

CZABAK, Orest

Analysis of fetal abnormalities with special consideration on some pathogenic factors. Ginek. pol. no.4:425-434 '62.

1. Z II Kliniki Położnictwa i Chorob Kobięcych AM w Warszawie Kierownik:  
Kliniki: prof. dr med. I. Roszkowski.  
(PREGNANCY COMPLICATIONS) (ABNORMALITIES)

CZABAN, W.; PAWLOWSKI, Z.

Physiopathology of focal infection of dental origin and its clinical picture. Polskie arch. med. wewn. 25 no.6:1163-1176 1955.

1. Z III Kliniki Chor. Wewn. A.M. w Lodzi. Kierownik: prof. dr. med. W. Markert z III Kliniki Chir. A.M. w Lodzi. Kierownik: prof. dr. med. W. Tomaszewicz, Lodz, ul. Kopcinskiego 34.

(FOCAL INFECTION,  
dent. (Pol))

(TEETH, diseases,  
focal infect. (Pol))

CZABAN, W.

Effect of the focus of infection on human physiopathology. Polski tygod. lek 7 no. 19:614-616 12 May 1952. (CINL 22:5)

1. Of the Third Internal Clinic (Head--Prof. W. Markert, M.D.) of Lodz Medical Academy.

ZABLOCKI, Bernard; KOTELKO, Krystyna, GOSCICKI, Janusz, CZABAN, Wanda

Passive hemagglutination reactions with sera from convalescent children after rheumatic fever by using 6 new antigenic fractions isolated from streptococcus group A. *Pediat. polska* 33 no.2:165-170 Feb 58.

1. Z Zakladu Mikrobiologii Szczegolowej Univercytetu Lodzkiego  
Kierownik: prof. dr B. Zablocki. Adres: Lodz, Al. Kosciuszko 52 m.8).

(RHEUMATIC FEVER, immunol

passive hemagglutination reaction with convalescent serum using antigenic fractions from streptoc. A (Pol))

(HEMAGGLUTINATION,

passive hemagglutination with convalescent serum from rheum. fever using antigenic fractions from streptoc. A. (Pol))

ZAHOR, Z.; CZABANOVA, V.: techniky spolupracovala MACHOVA, M.

Spontaneous medical calcinosis and arteriosclerosis of the aorta  
in female rats following repeated pregnancies. Sborn. lek. 64  
no.12:353-357 D '62.

1. II patologicko-anatomicky ustav fakulty vseobecneho lekarstvi University  
Karlovy v Praze, prednosta prof. dr. V. Jedlicka.

(PREGNANCY ANIMAL) (AORTIC DISEASES)  
(ARTERIOSCLEROSIS) (CALCIFICATION)

ZAHOR,Z.; CZABANOVA,V.

Malformations of rat aortas due to low-dosage getal lathyrisim.  
Cor vasa 6 no.1:35-43 '64

1. The Second Department of Pathology, Medical Faculty, Charles  
University, Prague.

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**CZABANOWSKI, J.**

Thorn-Bayles test in the determination of adrenal insufficiency in diphtheria. *Pediat. polska* 27 no. 9:1029-1040 Sept 1952. (GLML 23:3)

1. Of the Pediatric Clinic (Head--Prof. W. Bujak, M. D.) of Krakow Medical Academy.

**CZABANOWSKI, Juliusz**

Thrombophlebitis of vena lienalis in view of a case observation.  
Polski tygod.lek. 10 no.25:838-840 20 June '55.

1. Z Oddziału Chorob Wewnętrznych Szpitala Miejskiego Nr.1 w  
Bytomiu; dyrektor Szpitala: dr. W.Kubisty; ordynator Oddziału:  
dr. Z. Młynarski) Krakow, ul.18 Stycznia 11/20.

(SPLEEN, blood supply  
splenic vein thrombophlebitis)  
(THROMBOPHLEBITIS  
splenic vein)



CZABANOWSKI, Juliusz

URNAME, Given Names

(2)

Country: Poland

Academic Degrees: not given

Division of Internal Diseases (Oddzial Chorob Wewnetrznych),  
Affiliation: Municipal Hospital No. One (Szpital Miejski No 1.), Bytom;

Director: W. KUBISTY, Dr. med; Ordynator: Z. MLYNARSKI, Dr. med  
Source: Warsaw, Przegląd Lekarski, Vol XVII, Ser II, No 8, 1961, pp 308-309.

