.

Tasks for state farms. p. 1.   (Allami Gazdasag, Vol. 8, no. 2, Feb. 1956 Budapest)

SO: Monthly List of East European Accession   (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

S/124/63/000/003/044/065
D234/D308

AUTHOR: Pogadayev, I. K.

TITLE: Design of frames for free vibrations by the method
              of successive approximations

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 3, 1963, 17-18,
              abstract 3V156 (Izv. vyssh. uchebn. zaved. Str-vo i
              arkhitekt., 1962, no. 3, 50-58)

TEXT: The author considers free and constrained frames with rec-
tilinear elements of constant flexural rigidity and with mass uni-
formly distributed along the rods. The method of displacements is
adequate. The deflection function is represented in the form ·

$$y(x,t) = \sum_{1}^{n} z_k(t)y_k(x)$$

Card 1/3

Design of frames ...

where $y_k(x)$ for each rod must satisfy the differential equation of free vibrations

$$y_k^{IV}(x) - \frac{u^4}{1^4} y_k(x) = 0$$

$$u^4 = 1^4 \frac{m\omega^2}{EI}$$

and the boundary conditions. Taking an approximate value of the unknown frequency $\bar{\omega}$ (or of the frequency parameter $\bar{u}$) the deformed state of the system is defined by n coordinates $Z_k(t)$ which are the displacements of the knots of the system. The given system with infinite degrees of freedom then reduces to one with a finite number of degrees of freedom. $Z_k(t)$ is sought in the form $Z_k(t) =$

Card 2/3

Design of frames ...

$= z_k \sin (\omega t + \alpha)$, which leads to a frequency equation

$$|R - \lambda T| = 0, \quad \lambda = \frac{\omega^2}{\overline{\omega}^2} - 1$$

where R and T are matrices whose elements are r_{ik} (reactions of the method of displacements) and t_{ik}. These quantities are determined from formulas deduced in the paper, whose use is simplified by tables. The transcendental frequency equation is replaced by an algebraic one. Numerical examples illustrate the methods of application of successive approximations which make it possible to determine the frequency with a degree of accuracy. $\big/$ Abstracter's note: Complete translation. $\big/$

Card 3/3

POGADAYEV, P.

Activate the work of all links. NTO 4 no.11:10 N '62.
(MIRA 16:1)

1. Predsedatel' Permskogo oblastnogo pravleniya Nauchno-tekhni-
cheskogo obshchestva pishchevoy promyshlennosti.
(Perm Province—Food industry)

VASIL'YEV, A.I.; KADZHAN, L.M.; POGADAYEV, V.I.

Remodeling of the extruder nozzle of the KDH-2 machine. Torf. prom.
35 no.7:34-35 '58.   (MIRA 11:11)

1. Torfpredpriyatiye Degtyarskoye.
        (Peat machinery)

ACCESSION NR: AT4017405   S/0000/63/000/000/0003/0007

AUTHOR: Kozlova, Yu. S.; Pogadayeva, A. A.; Rogovin, Z. A.

TITLE: Synthesis of new derivatives of cellulose and other polysaccharides. XXVIII. Synthesis of grafted cellulose copolymers with polyacrylic and polymethacrylic acids

SOURCE: Tsellyuloza i yeye proizvodny*ye, sbornik statey (Cellulose and its derivatives) Moscow, 1963, 3-7

TOPIC TAGS: polysaccharide, cellulose, cellulose fiber, cellulose copolymer, grafted polymer, polymer brittleness, synthetic fabric

ABSTRACT: While searching for cellulose fibers with improved properties (particularly dyeing with basic dyestuffs and resistance to microorganisms), the authors prepared a variety of copolymers, defined their composition and examined their properties. Of the two methods of synthesis tested, first, a basic polymerization of acrylic and methacrylic acids in the presence of cellulose with ammonium persulfate as the initiator, and, second, a macroradical procedure after introduction of an aromatic amino-radical into the cellulose macromolecule followed by diazotization - the latter proved more adequate. The amount and the chain length of the polymer grafted into the cellulose were found to depend on the number of active centers in the cellulose macromolecule, the monomer

Card 1/2

ACCESSION NR: AT4017405

concentration in the solution, the temperature and duration of the reaction, and the nature of the monomer used. The grafted polymer yield may be brought up to 50-60% of the initial cellulose weight by expediently combining the conditions. However, it is not advisable to exceed a carboxyl group of 12-15% content because of the increasing brittleness of the product with a higher carboxyl content. The products obtained dye well and readily absorb moisture. A cellulose fabric containing grafted copolymers of this type shows increased resistance to microorganisms and readily exchanges cations. The synthetic procedure is given in detail. "A. Ya. Korotkova took part in the work. The cellulose fiber was treated by A. S. Kuznetsova in the Mikrobiologicheskaya laboratoriya TsNIILV (Microbiology Laboratory)." Orig. art. has: 3 tables.

