

SZABO M.

SUMMARY

JUDASZ RABY, Sandor, SZENTIVANZI, Molyse, SZABO Miklos, and VAMOSI, Rezső, of the Institute for Physiology at the Medical University (Orvostudományi Egyetem Széchenyi Intézet) in Debrecen.

"Coronary Circulation of the Tortoise Heart"

Abstract, Acta Physiologica Academiae Scientiarum Hungaricae, Vol 23, No 1, 1966, pp. 33-46.

Abstract: [English article; authors' English summary] The coronary circulation of the tortoise (*Testudo orbicularis*) has been studied in isolated hearts perfused with Ringer's solution. Adrenalin injected into the coronaries gave rise to marked and lasting vasoconstriction, as opposed to the increase in coronary flow observed in mammalian hearts. Acevylcholine, injected into the coronaries caused vasodilatation. Changes in cardiac frequency or in the work of the ventricle, as well as a high temperature, did not influence the coronary blood flow. No coronary dilatation was caused by hypoxia resulting from

BURNOCZKY, Lajos; SZABO, Miklos

Measuring the viscosity of melts. Koh lap 93 no.5:222-225 My '60.

RUSZNAK, Istvan, dr., Kossuth-dijas, a kemiai tudományok kandidátusa;
SZABO, Miklos; GAL, Janos; SARMANY, Jozsef; BOZSO, Ivan

Factory experiences with the thermotex process. Magy textil 14 no.10:
433-436 0 '62.

1. Textilipari Kutató Intézet (for Rusznak, Szabo, Sarmany, Bozso).
2. Kíspesti Textilgyár (for Gal).

DAROCZY, Pal, dr.; SZABO, Miklos, dr.; BURIS, Laszlo, dr.

Rheopyrine dragee causing lethal Lyell's syndrome. Orv. hetil.
L06 no.14:647-649 4 Ap '65

1. Debreceni Orvostudományi Egyetem, Bor- és Nemikortani Klinika
(igazgató: Szederay, Lajos, dr.) és Igazságügyi Orvostani Intézet
(igazgató: Nagy, János, dr.).

SZABO, M. T.

TAKACS, L.; KOVACH, A.G.B.; TAKACS-NAGY, L.; SZABO, M.T.

Histological and metabolic regeneration of the musculature in shock.
Acta physiol. hung. Suppl. no.6:24-25 1954.

1. III. Medizinische Klinik, Physiologisches Institut, III.
Chirurgische Klinik und Chemisches Institute der Medizinischen
Universität, Budapest.

(SHOCK, exper.
eff. on musc. metab. & histol.)

(MUSCLES, metab.
in exper. shock, histol.)

TAKACS, Lajos, az orvostudományok kandidátusa; SZABO, Maria, ^{7,}Technikai munkatárs;
HORVAT, Vera; TATAR, Erika _^

Comparative studies on the glycogen content and hydrolytic glycogen degradation in striated muscles, heart and uterus in hypoxic states (shock, exsiccosis, arterial hypoxia). Magy. Tudom. Akad. Biol. Orv. Oszt. Kozl. 8 no.4:353-363 1957.

1. A Budapesti Orvostudományi Egyetem III. sz. Belklinikája és Orvosvegytani Intézete.

(GLYCOGEN, metab.

eff. of arterial hypoxia, dehydration & shock on content & hydrolysis in striated musc., heart & uterus of exper. animals (Hun))

(MUSCLES, metab.

glycogen, eff. of arterial hypoxia, dehydration & shock on content & hydrolysis in exper. animals (Hun))

(MYOCARDIUM, metab.

same)

(UTERUS, metab.

same)

(ANOXIA, exper.

eff. of arterial hypoxia on glycogen content & hydrolysis in striated musc., heart & uterus of exper. animals (Hun))

TAKACS, L.; SZABO, M.T.

Comparative studies on striated muscle, heart and uterus in hypoxic states (shock, dehydration, arterial hypoxia) with regard to ATP and glycogen breakdown. (Continued) Card 2.

(SHOCK, eff.

same)

(ADENYLPHOSPHATE, metab.

myocardium, striated musc. & uterus of rats, eff. of arterial anoxia. dehydration & shock)

(GLYCOGEN, metab.

same)

GARZO, T.; PERL, K.; SZABO, M. T.; ULLMANN, A.; STRAUB, F. B.

Incorporation of radioactive amino acids and amylase synthesis in pancreatic tissue in vitro. Acta physiol. hung. 11 no.1:23-29 1957.

1. Chemisches Institut der Medizinischen Universität, Budapest.

(PANCREAS, metab.

amylase biosynthesis, utilization of glycine & tyrosine in tissue slices (Ger))

(AMYLASES

in pancreas, biosynthesis & incorporation of glycine & tyrosine in tissue slices (Ger))

(GLYCINE, metab.

pancreas, incorporation in amylase synthesis in tissue slices (Ger))

(TYROSINE, metab.

same)

5-2 HBO, 11/1

TAKACS, L.; SZABO, M.T.

Comparative studies on striated muscle, heart and uterus in hypoxic states (shock, dehydration, arterial hypoxia) with regard to ATP and glycogen content and hydrolytic glycogen breakdown. Acta med. hung. 11 no.1:31-44 1957.

1. With the technical assistance of V. Horvath and E. Tatar, 3rd Department of Medicine and Institute of Medical Chemistry, Medical University, Budapest.

(MYOCARDIUM, metab.

eff. of arterial anoxia, dehydration & shock on adenylypyrophosphate & glycogen metab. in rats.)

(UTERUS, metab.

same)

(MUSCLES, metab.

eff. of arterial anoxia, dehydration & shock on adenylypyrophosphate & glycogen metab. in striated musc. of rats.)

(ANOXIA, eff.

arterial anoxia on adenylypyrophosphate & glycogen metab. in myocardium, striated musc. & uterus of rats.)

(DEHYDRATION, eff.

on adenylypyrophosphate & glycogen metab. in myocardium, striated musc. & uterus of rats.)

~~(continued on next page)~~

-SZABO, M.T.

