

KWASNIEWSKI, Julian; SZARANIEC, Tadeusz

Anchoring capacity of slender loops in noncohesive soil;
model studies. Rozpr hydrotechn no. 14: 75-83 '63.

KWASNIEWSKI, Julian; SZARANIEC, Tadeusz

Further model studies on the anchoring capacity of
plow moldboards. Rozpr hydrotechn no. 14: 85-92 '63.

JOZEFOWICZ, Grazyna; SZARAFINSKA, Jadwiga; SZYMBERG, Janina

Studies on the gross plaques on children's teeth. *Gaz. stom.*
18 no. 12: 1378-1378 D ' 65.

1. Z Zakladu Stomatologii Zachowawczej AM w Lodzi (Kierownik:
prof. dr. M. Fuchs) i z Zakladu Bakteriologii AM w Lodzi
(Kierownik: doc. dr. med. A. Ganczarski).

KUCZYNSKI, Wienczyslaw; PRZYCHODZKA, Teresa; SZARATA, Zofia

Catalytic activity and surface acidity of aluminas. Roczniki chemii
37 no. 7/8:843-848 '63.

1. Katedra Technologii Chemicznej, Uniwersytet, Poznan.

SZARAWARA, Jozef

Studies on statics of the system water-ammonia-sulphur dioxide.
II. Diphas equilibrium "solution gas phase". Chemia stosow 5
no.3:395-425 '61.

1. Katedra Technologii Wielkiego Przemyslu Nisorganicznego, Politechnika
Slaska, [Gliwice].

SZARAWARA, Jozef

Studies on the statics of a system: water - ammonia - sulphur dioxide. III. Obtaining sulphur dioxide from diluted gases using the ammonium-sulphide method. Chemia stosow 5 no.4:551-563 '61.

1. Katedra Technologii Wielkiego Przemysłu Nieorganicznego, Politechnika Śląska, Gliwice.

SZARAY, N.

Determination of cathode sensitivity distribution of photomultipliers. In English. p. 255. ACTA PHYSICA. Budapest. Vol. 4, no. 3, 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 2,
February 1956

SZARBINSKI, T.

ZAJACZEK, S.; JORDAN, M.; SZARBINSKI, T.

Criticism of chromosome theory of heredity based on studies of early periods of ontogenesis. Przegl. lek., Krakow 8 no. 4:97-100 1952.
(CLML 22:5)

1. Of the Institute of Biology (Head--Prof. St. Skowron, M. D.) of Krakow Medical Academy and of the Institute of Biology (Head--Prof. St. Zajaczek, M. D.) of Maritime Medical Academy in Szczecin.

DOLEZAL, Marian; GODLEWSKI, Wieslaw; KOWALCZYK, Mieczyslaw; ~~SZARBINSKI, Tadeusz~~

Proteinogram and Sabin-Feldman color test. Wiadomosci parazyt., Warsz.
4 no.5-6:405-406; Engl. transl. 406-408 1958.

1. Z Zakladu Mikrobiologii Ak. Med. i II Kliniki Chor. Wewn. Ak. Med.
w Krakowie.

(BLOOD PROTEINS, determination,
Sabin-Feldman color test (Pol))

GODLEWSKI, Wieslaw; SZARBINSKI, Tadeusz

A modified method for the separation of leukocytes and blood platelets. Polskie arch.med.wewn. 29 no.5:623-628 '59.

1. Z II Kliniki Chorob Wewnętrznych A.M. w Krakowie Kierownik:
prof. dr nauk med. T. Tempka.
(LEUKOCYTES)
(BLOOD PLATELETS)

KIRCHMAYER, Stanislaw; SZARBINSKI, Tadeusz

Myleran therapy of erythrocythemia vera. Polski tygod.lek. 16
no.5:173-176 30 Ja '61.

1. Z Wojewodzkiej Poradni Chorob Krwi przy II Klinice Chorob
Wewnetrznych A.M. w Krakowie; kierownik: prof. dr nauk med.
Tadeusz Tempka.

(POLYCYTHEMIA VERA ther)
(BUSULFAN ther)

DOLEZAL, Marta; DOLEZAL, Marian; SZARBINSKI, Tadeusz; ZAJACZKOWSKI, Jozef

Role of yeasts in diseases of the biliary tract. Polski tygod. lek.
16 no.42:1604-1606 16 0 '61.

1. Z Kliniki Chorob Zakaznych A.M. w Krakowie; kierownik: prof. dr
Wladyslaw Fejkiel; z Zakladu Mikrobiologii lekarskiej A.M. w
Krakowie; kierownik: prof. dr Zdzislaw Przybylkiewicz; z Wojewodzkiego
Szpitala Ministerstwa Spraw Wewnetrznych w Krakowie; dyrektor:
mjr lek. Franciszek Moskala.
(BILIARY TRACT dis) (MYCOSES)

RYCHEL, Stanislaw; SZARBINSKI, Tadeusz

A case of adrenal cyst and its relation to a chromophil tumors.
Przegl. lek. 21 no.6:455-457 '65.

1. Z Oddzialu Chirurgicznego (Ordynator: Dr. med. B. Czyzowski)
i z Oddzialu Wewnetrznego Szpitala Ministerstwa Spraw Wewnetrznych
w Krakowie (Dyrektor: Mjr lek. F. Moskala).

POLAND

WROBLEWSKA-MULARCZYK, Zofia and OLKOWSKA, Danuta (with technical assistance of SZARECKA, Alicia and ROZWADOWSKA, Teresa), Virusology Research Office (Zaklad Virusologii) of the PZH [Panstwowy Zaklad Higieny, State Institute of Hygiene] (Director: Prof. Dr. F. PRZESNYCKI)

"Investigations on Arbor Viruses Never Previously Isolated in Poland."

Warsaw, Przegląd Epidemiologiczny, Vol 16, No 3, 62, pp 265-272.