ASSOCIATION: Moskovskiy tekstil'ny*y institut (Moscow Textile Institute)

SUBMITTED: 09Dec61   DATE ACQ: 06Jan64   ENCL: 00

SUB CODE: CH   NO REF SOV: 001   OTHER: 000

Card   2/2

POGADAYEVA, T.M.; ARGUNOV, Ye.I.

Equipment for the automatic assaying for moisture of
asbestos ores following their drying. Nauch. trudy
VNIIasbest no.3:104-110 '62.   (MIRA 16:11)

POGADI, I. [Pohaďy, I.]

Methods and forms used in the administration of psychiatric services in the Czechoslovak SSR. Zhur. nevr. i psikh. 64 no.2:290-294 '64.
(MIRA 17:5)

1. Psikhiatricheskaya lechebnitsa v Pezinke (direktor I. Pogadi), Chekhoslovatskaya Sotsialisticheskaya Respublika.

ZEMAN, L.;JANIK, A.;POGADY, J.

Two year results of the treatment of alcoholism in Bratislava
region. Sloven. lekar. 13 no.8:333-336 Aug 1951.   (CLML 23:2)

1. Trencin.

GUENSBERGER, E.;POGADY, J.

New aspects in neurasthenia. Sloven. lekar 13 no. 11:495-503 Nov
1951.   (CIML 23:3)

POGADY, J.; JANIK, A.; ZEMAN, L.; ZIKMUND, V., Bratislava, KUNZ, Mickiewiczova 13

Contribution to the therapy of alcoholism with apomorphine. Lek. obzor 3 no.5:278-281 1954.

1. Z Psychiatrickej kliniky SU v Bratislave
      (ALCOHOLISM, therapy
         apomorphine)
      (APOMORPHINE, ther. use
         alcoholism)

Pogady, J.

Czechoslovakia/Pharmacology. Toxicology. Hormone Prepa-   U-6
          rations.

Abs Jour   : Ref Zhur-Biol., No 7, 1958, 33026

Author   : Pogady J.
Inst   : Not given
Title   : Maniacal Syndrome as a Complication in the The-
             rapy of Hemorrhagic Chronic Acute Ulcerated
             Colitis with Cortisone.

Orig Pub   : Bratisl. lekar. listy, 1957, 2, No 4, 224-227

Abstract   : No abstract.

Card 1/1

POGÁDY, J.

1699. CONTRIBUTION TO THE COMBINATION OF HYSTERIA WITH EPILEPSY
- Príspevok ku kombinácii hystérie s epilepsiou - Pogády J., Jäger
M. and Masárik J. Psychiat. Klin. Lek. Fak. Univ. Komenského,
Bratislava - BRATISLAVSKÉ LEKÁRS. LISTY 1957, 37/9 (528-534) Tables 1

On the basis of observations carried out on 25 patients with hysteric and epileptic
symptoms the existence of hystero-epilepsia as an independent nosological entity
is denied. Hysterical hyperventilation as well as other physiological or psychologi-
cal factors creating hysteric symptoms may influence the epileptogenic focus in
cases of latent epilepsias.   Skoda - Pezinok

EXCERPTA MEDICA Sec 8 Vol 12/7 Neurology   July 59

3398. SERUM PROTEIN FRACTIONS IN THE INSULIN THERAPY OF THE
MENTALLY SICK - Bielkovinové frakcie krvného séra pri liecbe dusevne
chorých inzulinom - Pogády J. and Molcan J. Psychiat. Klin. Lek.
Fak. UK, Bratislava - CSL. PSYCHIAT. 1958, 44/3 (154-158)

Neither during subcoma nor during coma, according to Himwich's classification,
were there any marked changes of the individual serum protein fractions. The
time course of the insulin hypoglycaemia provides more accurate information as
regards shifts of the protein fractions than evaluations based on clinical symptoms.
The α_1-fractions rise during the first hour after the administration of insulin and
decrease during the 4th hr. Five hr. after the administration of insulin the al-
bumins rise significantly and all globulin fractions decrease.

POGADY, J.; MOLCAN, J.

Serum protein fraction changes during insulin therapy of mental disorders. Cesk. psychiat. 54 no.3:154-158 June 58.

1. Psychiatricka klinika Lek. fak. UK v Bratislave.
        (SHOCK THERAPY, INSULIN, effects
            on blood protein fractions (Cz))
        (BLOOD PROTEINS, in various diseases
            ment. disord., eff. of insulin shock ther. on protein
            fractions (Cz))
        (MENTAL DISORDERS, therapy
            insulin shock ther., eff. on blood protein fractions (Cz))

POGADY, J.

Study of the effects of various pharmacological substances on model protrated insulin coma in rats. Cesk. psychiat. 54 no.5:285-291 Oct 58.

1. Psychiatricka klinika lek. fak UK v Bratislave.
         (HYPERINSULINISM, exper.
                eff. of various drugs on protracted coma in rat (Cz))

POGADY, J.