✓ Mechanism of metabolic changes in muscle during shock. A study of dehydration and arterial hypoxia. L. Takács and M.T. Szabó (Univ. Med. School, Budapest) *Acta Physiol. Acad. Sci. Hung.* 11, 67-73 (1957) (in English).— In the skeletal muscle of the dehydrated cat the glycogen content decreases while the adenosinetriphosphate (ATP) level, the phospholytic and the hydrolytic breakdown of glycogen remain unchanged. In rats with arterial hypoxia induced by exposure to 8-10% O₂-N₂ atm. the ATP and glycogen levels decrease in the skeletal muscle while the phospholytic and hydrolytic breakdown of glycogen remains unchanged. The diminution of phosphorylase and hexokinase activity occurring during shock and the increase of hydrolytic breakdown of glycogen cannot be explained by impaired circulation or hypoxia. J. C. Elmer

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SZABO, F.B.

GARZO, T.; SZABO, M.T.; STRAUB, F.B.

Incorporation of glycine- l -G¹⁴ into the amylase of pancreas tissue slices. Acta physiol. hung. 12 no.4:299-302 1957.

1. Institute of Medical Chemistry, Medical University Budapest, Hungary.
 - (GLYCINE, metab. pancreas, incorporation into amylase in pigeon tissue slices.)
 - (PANCREAS, metab. amylase, incorporation of glycine in pigeon tissue slices.)
 - (AMYLASES in pancreas, incorporation of glycine in pigeon tissue slices.)

SZABO, M.T.; GARZO, T.

Incorporation of glycine-1-C¹⁴ into the subcellular fractions and their isolated amylase of pigeon pancreas slices. Acta physiol. hung. 12 no.4: 303-310 1957.

1. Institute of Medical Chemistry, Medical University, Budapest.

(GLYCINE, metab.

pancreas subcellular fractions, incorporation into amylase in pigeon tissue slices.)

(PANCREAS, metab.

amylase in subcellular fractions, incorporation of glycine in pigeon tissue slices.)

(AMYLASES

in pancreas subcellular fractions, incorporation of glycine in pigeon tissue slices.)

GARZO, T.; SZABO, Maria T.; STRAUB, F.B.

Amino acid incorporation in pigeon pancreas and in pigeon pancreas
amylase in the presence of various inhibitors. Acta physiol.hung.
17 no.2:213-223 '60.

1. Institute of Medical Chemistry, Medical University, Budapest.
(AMINO ACIDS metab.)
(PANCREAS metab.)
(AMYLASES metab.)

SZABO, N.

SABO, N.; BERATLIEF, M.; SOLOMON, O.

Foams on the basis of polystyrene. p. 393.

REVISTA DE CHIMIE. (Ministerul Industriei Petrolului si Chimiei si
Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania) Bucuresti.
Romania. Vol. 10, no. 7, July 1959.

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

Uncl.

HUNGARY/Radio Physics - Generation and Conversion of Radio Fre- I-3
quency Oscillations.

Abs Jour : Rof Zhur - Fizika, No 12, 1958, No 23152

Author : Szabo Mandor

Inst : Not Given

Title : Multivibrator with Two Stable Equilibrium States and a Short
Operating Time.

Orig Pub : Magyar tud. akad. Korp. fiz. kutato int. kozl., 1957, 5,
No 4, 442-444

Abstract : No abstract

Card : 1/1

49

Applied Mechanics Rev.
Jan 1954
Mechanics of Solids

122. Szabó, O., Influence of the microstructure of plain carbon steels on their deformation characteristics (in German). *Acta Techn. Hung.* 6, 8-4, 351-386, 1953.

The distribution of elongation and reduction of cross-sectional area in tensile specimens of mild steel is determined from photographs of specimens 10 mm in diameter provided with transverse marks 5 mm apart. The measurements show that lateral contraction continues outside the necked-down portion even after the maximum load has been reached and necking has started. On the basis of these measurements, the author proposes $\tan \gamma = (\sigma_0 - \sigma_p) / \psi$ as an index of strain-hardening where σ_0 is the stress at rupture based on the minimum section, at the bottom of the neck, σ_p is the yield strength corresponding to the beginning of permanent set, and ψ is the reduction in cross-sectional area at failure. The variation of tensile strength, of ψ , and of $\tan \gamma$ is next plotted as a function of carbon content ranging from 0.1 to 0.9% for twenty different plain carbon steels, with a variety of microstructures corresponding to the condition as received, and

to three different types of heat treatment. The plots bring out the effects of type of carbide, and of pearlite structures on the strength and strain-hardening properties of the steels.
W. Ramberg, USA

SZABO, O.

O. Szabó :

Practical metallography in the iron and steel industry — A vas- és acélipar gyakorlati metallográfiája
Budapest, 1954. Nehézip. Kiadó, 288 p., Ft 39.—

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SZAEQ, C.

SZAFQ, C. Investigation of metals by means of the electron microscope. p. 204.

Vol. 7, No. 6, June 1955.

GEP.

TECHNOLOGY

Budapest, Hungary

So: East European Accession, Vol. 5, No. 5, May 1956

SZABO. CDON

HUNG. / 11850* Martensite Tempering of Tool Steels. Szerszámacélok
martempeálása. (Hungarian.) *Odessa Szabó, Kohászati Lapok,*
v. 10, no. 6, June 1955, p. 282-273.
Experiments for evolving method of tool steel tempering in a
salt bath, for decreasing rejects caused by deformation and
quenching cracks. Tables, graphs, diagram, micrographs.

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L 01251-67 T JWD/WE/JW/WW

ACC NR: AT6035619

SOURCE CODE: HU/2502/66/047/004/0385/0390

NEMETH, Andras, and SZALAY, Otto, Hungarian Oil and Gas Research Institute,
Veszprem [Original-language version not given].

"New Method for the Quantitative Analysis of Combustion Processes with
Toepler's Parallel Beam Schlieren Apparatus"

Budapest, Acta Chimica Academiae Scientiarum Hungaricae, Vol 47, No 4, 1966;
pp 385-390.

Abstract [Author's English summary, modified; article in English]: A method
is described for the quantitative study of combustion processes, which is
based on intensity measurements by densitometry. In this method the values
of the blackening obtained by means of Toepler's schlieren apparatus are
compared with a measured reference series of blackenings. The applicability
of the method is demonstrated by an example. Orig. art. has: 5 figures and 4
formulas. [JPRS: 36,862]

TOPIC TAGS: combustion mechanism, quantitative analysis

SUB CODE: 21,07 / SUBM DATE: 09 Apr 65/ OTH REF: 005

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Card 1/1

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Szabo, P.