Abstract: [Authors' English summary modified] Serological screening of 1039 healthy persons for the presence of Arbor virus groups A and B antibodies has been carried out by means of the haemagglutination test. Findings for the B group were: tick-borne encephalitis 2.5 percent, explained by the presence of foci in Poland, and 1.09 and 1.3 percent respectively for Japanese B encephalitis and West Nile fever, explained by a cross reaction within the group. Positive findings for the A group (West equine encephalitis) on the order of 2.3 percent suggests the presence in Poland of foci. Investigations to be continued. 4 English and 10 Polish references.

SZAREJKO, A., mgr. inz.; ROMANOWSKI, J., mgr. inz.

The Czechoslovak machine-tool industry at the 31st International
Poznan Fair. Mechanik 35 no.5:272-274 My '62.

SZAREJKO, J.

"Prefabrication of Pipelines in Shipbuilding." (To be contd.) p.282
(TECHNIKA I GOSPODARKA MORSKA Vol. 3, no. 8, August 1953 Gdansk, Poland)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

SZAREJKO, J.

3895

021.947.8 : 629.12.061

Szarejko J. Cold Tube Bending.

"Głecia rur na zimno". Technika i Gospodarka Morska. No. 12, 1954,
pp. 353-359, 7 figs., 1 tab.

The behaviour of tubes submitted to bending is discussed, and attention drawn to the advantages of cold bending. Cold bending technique, with or without the use of a core gauge. Physical processes involved in cold bending operations are considered i.e. changes in wall thickness, formation of folds, diminution of bore. Bending machines and the bending process are described.

SZAREBJKO, Janusz, inż.

Prefabricated ship pipelines. Bud okretowe Warszawa 9
no.3:87-89 Mr '64.

1. Centralne Biuro Konstrukcji Okretowych no.1, Gdansk.

SZAREJKO, Janusz, inz.

Use of joints with flanged edges on ship steel pipelines. Bud
okretow Warszawa 10 no.1:20-21 Ja '65.

1. Research Center of Shipbuilding of the Central Ship Design
Office No.1, Gdansk.

~~Roman Szarejko~~, Roman

✓ Filter press with hydromechanical mud removal invented by Roman Szarejko. Roman Szarejko, Gaz. Cukrownicza 58, 34-6(1960).—The filter press is arranged so that the filter cake in beet-sugar refineries is removed by water under pressure so that manual removal of the filter cake and washing of the filter cloth are avoided. Application of filter cloth made out of metal eliminates changing of the filter cloth for several months.

Med

P. I. Mondel

COUNTRY : POLAND
 CATEGORY : Chemical Technology. Chemical Products and Their Applications. Carbohydrates and Their Processing.
 ABS. JOUR. : RZhKhim., No 17, 1959, No. 62447
 AUTHOR : Szarejko, R.; Zagrodzki, S.; Dobrycki, J.
 INSTITUTE : -
 TITLE : Effects of Calcium Carbonate and of Saturated Residue on the Increase of Juice Color During
 ORIG. PUB. : Roczn. technol. i chem. zyw., 1957, 2, 101-112

ABSTRACT : Presented are analysis techniques and results of investigations conducted in laboratory and in commercial installations pertaining to the effects of CaCO_3 particles and of the saturated residue on the increased coloration of the evaporated juice and on the fouling of evaporator heat transfer surfaces. It is proved that in the presence of CaCO_3 particles, the juice does not darken which is explained by the adsorption of coloring compounds present in the juice and formed during the

*the Evaporation and on Fouling of the Heating Surfaces in Evaporators.

Card: 1/2

H - 107

POLAND/Chemical Technology, Chemical Products and Their
Application, Part 3. - Carbohydrates and Their
Treatment.

H-26

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 34111.

periodical centrifuging. Schemes of automatic control
of the temperature of diffusion and of the pumping off
of the juice and of the 1st and 2nd saturation in ac-
cordance with the pH indices or the juice amount and
pH are presented. Possible trends of process automa-
tization at sugar factories are discussed.

Card : 2/2

SZAREJKO, Wacław, doc inz.; P[REDACTED], Paweł, dr inz.

New books. Inz i bud 20 no.12:493, 3 of cover D '63.

SZAREJKO, Wacław, doc. inż.

Gypsum acting on cement concrete. Inz i bud 20 no.11:427-430
N '63.

1. Politechnika, Wrocław.

SZAREWICZ, H.

"Angina Cannot Be Disregarded. p. 11", ZDROWIE) Vol. 5, No. $\frac{1}{2}$, 1953, Warszawa, Poland.

SO: Monthly List of East European Accessions L.C., Vol. 2, No. 11, Nov. 1953, Uncl.

MYSAKOWSKA, Helena; SIKORA-ROZYNSKA, Maria; SZAREWICZ, Wieslawa

A brief outline of tuberculosis control in the Lublin Region
and a plan for its eradication. Gruzlica 31 no.6:526-532
Je'63.

1. Klinika Ftizjatryczna AM, Lublin.

MYSAKOWSKA, Helena; GRODZKI, Stanislaw; PRZEMYSKA, Barbara;
SZAREWICZ, Wieslawa; SREDNICKA, Danuta

Comparison of efficiency of large and small doses of isoniasid
in combined treatment in pulmonary tuberculosis. Pol. tyg. lek.
20 no.16:562-564 19 Ap '65.

1. Z Katedry Ftyzjatrii AM w Lublinie (Kierownik: doc. dr. med.
Helena Mysakowska).

MYSAKOWSKA, H.; WIERCICH, M.; SMAGA, N.; GORSKA, S.; CYGAN, E.; SZAREWICZ, W.
SIKORA-MAGALINSKA, J.; JARZYNA, J. (Lublin)

Cases of delay and neglect in the treatment of pulmonary tuberculosis among the rural population. Gruzlica 31 no.6:674-676
Ja'63.

*

SZARFENBERG, J.

SZARFENBERG, J. The Borecka virgin forest. p. 11, No. 2, Feb. 1956. Warszawa,
Poland
Turysta

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

SZARGUT, JAN.