The utilisation of glucose in cases of insulin shock, and the
question of a model of prolonged coma. Rev.Czech.M. 6 no.2:
98-111 1960.

1. Department of Psychiatry, Faculty of Medicine, Komensky University,
Bratislava. Director: Prof. E. Guensberger, M.D.
        (HYPERINSULINISM exper)
        (GLUCOSE pharmacol)

POGADY, J.; MOLCAN, J.

Electrophoretic examination of proteins in the blood serum in
experimental protracted insulin coma in rats. Cesk.psychiat. 56
no.1:24-29 F '60.

1. Psychiatricka klinika lekarskej fakulty US v Bratislave.
          (HYPERINSULINISM exper.)
          (BLOOD PROTEINS)

DOBIAS, J.; VINAR, O.; POGADY, J.

Current status, objectives and role of mental hygiene. Activ. nerv. sup. 3 no.4:428-431 '61.

(MENTAL HYGIENE)

POGADY, J.; SLABEYCIUS, J.

Data on symptomatological treatment of some sexual neurotic disorders.
Cesk. psychiat. 57 no.6:379-382 '61.

1. Psychiatricka klinika Lek. fak. UK v Bratislave. I. Chirurgicka
klinika Lek. fak. UK v Bratislav.
(SEX DISORDERS)

POGADY, J.; GRIGELOVA, M.

The open door system in the psychiatric institution and ataractics.
Cesk. psychiat. 58 no.4:238-244 Ag '62.

1. Krajska psychiatricka liecebna v Pezinku.
        (HOSPITALS PSYCHIATRIC)   (PSYCHOPHARMACOLOGY)

POGADY,J.; HUDAKOVA,G.

Some liver function tests in mental diseases. Bratisl. lek.
listy 44 no.2:110-119 '64.

1. Krajska psychiatricka liecebna v Pezinku (riaditel: MUDr.
J. Pogady,C.Se.) a Ustav zdravotnickej statistiky v Bratislave
(riaditel: prom.ekonom S.Estok).

*

POGADY, J.; MAJEROVA, A.

Level of serum copper in mental patients in inhibitory states after insulin and in rats in model inhibitory states caused by insulin. Cesk. psychiat. 60 no.4:226-233 Ag '64.

1. Krajska psychiatricka liecebna v Pezinku a Ustav pre sudne lekarstvo Lekarskej fakulty University Komenskeho v Bratislave.

L 10832-66

ACC NR: AP6004562   SOURCE CODE: CZ/0083/65/000/003/0156/0163

AUTHOR: Pogady, J.--Pogady, I. (Pezinok); Hudakova, G.--Gudakova, G.   7.1

ORG: District Psychiatric Institute, Pezinok (Psychiatricka liecebna); Institute 13 of National Health Statistics, Bratislava (Ustav zdravotnickej statistiky)

TITLE: Chlorides in cerebrospinal fluid of patients suffering from psychiatric diseases

SOURCE: Ceskoslovenska psychiatrie, no. 3, 1965, 156-163

TOPIC TAGS: chloride, central nervous system, psychiatry, brain, psychoneurotic disorder, psychopathology

ABSTRACT: The content of chlorides in the cerebrospinal fluid of 2098 persons was evaluated statistically; of the total, 928 were mentally ill and 1170 suffered from inflammatory diseases of the brain. The content of chlorides in different forms of meningoencephalitis is significantly lower than in meningitis tuberculosa. Patients who suffer from neurotic depressive reactions and epilepsy had lower chloride values than those suffering from psychopathies, and incipient, latent and tardive forms of neurolues. People with psychoneurotic disturbances, hysterical reactions, endogenous psychoses, oligophrenias, and alcoholism had lower chloride values, between 720 - 740 mg%. No connection between the con-

Card 1/2

L 10832-66

ACC NR: AP6004562

tent of chlorides and total proteins could be found. Orig. art. has: 3 figures
and 2 tables. /JPRS/

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 003 / SOV REF: 001

Card 2/2

POGADY, J. SVORAD, D.

Models as a principle in psychotherapy. Cas. lek. Cesk. 104 no.47: 1296-1297 26 N '65.

1. Krajska psychiatricka liecebna, Pezinok (prednosta doc. MUDr. J. Pogady, CSc.) a Ustav experimentalnej mediciny Slovenskej akademie vied, Bratislava (prednosta akademik J. Antal).

PHYSIOLOGY

CZECHOSLOVAKIA

SVORAD, D.; POGADY, J.; Institute of Normal and Pathological
Physiology, Slovak Academy of Sciences (Ustav Normalnej a Pa-
tologickej Fyziologie SAV), Bratislava, Director (Riaditel) Mem-
ber of Academy J. ANTAL; Krajska Psychiatric Hospital (Psychiat-
ricka Liecebna), Pezinok, Director (Riaditel) Docent Dr J. POGADY.

"Sensory Deprivation and Some Problems of Clinical Psychiatry."