60. The innovation movement in the building joiners' trade -- Az epuletasz-talosipar ujitasi mozgalma -- by P. Szabo. (Wood industry -- Faipar -- Vol. 1, No. 5, pp. 156--157, May 1951, 2 Figs., 2 tabs.)

Carpenters have in the past also taken part in the innovation movement, however, their successes cannot be properly evaluated since the data covering their activities are listed together with those of the building trades, the latter being the higher organization, of the building joiners' trade. The innovation executives directed the attention of the workers in this trade to the material savings movement and the workers achieved outstanding results in honour of the Party Congress. Two of their innovations are described in detail, both dealing with the replacement of the expensive bolts used with Teschauer-type windows. One innovation proposes a catch which fits into the oblique groove of a 9 mm dia stud with a rounded-off end mounted on the outer window frame, thereby connecting the inner and outer frames. The other innovation is an automatic connection between the inner and outer frames of Teschauer-type windows, consisting of a spring catch which fastens or disconnects the frames by a single movement.

SERBO, P.

"Accelerating the Processing Time in the Lumber Industry", P. 183, (FAIPAR, Vol. 4, No. 6, June 1954, Budapest, Hungary)

CC: Monthly List of East European Accessions (EMAL), IC, Vol. 4, No. 3, March 1955, Uncl.

SZABO, P.; KREN, E.; GORDON, J.

High intensity neutron diffractometer. Acta phys Hung 15 no.3:
203-213 '63.

1. Department of Solid Physics, Central Research Institute of
Physics, Budapest. Presented by L. Pal.

CODING INFORMATION

677.21 (2).004.61

100. The struggle to overcome breakage of warps and other practical tasks in cotton mills, by P. Szabo. (Magyar Textiltechnika" — Hungarian Textile Technics — Vol. II, No. 3, pp. 10—12, Sept., 1949)

The frequency figures of warp breakage obtained by the prevailing system of supervision in the cotton weaving industry does not give accurate results since they refer only to a part and not to the whole warp. The frequency varies according to the humidity in the atmosphere, therefore, the beginning differs from the end. A new method is proposed to extend the observation and completion of the figures to the whole warp and to entire working units of the plant by relating the average figure to 10,000 shots. It is advisable to introduce the use of precoloured blinking threads in order to facilitate the counting of breakages in the loom as it flows from the loom. Of course, this method is not applicable in the weaving of coloured goods. T figures collected should be classified according to the source of breakage, namely to shortcomings arising in the spinning shop, in the preparation shop, in warp beaming and faults of unknown origin.

The main problems in cotton milling are grouped and characterized as follows: a) to find through experiments a suitable twist for yarn, b) specification of sizing prescriptions, c) specification of beaming methods, d) the most appropriate E. P. m. of the beams, e) the elimination of harmful effects of fluff in the preparation room, f) new methods of work, furthering the training of experts, and g) appropriate methods of materials handling.

ASS. SLA METALLURGICAL LITERATURE CLASSIFICATION

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SZABO, P.

~~M. Horbely and P. Szabó~~
~~Nomographs in the textile industry - Textil-~~
~~ipari számológépek~~
Budapest, 1954, Kézműip. Kiadó, 6 p. Ft. 40.-

Szabo, P.

S. Gönci and P. Szabó:
Handbook on cotton weaving - *A pamutszövés*
kézikönyve
Budapest, 1954. Könyvtip. Kiadó, 312 p., Ft 50.-

SZABO, P.

Technical periodical published by the Hungarian Cotton Mill. p.40.
MAGYAR TEXTILTECHNIKA. (Textilipari Muszaki es Tudomanyos Egyesulet) Budapest.
no. 1, Jan 1956.

SOURCE: EEAL, Vol 5, no. 7, July 1956.

SZABO, P.

New-type Italian power loom. P. 116 MAGYAR TEXTILECHNIKA
Budapest, No. 3, Mar. 1956

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, no. 8, August 1956

SZABO, Pal

Application of neutron diffraction in the fine structural research of the matter. II. (To be contd.). Fiz szemle 9 no.2:58-62 F '59.

1. Kozponti Fizikai Kutato Intezet Neutronfizikai Osztalya.

SZABO, Pal

Application of neutron-diffraction in the fine structural research of the matter. III. Fiz szemle 9 no; 3:85-88 Mr '59.

1. Kozponti Fizikai Kutato Intezet Neutronfizikai Osztaly.

KREN, Emil; PAROCZI, Gyula; SZABO, Pal

Examination of α' FeRH alloys by means of X-ray and neutron
diffraction. Koz fiz kozl MTA 12 no.1:17-23 '64.

SZABO, Pal

Accuracy and optimum time for measuring diffraction intensities.
Koz. fiz. kozl MTA 12 no.4:257-261 '64.

1. Central Research Institute of Physics, Hungarian Academy
of Sciences, Budapest.

SZABO, Pal, dr.

Chemotherapy of fistulas in osteoarticular tuberculosis.
Orv. hetil. 97 no.33:918-923 12 Aug 56.

1. A Vasmegyei Tanacs, Markusovszky Korhaza Szombethely
(igazgato-foorvos: Szvobada, Jeno, dr.) Orthopediai Osztalyanak
(foorvos: Szabo, Pal, dr.) kozlemenye.
(TUBERCULOSIS, OSTEOARTICULAR, fistula
chemother. (Hun))

SZABO, Pal

ACZEL, Gyorgy

HUNGARY

MD

Institute of Child Neurology under the auspices
of the Executive Committee of the Gyor-Sopron Megye
Council (Gyor-Sopron Megyei Tanacs V.B. Gyermekek
Ideggyondozo Intezete) Head: Gyorgy ACZEL, MD, chief-
physician.

Budapest, Gyermekegyogyaszat, No 8, Aug 62, pp 235-242.

"The Significance of the Early Recognition of Retardation
in the Further Development of the Child. (Examination of
pre-school children from the point of view of maturity.)"