Szargut, Jan. Racjonalne spalanie węgla Warszawa, Państwowe Wydawn.
Techniczne, 1951. 27 p. (Biblioteka racjonalizatora) (Economic
coal combustion. Illus)

SO: East European, LC Vol. 2, No. 12, Dec. 1953

SZARGUT, J.

Polish Technical Abstracts
No. 4, 1953
Metallurgy

5620147
Szargut J., Rydzka E. The Necessity of Coordinating Material Balances.
„Konieczność uzgadniania bilansów masowych”. (Prace Inst. Hut-
niczego No. 5) Katowice, 1952, PWT, 8 pp.

Material balance is a basis for heat balance in industrial plants. As far as chemical processes are concerned, the material balance consists of material balances of fundamental elements of the process and eventually of material balance of additions. In equations of material balance there are always magnitudes unmeasured. If a number of these magnitudes is lower than that of the equations, there should be strictly determined relations between the magnitudes measured. The magnitudes resulting from measurements do not conform to those relations, since no measurement is free from error. In this case, the material balance is not equilibrated and requires an adjustment. Effects of non-adjusted material balance are illustrated on numerical examples. The results of stoichiometric calculations depend on the method of calculating. The results of heat balance depend on the method of balancing. Theoretical considerations and numerical examples show that the adjustment of material balance is indispensable, the method of adjustment being open to discussion.

P O L .

3302

662.611

Ochędusko S., Szargut J. Methods for the Determination of Incomplete Combustion Ratio.

„Metody wyznaczania stosunku niecałkowitego spalania”. Gospodarka Ciepła-Energetyka Przemysłowa. No. 8, 1983, pp. 10--22, 4 figs.

There exist two methods of determining incomplete combustion of coal -- the direct method which, subject to the expenditure of considerable time, gives accurate results, and the intermediate method which, although it takes less time, is inaccurate. The authors describe a new, direct method, which they have developed, and which is, from the technical point of view, sufficiently accurate. This method consists in determining the ratio of incomplete combustion of coal on by measuring the coefficient of moisture of the combustion products. The following methods are suggested for determining this latter value: -- absorption, acetylene, psychometric, and dew-point measurement.

SZARGUT, J.

P O L .

3290

621.317.884

Szargut J. Mechanical Work Losses in Industrial Power Equipment.

"Straty pracy mechanicznej w energetycznych urządzeniach przemysłowych". Gospodarka Ciepła-Energetyka Przemysłowa. No. 1, 1954, pp. 20-23, 3 figs.

Although all kinds of energy are equipotent, not all of them are equivalent. The most convenient means of determining work losses is the Gouy-Stodola law. The author, after reviewing and interpreting this law, deals with the physical idea of objective mechanical work loss measured in accordance with the principles of the Gouy-Stodola law as compared with the subjective loss computed by practical methods.

Szargut, J.

POLAND/Processes and Equipment of Chemical Industries-- K-1
Processes and apparatus for chemical technology.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10601

Author : Szargut, J.

Inst : Not given

Title : General Principles of a New Method for Drawing up
Energy Balances for Chemical Processes

Orig Pub: Zesz. nauk. Politechn. slaskiej., 1956, 81-152 (in Polish)

Abstract: A new method for drawing up energy balances for chemical processes is described, based on the heat of combustion and applicable to compounds containing elements other than C, H, N, and O, e.g., S. The method is designed for application to processes in which large heat releases take place.

Card 1/1

rels in Polish, with summaries in English and Russian. Analysis of the potential balance of physical processes, based on the second law of thermodynamics, to derive equations for the general case and for the energetic potentials of (a) a jet of the working fluid intersecting an immovable diathermic envelope, (b) of the working fluid in the container, and (c) of a jet intersecting a movable diathermic envelope. The principles involved in calculating the po-

and Appendix includes description of a method for representing the potential balance on Sankey's dia-

52 AR 61, JAN

THERMODYNAMICS

✓ BILANS POTENCJALNYCH PROCESOW
CHEMICZNYCH. J. SZARSKI, Instytut
Materiał. No 1, 1952, pp. 1-10. (The author, with
summaries in English and Russian, discusses the
calculating the potential efficiency of chemical
processes. It is pointed out that in a process
a possible reaction is not necessarily realized;
other, only as many, elements as there are
there are elements participating in the process.
A formula is derived for the potential efficiency of
chemical processes. It is shown that for a given
given to the problem of calculating the energetic
potential in the case of balancing processes in
which the elements N , O , C , H , Ar , Ne , and He ²⁷
take part. The potential efficiency of chemical
processes is defined and an example is given of the
potential balance of a process in which the combus-
tion phenomenon appears.

9

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tll

SEARPUT JAN

POLAND/Atomic and Molecular Physics - Heat

D-4

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 10451

Author : Szarput Jan

Inst : Not Given

Title : Heat Exchange Between Two Parallel Rods

Orig Pub : Zesz. nauk. Politechn. slaskiy, 1957, No 14, 93-99

Abstract : It is shown in the work that when calculating the amount of heat transferred by radiation between two parallel rods, it is necessary to change the traditional application of the filament method of T.L. Polak for the determination of the radiation coefficient. The traditional method is applicable only to surfaces with large radiating ability. If the surface considered has a low radiating ability, the error in the calculation in the amount of heat diminishes if one takes into account in the calculation of the coefficient of radiation only that portion of the given surface, which participates directly in the heat exchange by radiation.

Card : 1/1

SZARGUT, J.

Calculations of the amounts of combustion gases and of
aspirated air at the open-hearth process. J. Szargut and
J. Machuliewicz. Hutnik 24, 891-7 (1957). Math. All
the formulas are derived or presented necessary for estab-
lishing the C, H, O, N balance and are applied in numerical
examples. Wern + Jacobson

3

RG

SENGUPTA, J.

Application of the molecular moisture index to temperature calculations. p.92

8.2, WODN I TECHNIKA SANITARNA. (Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Sanitarnych, Ogrzewnictwa i Gazownictwa) Warszawa, Poland.
Vol. 33, No. 3, March 1959.