Abstract: Formation and restoration of conditioned reflexes after
an isolation depriving the animal of light, acoustic impulses, and
locomotor reduction and social isolation were investigated in rats.
Sensory deprivation and locomotor reduction have differing effects
on the processes of learning and memory; the first enhances it,
the second slows it down significantly. In sensory deprivation
there is a difference between an individual or a group exposure.
Importance of these facts in clinical psychiatry is discussed.
2 Figures, 1 Table, no references.
1/1

Biochemistry

CZECHOSLOVAKIA

POGADY, J.; DORNETZHUBER, V.; Kraj Psychiatric Hospital (Psychiatricka Liecebna), Pezinok, and Institute of Tuberculosis (Ustav Tuberkulozy), Bratislava.

"Histochemical Determination of Glycogen and Sulfhydryl Groups in Some Model Inhibitory Conditions."

Prague, Ceskoslovenska Psychiatrie, Vol 62, No 6, Dec 66, pp 369-373

Abstract [Authors' English summary modified]: Glycogen in the nervous cells is very stable; it is very difficult to induce changes in its retention by the action of drugs. Insulin coma is not caused by a lack of glycogen in brain tissue, but by other functional reasons. Sulfhydryl groups can serve as an indicator of respiration of brain tissue; they do not show any changes due to action of insulin. 2 Figures, 4 Western, 1 Czech, 3 Russian references. (Manuscript received 6 Jan 66).

1/1

L 43004-66

ACC NR: AP6031813   SOURCE CODE: CZ/0083/65/000/005/0289/0297

AUTHOR: Pogady, I.--Pogady, I.; Hudakova, G.--Gudakova, G.

ORG: [Pogady] District Psychiatric Hospital, Pezinek (Krajska psychiatricka liecebna);
[Hudakova] Institute for Medical Statistics, Bratislava (Ustav zdravotnickej statistiky)

TITLE: Reducing substances and total proteins in the cerebrospinal fluid of mental
patients

SOURCE: Ceskoslovenska psychiatrie, no. 5, 1965, 289-297

TOPIC TAGS: nervous system disease, protein, infective disease, psychoneurotic
disorder

ABSTRACT: Laboratory data on cerebrospinal fluid analysis in 2408 psychiatric
patients, including 1301 with infectious or inflammatory cerebrospinal diseases;
in the latter patients, both total reducing substances and total proteins were
markedly increased; in other psychiatric patients, it was less pronounced although
definitely present; the difference between inflammatory and mental cases was
significant statistically. Breakdown according to sex, diagnostic classes and
other factors. Orig. art. has: 3 figures and 3 tables. [Based on authors' Eng.
abst.] [JPRS: 33,500]

SUB CODE: 06 / SUBM DATE: none

Card 1/1 MLP

POGADY, J.; SVORAD, D.

Some methodological problems in psychiatry. Cas. lek. Cesk. 104
no.44:1221-1222 5 N '65.

1. Krajska psychiatricka liecebna, Pezinok (riaditel doc. MUDr.
J. Pogady, CSc.) a Ustav experimentalnej mediciny Slovenskej
akademie vied, Bratislava (prednosta akademik J. Antal).

POGADY, J.; HUDAKOVA, G.

Chlorides in the cerebrospinal fluid in psychiatric diseases.
Cesk. psychiat. 61 no.3:156-162 Je '65.

1. Krajska psychiatricka liecebna v Pezinku, Ustav zdravotnickej
statistiky v Bratislave.

POGADY, J.; HUDAKOVA, G.

Reducing substances and total proteins in the cerebrospinal
fluid in mental diseases. Cesk. psychiat. 61 no.5:289-297
O '65.

1. Krajska psychiatricka liecebna v Pezinku, Ustav zdravotnickej
statistiky v Bratislave.

POGADY, J.

Contribution to the problem of the effect of glucose on the model
of protracted insulin coma in rats. Cas. lek. cesk. 97 no.30:947-
949 18 July 58.

1. Psychiatricka klinika Lek. fak. UK v Bratislave, prednosta prof.
Dr. 3. Guensberger. J. P., Bratislava, psychiatricka klinika.
        (GLUCOSE, eff.
                on protracted insulin coma in rats (Cz))
        (SHOCK THERAPY, INSULIN, exper.
                eff. of glucose on protracted insulin coma in rats (Cz))

MATULAY, Karol; POGADY, Jozef

A contribution to the diagnosis of neurosyphilis with pallidum antigen in psychiatry. Cas.lek.cesk 100 no.38/39:1240-1244 29 S '61.

1. Neurologicke oddel. polikliniky v Bratislave, veduci prof. dr. K. Matulay, Krajska psychiatricka liecebna v Pezinku, prednosta MUDr. J. Pogady.