Co-author:

SZABO, Pal, Apaczai Csere Janos Graduate School of
Education (Acting Director: Jozsef CSOKNYAI), Gyor
(Apaczai Csere Janos Felfoku Tanitokepzo Intezet)

SZABO, Pal

The 4th National Conference on the Technical Problems of the Food Industry. Konzerv paprikz no.4:105-108 JI-Ag (62.

KARACSONY, Dezso; SZABO, Pal; LASZTITY, Radomir

Experiments on the quick ripening of mustard. Konzerv paprika
no.2:46-50 Mr-Ap '63.

1. Budapesti Konzervgyar; Muszaki Egyetem Elelmiszerkemiai.
Tanszek.

HUNGARY / Chemical Technology. Chemical Products
and Their Applications. Chemical Process-
ing of Natural Gases and Petroleum. Motor
and Rocket Fuel Lubricants. H-20

Abs Jour: Ref Zhur-Khimiya, No 3, 1959, 9787.

Author : Zemplen, M., Szabo, P.

Inst : Not given.

Title : Determining the Viscosity of Bitumens.

Orig Pub: Magyar fiz. folyoirat, 1957, 5, No 4, 325-341.

Abstract: An instrument is described for determining absolute viscosity (η) of bitumens at relatively low temperatures (300) by a capillary pressure method (20 kg/cm²). The order of η magnitudes of bitumens obtained by this instrument coincides well with the literature data. A study was made

Card 1/2

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SZABO, P.

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4E32
Single investigation of water permeability of bitumens.
P. Szabo (Univ. Budapest). *Kolloid Z.* 155, 132(1957).—A
bitumen-covered fabric packet filled with H₂O is weighed
for loss of H₂O (1.5117 g. in 309 days). The relation $m =$
 $Pq(\Delta p/d)t$ exists, where m is H₂O loss, t is time, q is bitumina
surface, d is thickness of the layer, Δp is the pressure differ-
ential inside and outside of pocket, and P is the water-
permeability const., which is characteristic for each system.
E. Hirschhorn—
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SZABO, P.

SCIENCE

Periodicals MAGYAR FIZIKAI FOLYOIRAT Vol 6, no. 5, 1958.

SZABO, P. A simple experiment on the water permeability of blumen. p. 477.

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

P. SZABO

Determination of the viscosity of solid paraffin. P. Szabó (Univ. Budapest, Hung.). *Kolloid-Z.* 163, 141-3 (1939). — The viscosity (η) of paraffin, m. 54–56°, was detd. at 20.4–48.6°, by pressing it through a capillary at const. temp. and pressure differential of 20 kiloponds/sq. cm. $\eta = \pi r^4 t / 8 l Q$, where r is the capillary radius, l is its length, η is the sp. gr., Q is the wt. of the paraffin pressed through the capillary at time t . The sp. gr. was 0.8885 ponds/cc. Viscosity values ranged from 3.7×10^2 to 3.4×10^4 poises. B. Hirschhorn.

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423

MARKO, Laszlo; SZABO, Pal

Stability and decomposition of cobalt carbonyls. III. Removal of cobalt from the reaction products containing cobalt carbonyls during the direct alcohol synthesis by means of heat decomposition. *Kem tud kozl MTA 13 no.2:163-172 '60.* (EEAI 9:8)

1. Magyar Asvanyolaj es Foldgaz Kiserleti Intezet, Budapest-Veszprem.

(Cobalt carbonyls) (Alcohols) (Cobalt)

SZABO, Pal

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SZABO, Pal

Designing pulse counters. *Mérés automat* 12 no.10:321-324 '61.

1. Central Research Institute of Physics, Hungarian Academy
of Sciences, Budapest.

SZABO, P. : SCHAY, G.

Some remarks on a method suggested by Brill and Pelzer to
Determine the dimensions of crystallite. In German. p. 199
Vol. 5, no. 2, 1955

SOURCE: Monthly list of East European Accession (EEAL) LC Vol.
5, no. 3, March 1956

Szabo, P.

COUNTRY : Hungary B+5
CATEGORY :
ABS. JOUR. : RZKhim., No. 14 1959, No. 48598
AUTHOR : Szabo, P.
INST. : Hungarian Academy of Sciences
TITLE : The Calculation of the Intensity of Neutrons Scattered at Low Angles
ORIG. PUB. : Magyar Tud Akad Koezp Fiz Kutato int Koezl, 6, No 3, 147-158, IV-V (1958)
ABSTRACT : Starting from the law for x-ray scattering by polycrystalline objects, the author has proposed a method for the calculation of the scattering intensities of neutrons at low angles. The author notes that the proposed method gives a more accurate picture of the type and degree of order present and can be used in the experimental determination of order in and the size of crystallites.

A. Loshmanov

CARD: 1/1

SZABO, P.

340/60.

630.125.5.074.88

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On the effect of total reflection on the optimum dimensions of collimators for neutron crystal spectrometers and diffractometers. P. Szabo. *Magyar Tudományok Akadémiájának Központi Fizikai Kutató Intézetének Közleményei (Proceedings of the Central Research Institute for Physics of the Hungarian Academy of Sciences)*, Vol. 7, 1959, No. 4, pp. 237-262, 2 figs.

PK

In developing the studies published in a previous paper, the effect of the total reflection developing on the walls of primary collimators used in neutron diffractometers and crystal spectrometers on the optimum dimensions of such collimators is examined. The formulas for computing the intensity transmitted by a single total reflection are given. It is shown that as to the intensity thus transmitted (similarly to the case of direct transmission), there is an optimum in the dimensions of the collimator which, in cases of practical interest, is found to be the same as that determined for direct transmission.

SZABO, P.

476/80.

002.00.017 : 548.73

On the possibility of determining structural disorder in fine crystalline carbons. P. Szabó. *A Magyar Tudományos Akadémia Központi Fizikai Kutató Intézetének Közleményei* (Proceedings of the Central Research Institute for Physics of the Hungarian Academy of Sciences), Vol. 7, 1959, No. 5, pp. 299-301.

The intensity scattered by fine crystalline carbons is discussed. It is shown that the formulas of intensity published in literature do not adequately take into account the assumed disorder. The error caused by this fact in the usual determination (from the Debye-Scherrer line width) of crystallite dimensions is dealt with. The interpretation of diffuse scattered intensity on the basis of Warren's theory, reported in literature, is found to be justified even without using the particular disorder assumption applied there. The author's considerations permit in principle the determination of the disorder from the scattered intensity. The kind of neutron diffraction measurements required for this purpose are given. For the present however the actual application of this method encounters mathematical difficulties.