Monthly List of East European Accession (EMAI) LC, Vol. 3, no. 7, July 1959

Encl.

SZARGUT, Jan

A method of preparing the power balance account of ironworks
by means of devaluation enthalpy. Problemy proj hut maszyn
10 no.6:174-178. Je '62.

1. Politechnika Slaska, Gliwice.

SZARGUT, Jan; RADZYMSKI, Aleksander

Power balance of an ironworks. Problem proj hut maszyn 10
no.7:193-199 J1 '62.

1. Politechnika Slaska, Gliwice.

SZARGUT, Jan, prof. dr inż.

Concept of exergy as distinct from energy and possibilities of practical application of exergy. Energetyka przem 10 no.11: 374-378 N '62.

1. Katedra Energetyki Ciepłej, Politechnika Śląska, Gliwice.

PETELA, Ryszard, dr inż.; SZARGUT, Jan, prof. dr inż.

Application of exergy for the determination of economic losses
resulting from the throttling of a medium flowing through a
pipeline. Energetyka przem 10 no.11:379-384 N '62.

1. Katedra Energetyki Ciepłej, Politechnika Śląska, Gliwice.

SZARGUT, Jan, prof. dr inż.

Problem of rational rates for steam and hot water. Gosp paliw
11 no.4:132-135 Ap '63.

1. Katedra Energetyki Ciepłej, Politechnika, Gliwice.

SZARGUT, Jan; PETELA, Ryszard

Selection of heating steam produced in connected management for
membrane heat exchangers. Problemy proj hut maszyn 11 no.8:
233-240 Ag '63.

1. Politechnika Slaska, Gliwice.

SZARGUT, Jan, prof. dr inz.

Remarks on the article on the application of energy for the
calculation of the prime costs of steam and electric power in
combined production management. Gosp paliw 11 no.10:371-372
0 '63.

SZARGUT, Jan (Gliwice)

Sixth Convention of Delegates of the Polish Association of
Theoretical and Applied Mechanics. Mechan teor stosow 2
no. 1:61-69 '64.

Second Symposium of Technical Thermodynamics on Applications
of Entropy and Exergy in Engineering. Ibid.:69-71

SZARGUT, Jan, prof. dr. ing. (Poland)

Fuel economy index numbers of fuel utilization in preheating
industrial furnaces. Ipari energia 5 no.3:64 M '64.

SZARGUT, Jan; PETELA, Ryszard (Gliwice)

Application of the exergy method to evaluation of throttling losses. Archiw bud masz 11 no. 1:49-58 '64.

GEORGI, Jan., prof. dr inż.; PASIERB, Sławomir, mgr inż.; WANDRASZ,
Janusz, mgr inż.

Energy balance of a steel plant. Hutnik P 31 no. 4:123-128
Apr '64.

1. Silesian Technical University, Gliwice.

SZARGUT, Jan; ZIEBIK, Andrzej

The exergue of chemical compounds in metallurgical processes.
Probl proj hut maszyn 13 no.2:40-49 F '65.

1. Silesian Technical University, Gliwice.

MLYNARIK, Janos; SZARKA, Erno

Application of lacquers and coatings in the meat industry; excerpts
from an article. Musz elet 17 no.21:15 11 0 '62.

JANECEK, M.; HORN, V.; BRICHTA, J.; SZARKA, F.

Survival of preserved bone tissue. Acta chir. orthop. traum. Cech.
32 no.5:422-424 0 '65.

1. Ortopedická klinika (prednosta prof. dr. M. Janecek, CSc.) a
I. patologickoanatomický ústav (prednosta prof. dr. J. Svejda,
DrSc.), lékařské fakulty University J.E. Purkyně v Brně.

HORN, V.; PAPOUSEK, F.; URBANOVA, M.; SZARKA, F.

Role of some histochemical methods in bone transplantation.
Acta chir. orthop. traum. Cech. 32 no.5:425-428 0 '65.

1. Ortopedická klinika (prednosta prof. dr. M. Janecek, CSc.)
a I. patologickoanatomický ústav (prednosta prof. dr. J. Svejda,
DrSc.), lékařské fakulty University J.E. Purkyně v Brně.

HORN, V.; JANECEK, M.; POSPISIL, L.; SZARKA, F.

Detection of antibodies following clinical transplantation of
bone tissues. Acta chir. orthop. traum. Cech. 32 no.5:429-431
O '65.

1. Ortopedická klinika lékařské fakulty University J.E. Purkyne
v Brně (prednosta prof. dr. M. Janecek, CSc.).

BERTOK, Lorand, dr.; KEMENES, Ferenc, dr.; SZARKA, Geza, dr.

A case of laboratory infection with *Leptospira canicola* adapted to rodents. Orv.hetil. 101 no.48:1711-1713 27 N'60.

1. Az Allatorvostudományi Főiskola Járványtani Intézete és a Magyar Néphadsereg Egészségügyi Szolgálat.
(LEPTOSPIROSIS case reports)
(OCCUPATIONAL DISEASES case reports)

SIMON, Sandor, dr.; SZARKA, Gyula

Utilization of high-sulphur oils in blast furnaces. Koh lap 98
no.1:21-26 Ja '65.

L 16573-66 EWP(t) IJP(c) JD

ACC NR: AP6008904

SOURCE CODE: HU/0014/65/098/001/0021/0026

AUTHOR: Simon, Sandor (Doctor); Szarka, Gyula

ORG: none

TITLE: Utilization of oils with a high sulfur content in blast furnaces

SOURCE: Kohaszati lapok, v. 98, no. 1, 1965, 21-26

TOPIC TAGS: blast furnace, slag, iron, radioisotopes, pig iron, sulfur, mineral oil

ABSTRACT: Plant experiments were conducted at the Metallurgical Works (Kohaszati Uzemek) in Ozd to establish the distribution of the sulfur contained in the oil injected into the blast furnace between the slag and the crude iron. Hungarian oils, containing 3-4% sulfur, were evaluated with the aid of radioactive sulfur isotopes. Assistance in the project was provided by the Laboratory for Radioactive Isotopes at the Chair for Ferrous Metallurgy, Technical University for the Heavy Industry (Nehezipari Muszaki Egyetem Vaskohaszattani Tanszekenek Radioaktiv Izotoplaboratoriuma) [location not given]. The tests showed that the injection of oil containing high quantities of sulfur did not significantly affect the sulfur content of the pig iron. Orig. art. has: 4 figures, 3 formulas, and 9 tables. [JPRS]

SUB CODE: 11, 13, 18 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 004 / SOV REF: 001
Card 1/1 SM UDC: 662.75:669.162.2:621.384.2

SZARKA, Janos

Calculating the production of strip and foil rolling mills. Koh lap
95 no.1:20-23 Ja '62.