(NEUROSYPHILIS immunol)
(TREPONEMA PALLIDUM immunol)

POGADAYEVA, S., arkhitektor

Illumination after dark. Na stroi.Ros. 3 no.9:23-24 S '62.
(MIRA 15:12)

(Omsk--Lighting)

GUMINSKA, Barbara; KORNAS, Jan; DYAKOWSKA,J.; KROTOSKA, T; POGAN,E.

Survey of books and articles. Wiadom botan 7 no.3/4:248-254
'63.

POGAN, Eugenia

Problems of karyological anatomy. Wiadom botan 8 no.1:27-40   '64.

1. Department of Plant Anatomy and Cytology, Jagiellonian University, Krakow.

POGAN, Zygmont; MILOS, Stefan

Conditions for preparing rolled wires by the Proverzi method in the Skawina Aluminum Plant. Koh lap 96 no.11:511-514 N'63.

1. Femipari Kutato Intezet, Skawina.

MIŁOS, Stefan, mgr inż.; POGAN, Zygmunt, mgr inż.

Experiments in production of aluminum wire by the Properzi
method. Rudy i metale 9 no. 1: 26-31 Ja '64.

POGANETS, V.I.; KOVAL'CHUK, P.S.

Combined performance of electric desalters and pressure vacuum installation units. Neftianik 5 no.6:16-17 Je '60.
(MIRA 13:7)

1. L'vovskiy oblastnoy sovet Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov.
(Oil refineries—Equipment and supplies)

GLIGORE, V., prof.; LUCACIU, O., dr.; In colaborare cu: HOLAN, T., conf.;
    BRIFF, Gh., dr.; POCANGEANU, P.

Contribution to the study of capillary permeability in
diabetes mellitus. (Preliminary note; presentation of a method).
Med. intern. (Bucur) 16 no.9:1075-1078 S '64.

1. Lucrare efectuata in Clinica a II-a medicala, Cluj (prof.
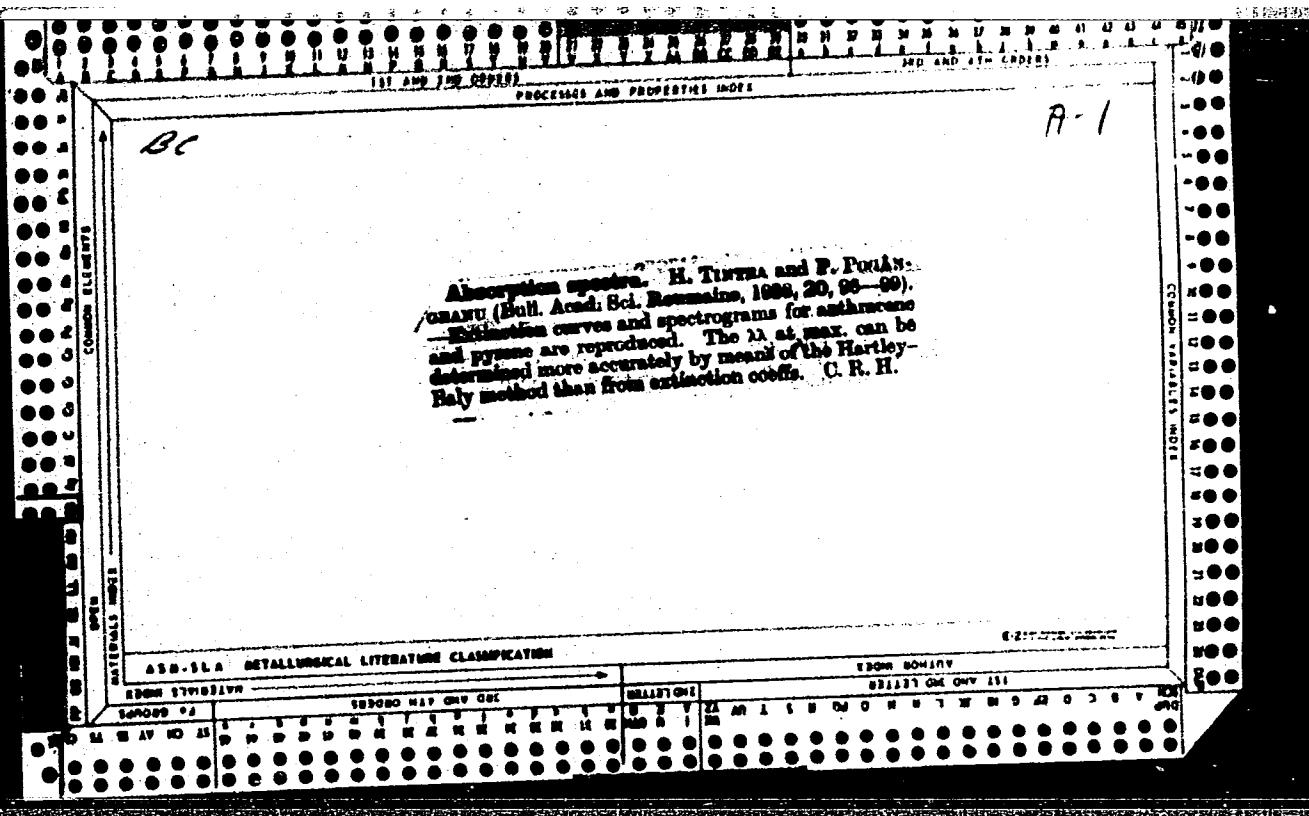V. Gligore) in institutul de medicina nucleara, Cluj (conf.
T. Holan).