SZABO, Pal

On the orientation of large monocrystals for neutron monochromators.
Koz fiz kozl MTA 7 no.6:366-373 '59. (EEAI 9:8)

1. Szilardtestifizikai Laboratorium, Kozponti Fizikai Kutato
Intezet, Magyar Tudomanyos Akademia.
(Neutrons) (Monochromators) (Crystals)

SZABO, Pal

Application of neutron-diffraction in the fine structural research of the matter. I. (To be contd.). Fiz. szemle 9 no.1:18-23 Ja '59.

1. Kozponti Fizikai Kutató Intézet Neutronfizikai Osztály.

HUNGARY/Solid State Physics - Structural Crystallography.

R

Abs Jour : Ref Zhur Fizika, No 1, 1960, 1031

Author : Szabo, Pal

Inst : -

Title : Use of Neutron Diffraction for the Investigation of
the Fine Structure of Substances. II. Continuation
of a Survey.

Orig Pub : Fiz. szemle, 1959, 9, No 2, 58-62

Abstract : For Part I see Referat Zhur Fizika, 1959, No 11,
24918.

Card 1/1

HUNGARY/Solid State Physics - Structural Crystallography.

E

Abs Jour : Ref Zhur Fizika, No 1, 1960, 1032
Author : Szabo, Pal
Inst :
Title : Use of Neutron Diffraction for the Investigation of
the Fine Structure of Substances. III.
Orig Pub : Fiz. szemle, 1959, 9, No 3, 85-88
Abstract : End of survey.
For Part II see Abstract 1031.

Card 1/1

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HUNGARY/Solid State Physics - Solid State Theory - Crystallography. E

Abs Jour : Ref Zhur Fizika, No 4, 1960, 8642

Author : Szabo, P.

Inst : ~~XXXXXXXXXXXX~~

Title : On the Calculation of Intensity Scattered by Fine-Crystalline Coals.

Orig Pub : Acta phys. Acad. scient. hung., 1959, 9, No 3, 285-295

Abstract : The author considers the scattering of x-rays by small particles of graphite. It is taken into consideration that at small particle dimensions a disorder appears in the placement of the atoms. The atomic planes perpendicular to the hexagonal axis remain parallel and equidistant, but the shift are rotated relative to the ideal lattice. The results of the calculation of the distribution of the scattering intensity in the space of the reciprocal lattice (Warren B.E., Physical Review, 1941, 59, 693), according to which for most regular

Card 1/3

HUNGARY/Solid State Physics - Solid State Theory - Crystallography. E

Abs Jour : Ref Zhur Fizika, No 4, 1960, 8642

reflections of the type (hk) there occurs a reflection from a perfectly disordered aggregate of atomic planes, and the distribution is the same as in ideal small crystals for reflections of the type (00l), are critically reviewed. In the author's opinion, it is only for very large shifts of atomic planes that the intensity distribution, corresponding to reflections of the type (hk), agree with Warren's results. For reflections (00l) one obtains another distribution even in this case. In the case of small shifts (less than the lattice constant) different distributions are obtained for all the reflections. Unlike the statement made by Warren, it is the author's opinion that the distribution of the intensity changes also if one take into account not only the shifts, but the rotations of the atomic planes. The use of the resultant new formulas for the scattering intensity may change the dimensions of the particles, as determined

Card 2/3

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HUNGARY/Solid State Physics - Solid State Theory - Crystallography. E

Abs Jour : Ref Zhur Fizika, No 4, 1960, 8642

by the width of the lines on the Debye pattern, by a factor of 2. It is noted that the magnitudes of the shifts of the atomic planes can in principle be determined from scattering data, whereas, in the author's opinion, it is more convenient to use neutron scattering when the absorption and incoherent scattering are small.
-- M.A. Krivoglaz

Card 3/3

GORDON, Janos,; SZABO, Pal.

Great BF_3 computrons suitable as detectors to neutron diffractometers.
Magy fiz folyoir 8 no.3:211-216 '60. (EEAI 10:1)

1. Kozponti Fizikai Kutato Intezet, Budapest. Szilardtestfizikai
Laboratorium.

(Neutrons) (Cobalt) (Radioisotopes)
(Diffractometer) (Boron fluoride) (Polonium)
(Beryllium) (Cadmium) (Aluminum)

SABO, P. [Szabo, P.]; KREN, E.

Goniometer for orienting large single crystals employed in the
monochromatization of neutrons. Prib. i tekhn. eksp. 6 no.2:
76-77 Mr-Ap '61. (MIRA 14:9)

1. Tsentral'nyy nauchno-issledovatel'skiy institut fiziki AN
Vengerskoy Narodnoy Respubliki, Budapesht.
(Neutrons) (Goniometers)

NAGY, Endre, dr.; VEZEKENYI, Klara, dr.; SZABO, Peter, dr.

Treatment of childhood morphea with combined antimalarials and novocain. Borgyogy. vener. szemle 38 no.5:226-230 0 '62.

1. A Debreceni Orvostudományi Egyetem Borklinikájának közleménye
(Igazgató: Szodoray Lajos dr. egyetemi tanár).
(SCLERODERMA) (PROCAIN) (CHLOROQUINE)

SZABO, Piroska

Determination of the inner friction coefficient of solid paraffin.
Magy fiz folyoir 8 no.2:125-130 '60. (EEAI 9:10)

1. Epitoipari es Kozlekedesi Muszaki Egyetem Kiserleti Fizikai
Intezet.
(Paraffins)

"System of Karstic Water in the Mecsek Mountains", P. 241, (HIDROGEGIAI
FIZIKA, Vol. 33, No. 7/8, July/Aug. 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEA), LC, Vol. 4, No. 3,
March 1955, Incl.

SCARD, T.

New apparatus with a series of sieves, p. 245, (FOLDTANIKUSZLONY, BULLETIN OF THE HUNGARIAN GEOLOGICAL SOCIETY, Budapest, Hungary.) Vol. 84, No. 3, July/Sept. 1954.