1. Aluminiumipari Tervezo Iroda.

(Rolling mills)

SZARKA, Jozsef, a neveléstudományok kandidátusa (Budapest); SALAMON, Jeno,
a neveléstudományok kandidátusa (Budapest)

Research in pedagogy and educational psychology in the Rumanian
People's Republic. Magy tud 68 no.9:567-568 '61.

1. Tudományos munkatárs, Magyar Tudományos Akadémia Pedagógiai
Tudományos Intézete (for Salamon). 2. Intézeti igazgató, Magyar
Tudományos Akadémia Pedagógiai Tudományos Intézete (for Szarka).

(Rumania--Education) (Rumania--Educational psychology)
(Hungarians in Rumania)

KELEMENI, Endre, dr.; SZARKA, Jozsef, dr.; BALOGH, Jozsef, dr.; BIRO,
Imre, dr.; SARDY, Istvan, dr.

An unusual case of aortic aneurysm treated by resection. Orv.
hetil. 106 no.22:1031-1034 30 My'65.

1. Tolna megyei Tanacs, Balassa Janos Korhaz (igazgato-foorvos:
Szentgali, Gyula, dr.); Sebészeti Osztaly (foorvos: Kelemen,
Endre, dr.) es Korbonctani Intezet (foorvos: Balogh, Jozsef, dr.).

DARVAS, Gyorgy, dr.; SZARKA, Laszlone, dr.; IACZEO, Imre, dr.

Significance of the determination of the iron-copper ratio and of transaminase in the blood serum in the diagnosis of acute hepatitis. Orv.hetil. 101 no.9:304-307 F '60.

1. Fovarosí IV. ker. Tanács korháza, Fertőző osztály.
(HEPATITIS blood)
(IRON blood)
(COPPER blood)
(TRANSAMINASES blood)

L 34240-66

ACC NR: AP6024805

SOURCE CODE: CZ/0049/66/000/003/0219/0234

AUTHOR: Szarka, Stefan (Graduate physicist; Bratislava); Kutka, Mikulas (Doctor of medicine; Candidate of sciences; Bratislava) 40

ORG: [Szarka] Department of Numerical Mathematics, Faculty of Natural Sciences, Comenius University, Bratislava (Katedra numerickej matematiky Prirodovedeckej fakulty Univerzity Komenskeho); [Kutka] Endocrinological Institute, Slovak Academy of Sciences, Bratislava (Endokrinologicky ustav Slovenskej akademie vied) B

TITLE: Study of ²²kidney functions from the aspect of hippuran kinetics in the organism by means of an analog computer

SOURCE: Biologia, no. 3, 1966, 219-234

TOPIC TAGS: genitourinary system, analog computer, biologic computer, mathematic model

ABSTRACT: The applications of analog computers in biology are discussed. The use and the solution of differential equations in biological problems are reviewed. Solution of differential equations on an analog computer is described. A mathematical model of the kinetics of radiohippuran in the organism and its solution by an analog computer are presented. Theoretical curves and experimentally obtained renograms are compared. Orig. art. has: 19 figures and 16 formulas. [JPRS: 35,814]

SUB CODE: 06, 09 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 010

Card 1/1 *MB*

SZARKA, Z.

Science

"GEODEZIA ES KARTOGRAFIA"

Application of matrix computation in compensatory computation (To be contd.) p. 279

Vol. 10, No. 4, 1958

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 4, April 1959
Unclass.

JARNUSZKIEWICZ, I.A.; MORZYCKA, M.; SYM, E.A.; SZARKOWSKA, L.

Influence of osmotic pressure on the carbohydrate metabolism of strain
V₁ of *Eberthella typhosa*; First report. Bull. State Inst. Marine Trop.
M. Gdansk 3 no.1-2:49-55 1950. (CLML 20:7)

1. Of the State Institute of Marine and Tropical Medicine, Gdansk.

SZARKOWSKA, I.

Investigation on metabolites of tubercle bacillus, human type H 37 R..
grown in synthetic glucose medium. Acta physiol. polon. 3 Suppl. 3:
250-252 1952. (CML 24:1)

1. Of the Institute of Physiological Chemistry (Head--Prof. J. Heller,
M.D.) of Warsaw Medical Academy.

LASSOTA, Z.; GLEBICKI, T.; SZARKOWSKA, L.; SZARKOWSKI, J.

Effect of antituberculous substances on *Mycobacterium tuberculosis*
studies in the Sym's apparatus. *Gruslica* 20:6 Suppl. 2:98-100 1952.
(CML 24:2)

1. Warsaw.

Szarkowska

POLON

✓ Malic acid formation in various strains of mycobacteria.
L. Szarkowska and P. Szafranski (Państwowy Zakład Hig.
Warsaw). *Acta Biochim. Polon.* 1, 225-9 (1954).—*Mycobacterium phlei*, strain 276, *M. tuberculosis* var. *bovis*, and BCG formed an av. 1.7, 3.1, 4.0, 0.1, and 0.5 mg. % malic acid/g. dry cells. *M. tuberculosis* H37Rv cultures gave inconsistent results.
I. Z. Roberts

Szarkowska

POLON

✓ Succinic acid as metabolic product in Mycobacterium H37Rv cultures. Ludmila Szarkowska (Państwowy Zakład Hig., Warsaw). *Acta Biochim. Polon.* 1, 249-58(1954).—
Mycobacterium H37Rv (1), growing on synthetic medium contg. glucose as C source, liberates succinic acid in the medium. No fumaric acid is found. 1, growing on glutamic acid or succinic acid as the only C source, forms malic acid.
I. Z. Roberts

SZARKOWSKA, L.