Methods of obtaining absorption spectra. (Preliminary note.) P. Pogăngeanu and H. Tintea. *Bull. sci. acad. roumaine* 20, No. 1-3, 46-7(1938).—With a Baly tube to vary the thickness and 0.0001, 0.00001, and 0.000001 N solns. in heptane, with a quartz spectrograph and an Al spark under water as source, the following peaks of absorption bands were detd. by the Hartley-Baly method and the plates studied with a microscope and enlarged projection: *pyrene* 3831, 3778, 3710, 3650, 3620, 3572, 3510, 3441, 3340, 3301, 3101, 3136, 3056, 2930, 2731, 2900, 2622, 2513, 2408 A.; *anthracene* 3958, 3774, 3701, 3596, 3516, 3394, 3348, 3236, 3198, 3090, 2985, 2520 A.; *9,10-dichloroanthracene* 4020, 3957, 3801, 3750, 3807, 3658, 3428, 3263, 3117, 2508, 2512 A.; *9,10-dibromoanthracene* 4032, 3810, 3614, 3430, 3272, 3131, 2600, 2507 A. H. Tintea and P. Pogăngeanu. *Ibid.* No. 4-5, 96-9.—The extinction curves of anthracene (I) and pyrene (II) obtained with a Loewe-Scheibe spectrophotometer by use of a condensed spark between W electrodes are given. The wave lengths of the max. are: I, 3760, 3760, 3570, 3516, 3394, 3350, 3238, 3185, 3100 A.; II, 3720, 3658, 3620, 3576, 3516, 3445, 3352, 3300, 3194, 3135, 3080, 2940, 2730, 2622, 2624, 2520 A. Fewer bands are detected and the max. are displaced toward the visible from the max. obtained by the Hartley-Baly method. The Hartley spectrograms are reproduced. The Hartley-Baly method appears to be more precise (error ± 1 A. for λ < 3000 A., ± 2 A. for λ > 3000 A.) than the Scheibe method (± 3 A. and 5 A., resp.) in detg. the position of the band. It is less laborious and shows more bands.
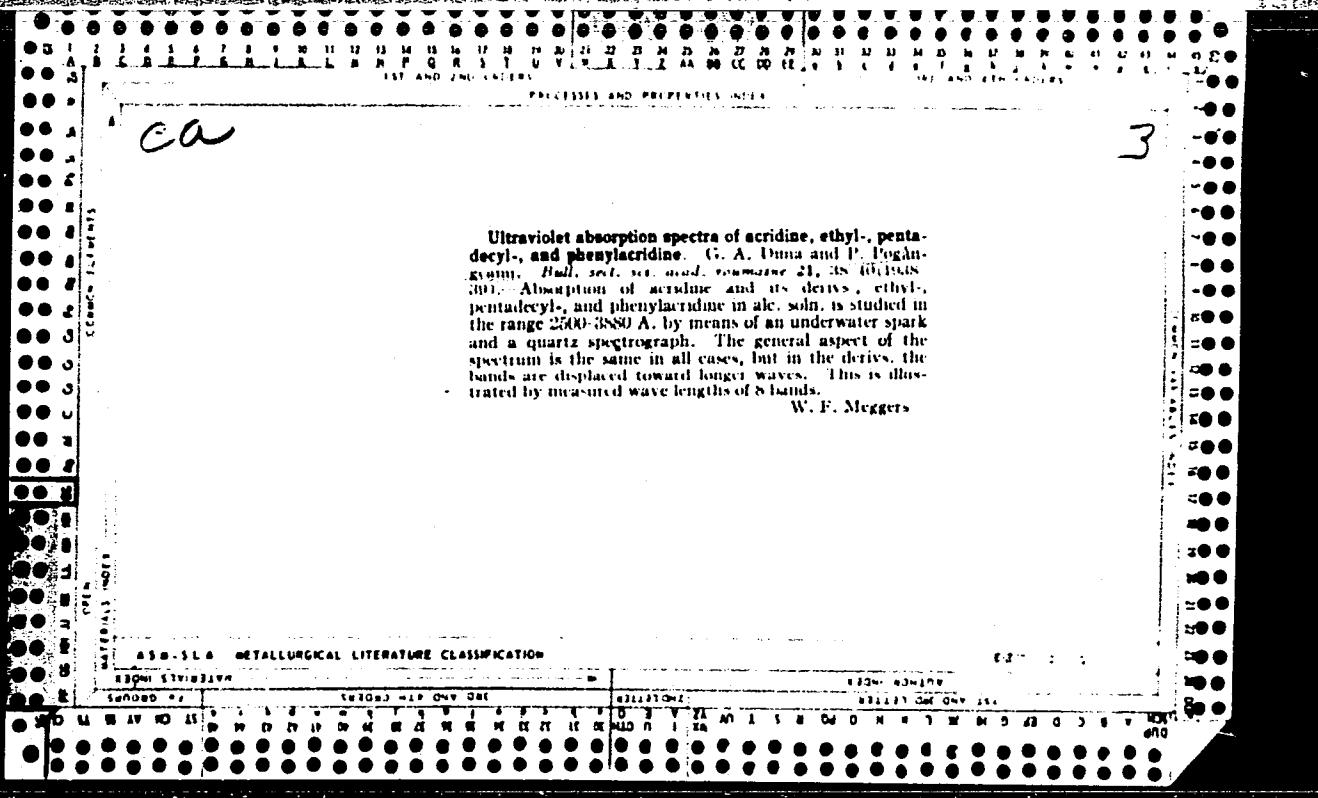
Janet E. Austin