SO: Monthly List of East European Accessions, (SEAL), IC, Vol. 4, No. 5, May 1955, Uncl.

SZABO, P.

SZABO, P. Origin of the Upper Pleistocene layers of sand in the area between the Danube and the Tisza on the basis of mineralogical composition. p.442.

Vol. 85, no. 4, Oct./Dec. 1955

FOLDTANI KOZLONY. BULLETIN OF THE HUNGARIAN GEOLOGICAL SOCIETY.

GEOGRAPHY & GEOLOGY

Budapest, Hungary

So: East European Accessions, Vol. 5, No. 5, May, 1956

SZABO, P.

FOLDTANI KOZLONY. BULLETIN OF THE HUNGARIAN GEOLOGICAL SOCIETY. (Magyar
Foldtani Tarsulat) Budapest.

Bauxite prospecting well No. Cn 211 near Csabrendek. p. 332

Vol. 88, No. 3, July/Sept. 1958

Monthly List of East European Acessions (EEAI), LC, Vol. 8, No. 3, March 1959
Unclass.

SZABO, Pal Zoltan, dr., a földrajztudományok kandidátusa

The 8th Congress arranged by the Geographical Society of the Czechoslovak Academy of Sciences in Opava, June 28-July 2, 1959. Foldr kozl 7 no.4: 370-371 '59.

1. Tudományos intézeti igazgató, Pécs.

CSAJAGHY, Gabor; BOZSONY, Denes; PICHLER, Janos; KASSAI, Ferenc;
GYORGY, Istvan; SZABO, Pal Zoltan; DEVENY, Istvan (Szeged);
KIRALY, Lajos (Miskolc); ZIEGLER, Karoly; PAPP, Szilard;
SCHMIDT, Eligius Robert; GALLI, Laszlo; VAJDA, Jozsef;
RONAI, Andras; ILLES, Gyorgu; OLLOS, Geza; FINALY, Lajos;
MOSONYI, Emil; PAPP, Ferenc

Minutes of the December 19, 1958 general meeting arranged by
the Hungarian Hydrological Society, Hidrologiai kozlony 39
no.5:394, 401-404 O '59.

1."Hidrologiai Kozlony" szerkeszto bizottsagi tagja (for
Csajaghy, Gyorgy, Szilard Papp, Ferenc Papp, Schmidt and
Galli). 2. Orszagos Vizugyi Foigazgatosag (for Ziegler).

SZABO, Pal Zoltan

"Geology of Hungary" by Elemer Vadasz. Reviewed by Pal Zoltan Szabo.
Pecsi musz szemle 5 no,3:10 JI-S '60.

1. "Pecsi Muszaki Szemle" szerkeszto bizottsagi tagja.

SZEKELY, Andras, dr., egyetemi adjunktus; BULLA, Bela, dr., egyetemi tanar;
MAJOR, Jenő, dr.; KOCH, Ferenc, dr., egyetemi tanar;
TOTH, Aurel, közepiskolai tanar; KAZAR, Leona, tanszékvezető
tanar; DUDAR, Tibor; RADO, Sándor, egyetemi tanar, a
földrajztudományok doktora; DEZSENYI, János, dr.; KARLOCAI, János, dr.;
LANG, Sándor, dr., egyetemi docens, a földrajztudományok kandidátusa
(Szeged); KORPAS, Emil, dr., egyetemi docens, a földrajztudományok
kandidátusa (Szeged); FENZES, István, dr. (Szeged); KOLTA, János, dr.;
SZABO, Pál Zoltán, dr., földrajzi tudományok kandidátusa;
PINCZES, Zoltán, dr.; KADAR, László, dr.; FRISNYAK, Sándor;
PEJA, Győző, dr., földrajztudományok kandidátusa

Reports on the work of the Divisions and country sections at
the 82d general assembly of the Hungarian Geographical Society.
Foldr közl 8 no.3:323-336 '60.

1. Magyar Földrajzi Társaság választmányi tagja (for Szekely,
Toth, Kazar, Karlocai, Lang, Korpas, Kolta, Szabo, Pinczes,
Peja). 2. Magyar Földrajzi Társaság tiszelnöke (for Bulla,
Koch and Rado). 3. "Földrajzi Közlemények" szerkesztő
bizottsági tagja (for Koch and Rado). 4. Magyar Tudományos
Akadémia levelező tagja (for Bulla). 5. Magyar Földrajzi
Társaság Természeti Földrajzi Szakosztály elnöke (for Bulla).
(Continued on next card)

SZEKELY, Andras---(continued) Card 2.

6. Magyar Foldrajzi Tarsasag Termeszeti Foldrajzi Szakosztaly titkara (for Szekely). 7. Magyar Foldrajzi Tarsasag Gazdasagi Foldrajzi Szakosztaly elnoke (for Koch). 8. Magyar Foldrajzi Tarsasag Gazdasagi Foldrajzi Szakosztaly titkara (for Major). 9. Magyar Foldrajzi Tarsasag Oktatasmodszertani Szakosztaly elnoke, es Kozponti Pedagogus Tovabbkepzo Intezet (for Major). 10. Magyar Foldrajzi Tarsasag Oktatasmodszertani Szakosztaly titkara, es szakfelugyelo (for Toth). 11. Magyar Foldrajzi Tarsasag Terkepeszeti Szakosztaly elnoke (for Rado). 12. Magyar Foldrajzi Tarsasag Terkepeszeti Szakosztaly elnoke (for Rado). 13. Magyar Foldrajzi Tarsasag Termeszettaro Csoport (for Dezsényi and Karlocai). 14. Vallalati jogtanacos (for Karlocai). 15. Magyar Foldrajzi Tarsasag Szegedi Osztalya elnoke (for Lang and Korpas). 16. Magyar Foldrajzi Tarsasag Szegedi Osztalya titkara (for Penzes). 17. Magyar Foldrajzi Tarsasag Del-Dunantuli Osztalya elnoke, es tudomanyos intezeti igazgato, Pecs (for Szabo). 18. Magyar Foldrajzi Tarsasag Del-Dunantuli Osztalya titkara, es tudomanyos munkatars, Pecs (for Kolta).

(Continued on next card)

SZEKELY, Andras--(continued) Card 3.