Data: "Diagnostic Difficulties of Endocarditis."

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CZABANSKI, B., mgr. inz.

Frequency converter for three-phase current. Mechanik 35  
no.5:301-302 My '62.

1. Jarocinska Fabryka Obrabiarek, Jarocin.

CSASZAR, Akos; HAJOS, Gyorgy; HEPPEs, Aladar; CZACH, Laszlo; HAJNA, Janos;  
FRIED, Ervin

Solving mathematical problems. Mat lapok 15 no.1/3:242-246 '64

1. Editor, "Mathematikai Lapok" (for Hajos).

20035

9,4300 (and 1035, 1150, 1160)

P/47/60/011/002/001/003  
D21/D304

AUTHOR: Czachor, Andrzej

TITLE: A survey of methods for measuring the lifetime of excess minority carriers in germanium and silicon

PERIODICAL: Postępy fizyki, v. 11, no. 2, 1960, 169-190

TEXT: This is a critical survey of the more important methods of measuring the lifetime of minority carriers. The article first provides a short introduction to the theory of semiconductors. The n-type of semiconductor is used as a model in the theoretical considerations of the lifetime  $\tau$  of the excess minority carriers. The author states that the behavior of the excess holes in a semiconductor is fully described by the equation of continuity, the simple form of which, as given by Eq. (1)

$$\frac{\partial p}{\partial t} = g - \frac{p}{\tau} + D_p \nabla^2 p$$

(1)

X

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he considers to be adequate for the purpose of analysis. A certain number of excess electron-hole pairs is introduced into the sample and the concentration  $p$  of holes, i.e. of minority carriers, is measured as a function of either time or space.  $\tau$  is the lifetime,  $D_p$  = diffusion constant,  $g$  = the electron hole pair generation term, usually taken as equal to zero for experimental purposes. As based on Eq. (1), the author divides all known methods of measurements into two groups: a) Methods utilizing solutions of Eq. (1) in the time domain; b) Methods utilizing the space domain of same. Three effects are stated to complicate the methods of measuring the lifetime of minority carriers, and consequently methods of obviating them are discussed: 1) Surface recombination. This effect is responsible for the lifetime  $\tau$  being changed into the effective lifetime  $\tau_{ef}$  as given by Eq. (3)

$$\frac{1}{\tau_{ef}} = \frac{1}{\tau} + \frac{1}{\tau_{surf}}, \quad (3) \quad \checkmark$$

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where  $\frac{1}{\tau_{surf}}$  is the term introduced by the surface recombination.

The notation S for the speed of surface recombination is introduced and some results for the value of s as given by various authors are discussed. The value for s given by S.G. Kalashnikov (Ref. 21: Zhu. Tekh. Fiz. 26, 241, 1956) for n-type germanium, having its surface finished with 30 % H<sub>2</sub>O<sub>2</sub>, was approximately 50 cm/sec. 2) Trapping and non-linearity of the collector signal.

The theory of trapping and various trapping models are discussed, including that of S.G. Kalashnikov (Ref. 21: Op.cit.), who treated the trapping effect as the combined effect of several trapping layers. The non-linear dependence between the signal amplitude and the minority carrier concentration in the vicinity of the collector contact is stated to occur both in germanium and silicon and is due to the fact that the concentration of minority carriers near the collector is too small. To obviate the difficulty of measuring the lifetime of excess carriers, a constant illumination of

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the contact region is required. According to G.N. Galkin and V.S. Vavilov (Ref. 11: Pribory i tekhnika eksperimenta, 4, 52, 1957) and M.I. Iglitsyn, A. Kontsevoy and V. Kudin (Ref. 19: Zhu. Tekh. Fiz. 27, 1425, 1957), the symmetrical signal is obtained when the whole of the sample is being illuminated. The latter group of authors claim that the modulation method of the conductivity of the point contact is immune from the trapping effect and that true lifetimes have been obtained, using the method of light spot in conjunction with the illumination of the whole sample (Ref. 19: Op. cit.). The measurement methods are, as previously mentioned, divided into two main groups based on time dependent effects and stationary (space domain) effects. The time dependent methods are divided into: 1) Measurements of changes in the conductivity of the sample [Abstractor's note: Only English-language references are mentioned]; 2) The delayed pulse methods. Within these N.F. Durrant (Ref. 9: Proc. Phys. Soc. 68B, 562, 1955) and G.N. Galkin and V.S. Vavilov (Ref. 11: Op.cit.) have been using the relation-