Absorption spectra by the Hartley-Baly method of several hydrocarbons of condensed benzene nuclei: anthracene, pyrene, naphthacene, perylene. P. Poenaru (Bull. Acad. Sci. Roumaine, 1938, 20, 24—28).—The absorption spectra of anthracene, pyrene, and naphthacene in EtOH solution, and perylene (I) in both EtOH and n-C$_7$H$_{16}$ solution, have been examined from 6000 to 2100 A. For each substance 4 concns. (10^{-3}, 10^{-4}, 10^{-5}, and 10^{-6}N.) and 15 thicknesses (between 10 and 100 mm.) were used. The absorption curves and the $\lambda\lambda$ of the absorption max. are given. The spectra of (I) in EtOH and n-C$_7$H$_{16}$ are similar but the absorption max. are displaced to longer $\lambda\lambda$ in the latter solvent.   W. R. A.

BC

A-1

Absorption spectra. H. TURRRA and P. PODÁN: ORANU (Bull. Acad. Sci. Roumaine, 1939, 20, 96—99).—Extinction curves and spectrograms for anthracene and pyrene are reproduced. The λλ at max. can be determined more accurately by means of the Hartley-Baly method than from extinction coeffs. C. R. H.

METALLURGICAL LITERATURE CLASSIFICATION

ca

3

Ultraviolet absorption spectra of acridine, ethyl-, penta-decyl-, and phenylacridine. G. A. Dima and P. Pogân-gsanu. *Bull. sci. sci. acad. roumaine* 21, 38 (1938) (in Fr.). Absorption of acridine and its derivs., ethyl-, pentadecyl-, and phenylacridine in alc. soln. is studied in the range 2600-3880 A. by means of an underwater spark and a quartz spectrograph. The general aspect of the spectrum is the same in all cases, but in the derivs. the bands are displaced toward longer waves. This is illustrated by measured wave lengths of 8 bands.
                                                          W. F. Meggers

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

BC

17.1

PROCESSES AND PROPERTIES INDEX

Methods of obtaining absorption spectra. P. POGLORANU and H. TUTRA (Bull. Acad. Sci. Roumaine, 1939, 20, 46—47).—Extinction coeff. determinations are unnecessary for most chemical purposes, as measurement of the λλ of the absorption max. by the Hartley-Baily method is adequate. Data obtained by this method (2100—6000 A.) are recorded for pyrene, anthracene, and 9:10-dichloro- and -dibromo-anthracene.