19. Magyar Foldrajzi Tarsasag Tiszantuli Osztalya elnoke (for Kadar).
20. Magyar Foldrajzi Tarsasag Tiszantuli Osztalya titkara (for Pinczes).
21. Magyar Foldrajzi Tarsasag Miskolci Osztalya Elnoke, es Kossuth-tijas gimnaziumi igazgato (for Peja).
22. Magyar Foldrajzi Tarsasag Miskolci Osztalya titkara (for Frisnyak).

SZABO, Pal Zoltan, dr., a foldrajztudományok kandidátusa (Pecs)

Albania. Term tud kozl 5 no.2:51-54 F '61.

SZABO, Pal Zoltan

Selection of the site of a newer fertilizer works from the point of view of Southern Dunantul, a region in Hungary.
Pecsi musz szeml 6 no.4:4-6 0-D '61.

1. "Pecsi Muszaki Szemle" szerkeszto bizottsagi tagja

SZABO, Pal Zoltan, dr.

"Geography of Czechosl vakia" by Vlastislav Haufler, Jaromir Korcak,
Vaclav Kral. Reviewed by Dr. Pal Zoltan Szabo. Foldr kozl 9 no.3:266-
267 col.

SZABO, Pal Zoltan, dr., a földrajztudományok kandidátusa

"Geography of Czechoslovakia" by Vlastislav Haufler, Jaromir
Korcak, Vaclav Kral. Reviewed by Pal Zoltan Szabo. Foldr
kozl 9 no.3:266-267 '61.

1. Tudományos intézeti igazgató, Pécs; Magyar Földrajzi
Társaság választmányi tagja.

SZABO, Pal Zoltan

Physical geography of Czechoslovakia in pictures" by Josef Kinsky.
Reviewed by Pal Zoltan Szabo. Foldr kozl 9 no.4:364 '61.

SZABO, Pal Zoltan, dr., a földrajztudományok kandidátusa (Pecs)

Where does science progress? Term tud kozl 6 no.8:363-364 Ag
'62.

1. Magyar Földrajzi Társaság elnöke, és "Természettudományi
Közlöny" szerkesztő bizottsági tagja.

SZABO, Pal Zoltan, dr.

The 90-year-old Hungarian Geographical Society. Term tud kozl 6 no.11:
481-483 N '62.

1. Magyar Foldrajzi Tarsasag elnoke; a Magyar Tudomanyos Akademia
Dunantuli Tudomanyos Intezetenek igazgatoja, Pecs; es a "Termeszettudomanyi
Kozlony" szerkeszto bizottsagi tagja.

SZABO, Pal Zoltan, a foldrajztudományok kandidátusa

Our salute to the 80-year-old Gyula Prinz, honorary chairman of our Society. Foldr kozl 10 no.1:110-111 '62.

1. Tudományos intézeti igazgató, Pécs, és "Magyar Foldrajzi Társaság választmányi tagja.

SZABO, Pal Zoltan, a földrajztudományok kandidátusa (Pecs);
PECSI, Marton; MIKLOS, Gyula, gimnaziumi tanár

The 85th General Meeting of the Hungarian Geographical Society. Foldr kozl 10 no.3:290-299 '62.

1. Tudományos intézeti igazgató; Magyar Földrajzi Társaság elnöke; "Földrajzi Közlemények" szerkesztő bizottsági tagja (for Szabo). 2. Magyar Földrajzi Társaság főtájkara; "Földrajzi Közlemények" főszerkesztője (for Pecs). 3. "Földrajzi Közlemények" szerkesztője (for Miklos).

SZABO, Pal-Zoltan, dr., a földrajztudományok kandidátusa (Pecs);
KOLTA, Janos, dr. (Pecs)

Report on the work of the South Dunantul Section. Foldr
kozl 10 no.3:305-306 '62.

1. Tudományos intézeti igazgató; Magyar Földrajzi Társaság
elnöke; "Földrajzi Közlemények" szerkesztő bizottsági tagja;
Magyar Földrajzi Társaság Dél-dunántúli Osztálya elnöke
(for Szabo). 2. Tudományos munkatárs: Magyar Földrajzi
Társaság Dél-dunántúli Osztályának titkára (for Kolta).

SZABO, Pal Zoltan, dr., a foldrajztudományok kandidátusa

The 90-year-old Hungarian Geographical Society. Foldr közl 10
no.4:313-321 '62.

1. Magyar Foldrajzi Társaság elnöke; tudományos intézeti igazgató,
Pécs; "Foldrajzi Közlemények" szerkesztő bizottsági tagja.

PECSI, Maron, a földrajztudományok doktora; SIMON, László, tudományos munkatárs; SZABO, Pál Zoltán, dr., a földrajztudományok kandidátusa

The 1962 anniversary conference of geography. Földr közl 10 no.4:355-362 '62.

1. Tudományos intézeti igazgató, Budapest; "Földrajzi Közlemények" főszerkesztője (for Pecsí). 2. Földrajzi Kutató Csoport gazdasági földrajzi részleg vezetője; "Földrajzi Közlemények" szerkesztő bizottsági tagja (for Simon). 3. Magyar Földrajzi Társaság elnöke; tudományos intézeti igazgató, Pécs: "Földrajzi Közlemények" szerkesztő bizottsági tagja (for Szabo).

SZABO, Pal Zoltan, dr., a földrajztudományok kandidátusa; SARFALVI, Bela,
tudományos munkatárs

The Geographical Research Group of the Hungarian Academy of Sciences
celebrates the 10th anniversary of its existence. Földr közl 10
no.4:363-367 '62.

1. Magyar Földrajzi Társaság elnöke; tudományos intézeti igazgató,
Pécs; "Földrajzi Közlemények" szerkesztő bizottsági tagja (for
Szabo).

MAROSI, Sandor; SCHERF, Emil, dr., a föld- es szvanytani tudományok
kandidatusa; PECSI, Marton, dr., a földrajzi tudományok kandidatusa;
SZESZTAY, Karoly, dr., a muszaki tudományok kandidatusa; SZABO,
Pal Zoltan, dr., a földrajzi tudományok kandidatusa; LANG, Sandor,
dr., a földrajzi tudományok kandidatusa; JAKUCS, Pal, dr., a
biológiai tudományok kandidatusa

Debate about Sandor Somogyi's dissertation for candidacy entitled
"The formation of Hungary's river system." Foldrajzi ert ll no.1:
131-148 '62.