LASSOTA, Z.; SZAFRANSKI, P.; SZARKOWSKA, L.; SZARKOWSKI, J.W.

Caloric and material balance of Mycobacterium phlei. Acta physiol.
polon. 5 no.4:601-602 1954.

1. Z Zakladu Biochemii PAN i Zakladu Chemii Fizjologicznej Akademii
Medycznej w Warszawie. Kierownik: prof. dr J.Heller.
(MYCOBACTERIUM
phlei, caloric & material balance)

SZARKOWSKA, L.; SZAFRANSKI, P.

Comparative studies on synthesis of malic acid by various strains of Mycobacterium. Acta physiol. polon. 5 no.4:602-604 1954.

1. Z Działu Biochemii Państwowego Zakładu Higieny w Warszawie.
Z Zakładu Chemii Fizjologicznej Akademii Medycznej w Warszawie.
Kierownik: prof. dr J. Heller.

(MYCOBACTERIUM, metabolism,
malic acid, synthesis by various types)

(MALATES, metabolism,
Mycobact., synthesis by various types)

SZARKOWSKA, L.
SZAFRANSKI, P.; SZARKOWSKA, L.

Studies on infiltration by microorganisms. Acta physiol. polon. 5
no.4:604-605 1954.

1. Z Zakładu Biochemii PAN, Warszawa i Zakładu Chemii Fizjologicznej
Akademii Medycznej w Warszawie. Kierownik: prof. dr J.Heller.
(MYCOBACTERIUM,
phlei, infiltration mechanism)

SZAFRANSKI, Przemyslaw; SZARKOWSKA, Ludmila

Infiltration of cells in microorganisms. Acta biochim.polon.
2 no.2:199-211 1955.

1. Z Zakladu Biochemii Polskiej Akademii Nau w Warszawie.
Kierownik: Prof. dr Jozef Heller.
(BACTERIA,
infiltration of bact.cell)

SZARKOWSKA, L.

Carbon metabolism of mycobacterium. Z. Lassota, P. Szafranski, L. Szarkowska, and J. W. Szarkowski. *Bull. acad. polon. sci., Classe II* 3, 11-14(1955)(in English).— The identification of the metabolic products and their respective quantities in cultures of various virulent and nonvirulent strains of *Mycobacterium* is detailed. The microorganisms cultivated on the surface of a known quantity of modified synthetic medium DKG were filtered off, desiccated at 105°, and the dry mass detd. The post-culture media was concd. and extd. The Et₂O ext. of the concentrate gave malic acid (I) which was detd. colorimetrically. Double extn. of the concentrate with EtOH and Et₂O gave citric acid (II), which was detd. colorimetrically, while oxalic acid (III) was detd. after pptg. it as a Ca salt from the concentrate. The results of the quant. detn. of I, II, and III are tabulated for the various strains used. Further studies concerning the part played by I, II, and III showed (1) a 200 to 300% increased production of I in a media contg. either succinic or glutamic acids as the sole source of C in a culture of *M. tuberculosis* var. *hirsinis* H37 Rv. (2) an equil. between I contained in *Mycobacterium* strain 279 and its coher. in the medium despite the continuous removal of I from the media. (3) A 200 and 300% increase in the production of III, when 2 or 3 g. of AcOH was added to 160 ml. media on which *M. phlei* was cultivated. (4) II was utilized in a definite relation, by both developing and by mature, starving cells of *M. phlei*, per g. of the dry mass of bacteria. S. H.

(3)

SZARKOWSKA, L.

MD 1691. Infiltrating of micro-organisms. P. Szafranski and L. Szarkowska Bull. Acad. Polon Sci., 1955, 3, 45-49 (Inst. of Biochem. Polish Acad. of Sci.).—A method is described which permits the introduction of normally non-diffusing substances into cells and also their removal without cell damage. E. C. BURTEWORTH.

(1)

BAGDASARIAN, G. S.; GLEBICKI, T.; LASSOTA, Z.; SZARKOWSKA, L.;
SZARKOWSKI, J.

Effect of tuberculostatic agents on metabolism of acid-fast
bacilli. Report I. Influence on metabolism investigated in
Sym's microapparatus. Gruzlica 23 no.12:841-851 Dec 55.

1. Z Zakladu Biochemii Instytutu Gruzlicy w Warszawie. Kierownik:
prof. dr. G. S. Bagdasarian. Dyrektor: prof. dr. J. Misiewicz,
Warszawa, ul. Plocka 26.

(MYCOBACTERIUM TUBERCULOSIS, eff. of drugs on
antituberc. drugs, on metab., investigation in
Sym's microappar.)

(BACTERIOLOGY, appar. and instruments
Sym's microappar., in determ. of antituberc. drug
eff. on metab. of M. tuberc.)

SZARKOVSKA, L.

POLAND / General and Specialized Zoology. Insects. P
Physiology and Toxicology.

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 44722

Authors : Heller, I.; Szarkovska, L.

Inst : Polish Academy of Sciences

Title : The Study of Quinonic Respiration in Insects.

Orig Pub : Byul. Pol'skoy AN, 1956, Otd. 2, 4, No. 10,
355-360.

Abstract : The presence of quinone dehydrogenase in tissue homogenates of *Celerio euphorbiae* pupae and moths was determined. The homogenate and paraquinone were added to the reestablished alcoholdehydrogenasecozymase from brewer's yeast. The rapidity of cozymase oxidation was spectrophotometrically determined by the drop in absorption at 310 mu. Absorption at 245 mu, which was

Card 1/2

SZARKOWSKA, L.

P-quinone reductase in *Celerio euphorbiae* L. Acta biochim.
polon. 3 no.4:511-519 1956.