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ship of

$$h = h_0 t^{-1/2} \exp \left[ -\frac{t}{\tau} \right], \quad (12)$$

where  $h$  = amplitude of the delayed pulse,  $h_0$  = the amplitude of the original pulse,  $t$  = recombination time,  $t'$  = transit time,  $\tau$  = lifetime of minority carriers. This expression includes the effect of diffusion. 3) Effects due to the rectifying effect of point contacts. First E.M. Pell's method (Ref. 28: Phys. Rev., 90, 270, 1953) is mentioned. The Spitzer method as developed by W.G. Spitzer, T. Firle, M. Culter, R. Shulman, M. Becher (Ref. 37: J. Appl. Phys. 26, 414, 1955) is stated to have been elaborated by M.I. Iglitsyn, A. Kontsevov, V. Kudin and A. Meyer (Ref. 18: Zhu. Tekh. Fiz. 27, 1414, 1957) and M.I. Iglitsyn, A. Kontsevov and V. Kudin (Ref. 19: Op.cit.) both for germanium and silicon. The stationary (space domain) methods are grouped as follows: 1) The light spot method. Various Western authors are cited with the statement that the Haynes-Morton method as quoted by L.B. Valdes

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(Ref. 43: Proc. Instn. Radio Engrs. 40, 1420, 1952) has been also used by A. Swit (Ref. 39: Zesz. nauk. Pol. Warsz. No. 33, 41, 1957), in which the carriers are generated by a light time projected onto the semiconductor surface. 2) The s-c current method. The measuring scheme is given in Fig. 15

Fig. 15.

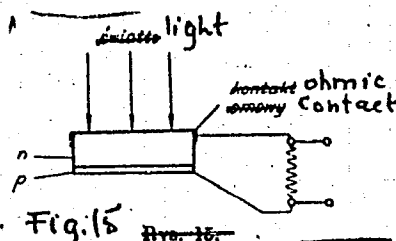


Fig. 15  
Ryo. 15.

The photo diode is shorted by a resistance much smaller than its internal resistance. By measuring the voltage across this resistance the s-c current can be determined. If the carriers are

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generated at the surface, then the s-c current  $i$  is given by Eq.

$$(17) \quad i = 2eg_p \exp \left[ -\frac{d}{L_p} \right]$$

as cited by G. Smirnov (Ref. 36: Zhu. Tekh. Fiz. 27, 2469, 1957), where  $g_p$  = the number of carrier pairs generated in unit time per unit surface,  $d$  = distance from the surface to the p-n junction and  $e$  = the charge of the electron,  $L_p$  = diffusion path. The surveyed methods are all based on the direct comparison of the carrier distribution as obtained experimentally with that evaluated from theory. From among the remaining methods, the most successful has proved to be the photo-magneto electric method as devised by A. Kobus (Ref. 23: Zesz. nauk Pol. Warsz. No. 33, 21, 1957). The results obtained by various authors are summarized in Table III.

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Table III.

Method	Limits of application		mean meas. error
	Ge	Si	
Method of Many (25)	$10^{-6} < \tau$		5 %
photoconductivity decay (38)	$2 \cdot 10^{-6} < \tau$	$10^{-6} < \tau$	5 %
(41)	$\tau < 1.5 \cdot 10^{-3}$	$\tau < 2.5 \cdot 10^{-3}$	
decay of delayed pulse (9)			5 %
(11)		$3 \cdot 10^{-6}$	10 %
(11)		$0.2 \cdot 10^{-6}$	100 %
decay of reverse current (28)	$\tau \sim 10^{-4}$		20 %
decay of conductivity of point contact			

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Table III. (cont'd)

Method	Limits of application		mean meas. error
	Ge	Si	
(18) light spot method			15 %
(43)	$10^{-6} < \tau < 5 \cdot 10^{-4}$		10 %
(16) Harrick Method		$5 \cdot 10^{-7} < \tau < 3 \cdot 10^{-4}$	
(14) s-c current		$\tau < 10^{-3}$	15 %
(36)	$\tau < 2 \cdot 10^{-6}$		
(24)	$10^{-10} < \tau$	$10^{-10} < \tau$	