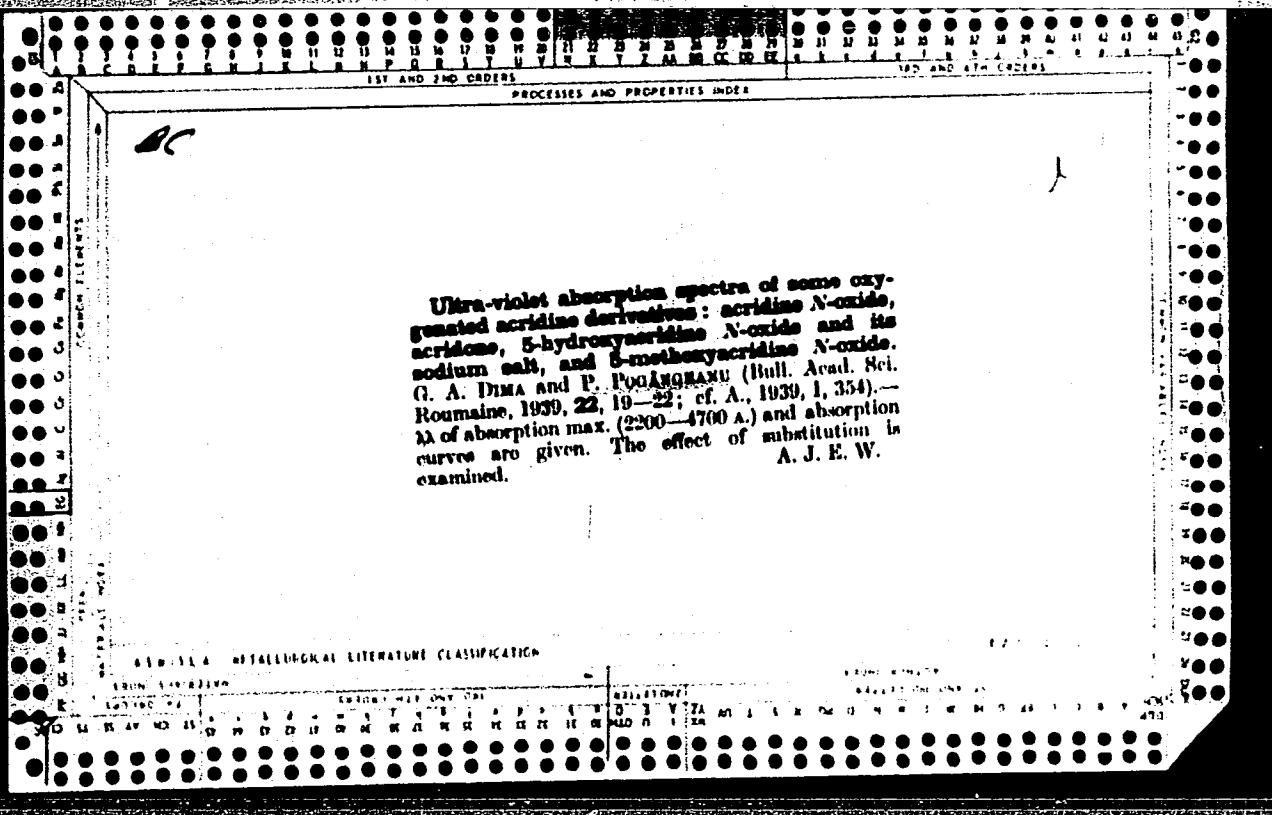A. J. E. W.

METALLURGICAL LITERATURE CLASSIFICATION

BC

H-1

Ultra-violet absorption spectra of acridine, ethyl-, pentadecyl-, and phenyl-acridine. G. A. DIMA and P. POGANGEANU (Bull. Acad. Sci. Roumaine, 1939, 21, 36—40).—Data are recorded for solutions in EtOH between 3600—2800 A.   L. J. T.

PROCESSES AND PROPERTIES INDEX

Ultra-violet absorption spectra of some oxygenated acridine derivatives: acridine N-oxide, acridone, 5-hydroxyacridine N-oxide and its sodium salt, and 5-methoxyacridine N-oxide. G. A. DIMA and P. POGANEANU (Bull. Acad. Sci. Roumaine, 1939, 22, 19—22; cf. A., 1939, I, 354).— λλ of absorption max. (2200—4700 A.) and absorption curves are given. The effect of substitution is examined.

A. J. E. W.

The fluorescence spectrum of benzene, naphthalene and chrysene at −180° under monochromatic excitation. P. Pogány et al. Bull. sci. acad. roum. 24, 634-47 (1942); Chem. Zentr. 1943, II, 1701; cf. C. A. 37, 3342. Cells was excited with λ = 2800.52 Å. In the fluorescence there are 3 periodicities with frequencies of 1081, 384 and 146 cm⁻¹. The spectrum may be represented by the formula: ν(cm.⁻¹) = 37,201 − 991 n − 384 p + 116 q. The results are set forth in tables and curves. For naphthalene (II) the formula for the spectrum is: ν(cm.⁻¹) = 32,572 − 1360 n − 420 p + 195 q for the soln. in hexane; for pure II it is ν(cm.⁻¹) = 32,331 − 1360 n − 420 p. The fluorescence spectra of II in hexane, heptane, C₆H₆, EtOH, paraffin show a marked displacement (250 cm.⁻¹) toward the short wave lengths with a diminution of intensity and a doubling of the bands of the group. The bands A, B, C, D, E retain their intensity while the bands p − 1 and p − 2 of each group sep. into 2 bands, among which the energy is divided. The interval between the split bands averages 250 cm.⁻¹. The spectrum of solid chrysene contains band heads sepd. by 1360 cm.⁻¹. The distribution of the bands is given by the equation: ν(cm.⁻¹ = 27,580 − 1360 n − 290 p. The fluorescence bands of the substances investigated which are broad at room temp. are narrow at low temp. As the mol. becomes heavier the fluorescence spectrum is displaced toward the visible. Solvent displaces the fluorescence spectrum toward smaller wave lengths. The distribution of energy in the fluorescence spectrum is a function of the temp. and solvent and is independent of the wave length of the exciting light. The intensity of the fluorescence decreases from the smaller toward the longer waves.   A. P. Sachs