1. Z Pracowni Biochemii Ewolucyjnej Zakladu Biochemii PAN
Kierownik pracowni prof. dr. Irena Mochnacka.

(DEHYDROGENASES,

p-quinone reductase in *Celerio euphorbiae* (Pol))

(MOTHS,

Celerio euphorbiae, p-quinone reductase in (Pol))

SZARKOWSKA, L.

HELLER, J.; SZAFRANSKI, P.; SZARKOWSKA, L.; SZARKOWSKI, J.W.

Energy balance in growth of *Mycobacterium tuberculosis* H37Rv.
Acta biochim. polon. 4 no.1:33-39 1957.

1. Z Zakladu Chemii Fiziologicznej Akademii Medycznej w Warszawie
Kierownik: prof. dr J. Heller.

(MYCOBACTERIUM TUBERCULOSIS, metabolism,
calorimetric determ. of energy balance in growth
of H37Rv strain (Pol))

SZARKOWSKA, L.; PORĘBSKA, Z.

Arginase in *Celerio euphorbiae*. Acta biochim.polon. 6 no.3: 273-276
'59.

1. Instytut Biochemii i Biofizyki PAN i Zakład Chemii Fizjologicznej
A.M. Warszawa. Kierownik: prof.dr. J. Heller.
(NUCLEASES metab.)
(INSECTS)

MICHALEK, Hanna; SZARKOWSKA, Ludmila

The quinone-amino acid complexes and polyphenolase. Acta
biochim.polon. 6 no.4:399-409 '59.

1. Zaklad Chemii Fizjologicznej AM, Instytut Biochemii i Biofizyki
PAN, Warszawa Kierownik: Prof. dr Jozef Heller.

(QUINONES chem)

(AMINO ACIDS chem)

(OXIDASES chem)

PETRYSZYN, C.; SZARKOWSKA, L.

Trehalase activity during metamorphosis of the hawk moth *Celerio euphorbiae* L. *Bul Ac Pol biol* 7 no.12:491-493 '59. (EEAI 9:12)

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences. Presented by J.Heller.
(HAWK MOTHS) (CELERIO EUPHORBIAE) (TREHALASE)

SZARKOWSKA, Ludmila

Coenzyme Q (ubiquinone). Postepy biochem. 6 no.3:323-340 '60.
(QUINONES)

SZARKOWSKA, L.; MICHALEK, H.

Ubiquinone in insects. Bul Ac Pol biol 8 no.10:429-432 '60.
(EEAI 10:9)

1. Institute of Biochemistry and Biophysics, Polish Academy of
Sciences and Department of Physiological Chemistry, School of Medicine;
Warsaw. Presented by J. Heller.

(Ubiquinones) (Insects)

SZARKOWSKA, Ludmila; HELLER, J.

Studies on coenzyme Q reduction. Acta biochim. polon. 8 no.4:437-447 '61.

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences, and Department of Physiological Chemistry, Medical School, Warszawa.

(QUINONES chem)

SZARKOWSKA, Ludmila; ERECINSKA, Maria

Energy-linked reduction of the mitochondrial nicotinamide-adenine dinucleotides by choline and sarcosine. Acta biochim. Pol. 12 no.2:179-186 '65

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warszawa.

MECINSKA, Maria; SZANKOWSKA, Ludmila [deceased].

The influence of energy on the reduction of ubiquinone in
ox heart mitochondria. Acta biochim. Pol. 12 no.4:291-297
1965.

1. Institute of Biochemistry and Biophysics, Polish Academy
of Sciences, Warszawa.

DRABINOWSKA, Alicja K.; SZARONSKA, Irena [deceased]

The reduction of ubiquinone in rat liver mitochondria associated with the oxidation of choline. Acta biochim. Pol. 12 no.4:387-394 '65.

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warszawa.

SZARKOWSKA-SZPACZEK, Walentyna

The preparation and configuration of hexahydro-homo-isophthalic acid. Roczniki chemii 36 no.2:235-241 '62.

— SZARKOWSKI, J.W.

POL.

✓ Quantitative determination of oxalic acid in *Mycobacterium* cultures. J. W. Szarkowski State Inst. Hyg., Warsaw. *Bull. Inst. Hyg. (Warsz.)* 17, 2, 97 (1934). — When grown in a synthetic medium, *M. phlei* produced 2.0 mg. of oxalic acid/g. of dry cells; *M. tuberculosis* var. *hominis* 3.1 mg.; *M. tuberculosis* var. *bovis* 5.9 mg.; *M. avium* 8.0 mg.; and *Mycobacterium* 270, 1.1 mg. The acid was detected by oxidation with permanganate after being added as the calcium form oxalate culture filtrates. A. Thorpe.

LASSOTA, Z.; GLEBICKI, T.; SZARKOWSKA, L.; SZARKOWSKI, J.

Effect of antituberculous substances on *Mycobacterium tuberculosis*
studies in the Sym's apparatus. Gruslica 20:6 Suppl. 2:98-100 1952.
(CJML 24:2)

1. Warsaw.

SZARKOWSKI, J.W.

LASSOTA, Z.; SZAFRANSKI, P.; SZARKOWSKA, L.; SZARKOWSKI, J.W.

Caloric and material balance of Mycobacterium phlei. Acta physiol.
polon. 5 no.4:601-602 1954.

1. Z Zakładu Biochemii PAN i Zakładu Chemii Fizjologicznej Akademii
Medycznej w Warszawie. Kierownik: prof. dr J.Heller.
(MYCOBACTERIUM
phlei, caloric & material balance)

SZARKOWSKI, Jan W.

Effect of acetic acid on formation of oxalic acid in metabolism of
Mycobacterium phlei. Acta physiol. polon. 5 no.4:607-608 1954.

1. Z Zakladu Biochemii PAN, Warszawa i Zakladu Chemii Fizjologicznej
Akademii Medycznej w Warszawie. Kierownik: prof. dr J. Heller.