Ref. 25: A. Many, Proc. Phys. Soc. 67B, 9, 1954; Ref. 38: D.T. Stevenson, R.J. Keyes, J. appl. Phys. 26, 190, 1955; Ref. 41: R.L. Watters, G.W. Ludwig, J. appl. Phys. 27, 489, 1956; Ref. 16: C.A. X

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Hogarth, Proc. Phys. Soc. 69B, 791, 1956; Ref. 14: N.J. Harrick, J. appl. Phys. 27, 1439, 1956; Ref. 24: J.J. Loferski, P. Rappaport, Phys. Rev. 111, 432, 1958; Refs.: 9, 11, 28, 18, 36 and 43: op.cit. In the Appendix, the author discusses briefly contact-forming (metal-to-semiconductor). The definition of a "good" contact is given. It is stated that contact-forming with silicon is more difficult than that with germanium. M.I. Iglitsyn (Ref. 19: Op.cit.) used for n-type silicon, tungsten emitters without forming and phosphorus bronze emitters for p-type, forming them by means of forward current. For collectors he successfully used formed contacts between beryllium bronze whiskers for n-type silicon and tungsten whiskers for p-type. There are discrepancies between the results of M.I. Iglitsyn and other authors. These are due to different criteria of what constitutes a "good" contact. In forming ohmic contacts, the most successful methods are stated to be those used by L.P. Hunter (Ref. 17: Handb. of Sem. Electr. 1955) and M.I. Iglitsyn (Ref. 19: Op.cit.), namely the electrode

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position of a layer of copper, nickel or gold. There are 3 tables, 17 figures and 43 references: 7 Soviet-bloc and 36 non-Soviet-bloc. The references to the English-language publications read as follows: J.S. Blakemore, Phys. Rev. 110, 1301, 1958; S.G. Ellis, J. appl. Phys. 28, 1262, 1957; C. Sach, W. Shockley, Phys. Rev. 108, 1103, 1958; and G.K. Wertheim, Phys. Rev. 109, 1086, 1958.

ASSOCIATION: Instytut badań jądrowych, Warszawa (Warsaw Institute of Nuclear Research).

Card 11/11

S/058/63/000/002/056/070  
A160/A101

AUTHORS: Chroboczek, Jan, Czachor, Andrzej, Piekoszewski, Jerzy

TITLE: The effect of the chemical treatment and neutron irradiation on the surface recombination rate of the carriers in n-type germanium

PERIODICAL: Referativnyy zhurnal, Fizika, no. 2, 1963, 88, abstract 2E590  
("Rept. Inst. badań jądrow. PAN", no. 219/I-B, 1962, 19 pp.,  
illustr., English; summaries in Polish and Russian)

TEXT: An investigation was carried out of the possibility of using the photomagnetic-electric effect for measuring the rate of the surface recombination of S in n-Ge. It is shown that the effect of a foregoing surface treatment on the magnitude of S is comparatively small in case of a careful chemical surface treatment. A few values of S for various etchants are presented. It was established that a change of S (observed by other authors) due to irradiation of the samples by neutrons, is not connected with an increase of the concentration of the surface recombination centers.

[Abstracter's note: Complete translation]

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S/058/63/000/002/053/070  
A160/A101

AUTHORS: Piekoszewski, Jerzy, Czachor, Andrzej

TITLE: Radiation defects in germanium (irradiated by fast neutrons in a reactor) as centers of recombination and capture of carriers

PERIODICAL: Referativnyy zhurnal, Fizika, no. 2, 1963, 88, abstract 2E587  
("Rept. Inst. badań jądrow. PAN", no. 316/I-B, 1962, 11 pp.,  
illust., English; summaries in Polish and Russian)

TEXT: Investigated were the recombination effects in n-Ge irradiated by fast neutrons. The investigated effects are connected with an increase of the life time of the carriers when decreasing the temperature in the region of low temperatures and increasing the temperature in the region of high temperatures (see Referativnyy zhurnal, Fizika, 1962, 4E449). An interpretation was carried out of the experimental results on the basis of a model of multiply charged centers yielding two levels in the forbidden zone.