1. "Foldrajzi Ertesito" szerkesztoje (for Marosi). 2. Dunantuli
Tudomanycs Intezet igazgatoja (for Szabo).

SZABO, Pal Zoltan, dr., a földrajztudományok kandidátusa

The Mecsek Mountains. Term tud kozl 7 no.9:389-392 '63. S

1. Magyar Tudományos Akadémia Dunántúli Tudományos Intézete-
nek igazgatója, Pécs; "Természettudományi Közlöny" szerkesz-
tő bizottsági tagja.

SZABO, Pal Zoltan, dr., a földrajztudományok kandidátusa (Pecs)

"Physical geography of Hungary" by [Dr] Bela Bulla. Reviewed by
Pal Zoltan Szabo. Földr közl 11 no.2:175-178 '63.

1. Magyar Földrajzi Társaság elnöke; tudományos intézeti
igazgató; "Földrajzi Közlemények" szerkesztő bizottsági tagja.

TOTH, Balint; SZABO, Pal

Manufacturing process organization in the furniture industry.
Faipar 12 no.11:336-343 N '62.

1. Faipari Gyartastervező Iroda.

SZABO, Pal Zoltan, dr., a foldrajztudományok kandidátusa

The Dunantul Research Institute of the Hungarian Academy
of Sciences. Term tud kozl 7 no.9:418 S '63.

1. Magyar Tudományos Akadémia Dunantuli Tudományos Intézete-
nek igazgatója, Pécs; "Természettudományi Közöny"
szerkesztő bizottsági tagja.

SZABO, Pal Zoltan; JONAS, Klara, dr.; VARADI, Gyorgy; BIRO, Antal;
UPOR, Endre; RADO, Aladar; CZIRJAK, Imre; KOVACS, Jenő;
VALKO, Endre, dr.; ADONYI, Ivan; FODOR, Gyorgy; OSZETZKY,
Egon; KALMAR, Pal; DANYI, Dezse; GYORGY, Karoly; OVARI, Antal;
PHILIP, Miklos; BAKAI, Laszlo; JOO, Oszkarne; SZITAS, Lajos;
HELLENYI, Miksa; KOLTA, Janos.

Formation of an uniform country organization for the Federa-
tion of Technical and Scientific Associations. Pecszi musz
szemle 8 no.4:19-23 O-D'63.

1. "Pecszi Muszaki Szemle" foszerkesztoje (for Fodor).
2. "Pecszi Muszaki Szemle" szerkesztoje (for Hellenyi, Kolta
and Oszetzky).

SZABO, Pal Zoltan, dr., a foldrajztudományok kandidátusa (Pecs)

Some geographical aspects of the Third International Speleological Congress. Foldr kczl ll no.1:72-75 '63.

1. Tudományos intézeti igazgató; Magyar Földrajzi Társaság elnöke;
"Földrajzi Közlemények" szerkesztő bizottsági tagja.

SZABO, Pal Zoltan, a foldrajztudomanyok kandidatusa

Significance of hydrogeography. Foldr. kozl.11 no.3:189-194
'63.

1. Tudomanyos intezeti igazgato, Pecs; Magyar Foldrajzi Tar-
sasag elnoke; "Foldrajzi Kozlemenyek" szerkeszto bizottsagi
tagja.

MAROSI, Sandor; SZEKELY, Andras, dr., a földrajzi tudományok kandidátusa;
PECSI, Marton, dr., a földrajzi tudományok kandidátusa;
LANG, Sandor, dr., a földrajzi tudományok kandidátusa;
SZABO, Pal Zoltan, dr., a földrajzi tudományok kandidátusa;
RADO, Sandor, dr., a földrajzi tudományok doktora;
SZADECZKY-KARDOSS, Elemer, dr., akadémikus; KRETZOI, Miklos, dr.,
a föld- és asványtani tudományok doktora; KADAR, Laszlo, dr.,
a földrajzi tudományok doktora

A debate about Candidate Dr. Andras Szekely's dissertation
entitled "The formation and surface forms of the Matra Mountains
and their vicinity." Földrajzi ert 12 no.1:99-118 '63.

1. "Földrajzi Ertesito" szerkesztoje (for Marosi).

VITALIS, Sandor, dr.; BOZSONY, Dones; SZABO, Pal Zoltan, dr.; PAP, Ferenc;
LASZLOFFY, Woldemar, dr.

An account of the 46th general meeting arranged by the Hungarian Hydrological Society on March 14, 1963 dealing with its work in 1962. Hidrologiai kozlony 43 no.3:272-275 Je '63.

1. Magyar Hidrologiai Tarsasag elnoke (for Vitalis).
2. Magyar Hidrologiai Tarsasag fotitkara; "Hidrologiai Kozlony" szerkeszto bizottsagi tagja (for Bozsony).
3. Magyar Hidrologiai Tarsasag Deldunantuli Csoportja; Magyar Foldrajzi Tarsasag (for Szabo).
4. "Hidrologiai Kozlony" szerkeszto bizottsagi tagja (for Laszloffy).

TOTH, Lajos; PEREDI, Lajos, dr.; SZIJGYARTO, Gyula; SZABO, Pal; BALAJTHY, Kalman

Remarks about Dr. Istvan Kovacs' article entitled "Certain questions relating to the calculation of average income." Munka szemle 5 no.1:28-32 Ja '61.

1. Voros Csillag Traktorgyar, Budapest (for Toth).
2. Kispesti Husipari Vallalat (for Peredi).
3. Szemuvegkeretgyar, Budapest (for Szijgyarto).
4. Epito kisipari termeloszovetkezet, Pecs (for Szabo).
5. BIOGAL Gyogyszergyar, Debraqen (for Balajthy).

SZABO, Pál Zoltán, dr., a földrajzi tudományok kandidátusa (Pecs)

Geomorphology of the Drava Plain. Földrajzi értekezés no.31261-275
'64.

SZABO, Pal Zoltan, dr., a foldrajztudományok kandidátusa (Pécs)

Question of wind power utilization. Foldr kozl 12 no.3:
193-197 '64.

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Intezete (vezeto foorvos: Lengyel Bertalan dr.) kozlemeny.

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