(MYCOBACTERIUM,

phlei, oxalic acid synthesis, eff. of acetic acid)

(ACETIC ACID, effects,

on *Mycobact. phlei* synthesis of oxalic acid)

(OXALATES, metabolism,

Mycobact. phlei, eff. of acetic acid)

SZARKOWSKI, J. W.

Carbon metabolism of mycobacterium. Z. Lassota, P. Szulfranski, L. Szarkowska, and J. W. Szarkowski. Bull. Acad. Polon. Sci., Classe II 3, 11-14 (1957) (in English).—The identification of the metabolic products and their respective quantities in cultures of various virulent and nonvirulent strains of *Mycobacterium* is detailed. The microorganisms cultivated on the surface of a known quantity of modified synthetic medium DKG were filtered off, desiccated at 105°, and the dry mass detd. The post-culture media was concd. and extd. The Et₂O ext. of the concentrate gave malic acid (I) which was detd. colorimetrically. Double extn. of the concentrate with EtOH and Et₂O gave citric acid (II), which was detd. colorimetrically, while oxalic acid (III) was detd. after pptg. it as a Ca salt from the concentrate. The results of the quant. detn. of I, II, and III are tabulated for the various strains used. Further studies concerning the part played by I, II, and III showed (1) a 200 to 300% increased production of I in a media contg. either succinic or glutamic acids as the sole source of C in a culture of *M. tuberculosis* var. *hominis* H37 Rv. (2) an equal; between I contained in *Mycobacterium* strain 279 and its copen. in the medium despite the continuous removal of I from the media. (3) A 200 and 300% increase in the production of III, when 2 or 3 g. of AcOH was added to 160 ml. media on which *M. phlei* was cultivated. (4) II was utilized in a definite relation, by both developing and by mature, starving cells of *M. phlei*, per g. of the dry mass of bacteria. S. H.

(3)

BAGDASARIAN, G. S.; GLEBICKI, T.; LASSOTA, Z.; SZARKOWSKA, L.;
SZARKOWSKI, J.

~~XXXXXXXXXXXX~~
Effect of tuberculostatic agents on metabolism of acid-fast
bacilli. Report I. Influence on metabolism investigated in
Sym's microapparatus. Gruzlica 23 no.12:841-851 Dec 55.

1. Z Zakladu Biochemii Instytutu Gruzlicy w Warszawie. Kierownik:
prof. dr. G. S. Bagdasarian. Dyrektor: prof. dr. J. Misiewicz,
Warszawa, ul. Plocka 26.

(MYCOBACTERIUM TUBERCULOSIS, eff. of drugs on
antituberc. drugs, on metab., investigation in
Sym's microappar.)

(BACTERIOLOGY, appar. and instruments
Sym's microappar., in determ. of antituberc. drug
eff. on metab. of M. tuberc.)

SZARKOWSKI, J.

POLAND / Microbiology. General Microbiology. Physiol-
ogy and Biochemistry.

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5469.

Author : Koller, I.; Szafrenski, P.; Szarkowska, L.;
Szarkowski, J.

Inst : Polish AS.

Title : Energy Balance in Mycobacterium H 37 Rv.

Orig Pub: Byul. Pol'skoy AN, 1958, Otd. 2, 4, No 18, 435-
439.

Abstract: No abstract.

Card 1/1

15

POLAND/Plant Physiology - Respiration and Metabolism.

I

Abs Jour : Ref Zhur Biol., No 12, 1958, 53263

Author : Szarkowski, J.W.

Inst : -

Title : Study of Respiration in Wheat Sprouts

Orig Pub : Acta biochim. polon., 1956, 3, No 4, 529-537

Abstract : The oxygen consumption during the respiration of the above-ground parts of wheat sprouts, as determined by the Warburg method, was greater in the first three days (4500 ml in 1 g crude weight), then decreased (to 1200 ml) and maintained this level up to the 9th day inclusively. Moistening the wheat seeds with 0.1, 0.3, 0.6, and 0.9% solutions of potassium ferricyanide for 48 hours did not affect the respiration rate in the germinating seeds. Solutions of thiourea (0.0001, 0.01, and 0.1 M) inhibited further growth of 4-day-old wheat sprouts which were cultivated in distilled water in proportional concentrations.

Card 1/2

✓ 1961. Respiration of wheat seedlings. J. W. Szarkowski *Bull. Acad. polon. Sci.*, 1956, 4, 371—374 (Dep. of Evolutional Biochem., Inst. of Biochem., Polish Academy of Sciences, Warsaw, Poland).
The rate of respiration of wheat seedlings is rapid during the first few days of growth, but is most constant after the 5th day. Hence seedlings 3—5 days old are the most suitable for respiration studies. The concentration of oxygen in the air does not influence respiration rate of seedlings. Seed, sgs placed in thiocurea soln. show a decreased respiration rate and growth rate.

E. M. RATTENSURY

SZARKOWSKI, J. W.

HELLER, J.; SZAFRANSKI, P.; SZARKOWSKA, L.; SZARKOWSKI, J.W.

Energy balance in growth of *Mycobacterium tuberculosis* H37Rv.
Acta biochim. polon. 4 no.1:33-39 1957.

1. Z Zakladu Chemii Fiziologicznej Akademii Medycznej w Warszawie
Kierownik: prof. dr J. Heller.

(MYCOBACTERIUM TUBERCULOSIS, metabolism,
calorimetric determ. of energy balance in growth
of H37Rv strain (Pol))

SZARNOSEKI, J.W.

Activation of rye seed tyrosinase. Acta biochim. polon. 4 no.2:
129-134 1957.

1. Z Instytutu Biochemii i Biofizyki PAN w Warszawie Ekklad Biochemii.
Kierownik: Prof. dr I. Mochnacka.

(OXIDASES

tyrosinase from rye seeds, demonstration of monophenol
& polyphenol oxidase activities in seed extracts at
various intervals after harvest (Pol))

(GRAIN, metab.

rye, demonstration of monophenol & polyphenol oxidase
activities of tyrosinase in seed extracts at various
intervals after harvest (Pol))