[Abstracter's note: Complete translation]

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CZACHOR, Andrzej

Longitudinal modes of a linear chain with many neighbor interactions. Acta physica Pol 24 no.3:351-356 S'63.

1. Institute of Nuclear Research, Laboratory II of Nuclear Physics Swierk by Otwock, Poland.

GZACHOR, Andrzej

Fraunhofer diffraction at  $0^{\circ}$  K of field emitted electrons  
passing through an infinite slit. Acta physica Pol 24 no.4:  
477-483 0 '63.

1. Insitute for Nuclear Research, Polish Academy of Sciences,  
Swierk n/Otwock.

ACCESSION NR: AP4026286

P/0047/64/015/001/0031/0045

AUTHOR: Czachor, Andrzej; Plekoszewski, Jerzy

TITLE: Recombination of current carriers in semiconductors

SOURCE: Postepy fizyki, v. 15, no. 1, 1964, 31-45

TOPIC TAGS: current carrier recombination, semiconductor, valence zone, conduction zone, forbidden zone, energy exchange, capture of carrier, surplus carrier, kinetics equation, ionized admixture

ABSTRACT: The recombination of electron and hole, i.e. the passage of an electron from the conductivity zone to the valence zone in a zonal semiconductor model, may take place either directly, or via local levels (connected with recombination centers) in the forbidden interval. The article deals with the second kind of passage, as dominant in conductors with a broad forbidden interval, hence the most general in the transistor materials now employed. Recombination via local levels has two basic aspects: 1) the mechanism of energy exchange and speed in the recombination action and the cross-sections active in the capture of current car-

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riers by the recombination center; 2) the statistical aspect of recombination. The difficulty of determining the energy balance in recombination via local levels has thus far prevented a unified theory explaining the qualitative behavior of cross-sections active in the capture of carriers by the center under various physical conditions. The paper treats the cross-sections in question as established parameters, and considers the statistics of recombination in the contents of the semiconductor, which reveal the relations between the lives of the surplus carriers and such magnitudes as: equivalent concentrations of holes and electrons, concentrations of recombination centers, numbers and positions of local levels in the forbidden interval, concentration of surplus carriers, etc. The review obviously does not embrace all possible cases, but is intended "To acquaint the reader in general with the present methodology of research into the effect of the imperfection of the crystal structure of a semiconductor on the life of carriers." The author formulates kinetics equations for the electron--hole recombination process via local levels connected with recombination centers only, not ionized admixtures (donors, acceptors) or traps. Ionized admixtures can be disregarded as a carrier caught on an admixture level is re-emitted into the zone before the capture of a carrier of opposite sign, and its stay at the local level is short in comparison

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with the average life in the zone. The role and action of trap levels, so important for recombination, is discussed in a separate section. The mechanism of recombination via recombination levels is based on the nearly simultaneous transition of an electron from the conductivity zone and the transition of the hole from the basic zone to this level. There are separate sections on one-level recombination, multi-level recombination, traps, and experimental methods of determining recombination parameters. Orig. art. has: 5 figures, 22 formulas.

ASSOCIATION: Instytut Badan Jadrowych, Warsaw (Nuclear Research Institute)

SUBMITTED: 00

DATE ACQ: 15Apr64

ENCL: 00

SUB CODE: GE, NC

NO REF SOV: 005

OTHER: 022

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CZACHORSKI, W.

The necessity of improving the organization of the State Geologic Service. p. 567.  
(PRZEGLAD GEOLOGICZNY. Vol. 4, no. 12, Dec. 1956, Warszawa, Poland.)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1958.  
Uncl.

CZACHORSKI, Wacław, mgr., inż.

10th anniversary of the Nonferrous Metals Institute. Rudy i metale  
7 no.3:88-90 '62.

1. Podsekretarz Stanu Ministerstwa Przemyslu Ciezkiego.

TARCZYNSKA-KUBIN, Halina; CZACHOROWSKA-WROBLEWSKA, Monika

A case of Bourneville's disease. *Pediatr. pol.* 39 no. 1:851-55  
Ja'64

1. Z Kliniki Neurologii Instytutu Matki i Dziecka w Warszawie  
(Kierownik: dr. med. D. Łukaszczyk-Danilow; Dyrektor: prof. dr.  
med. B. Gernicki) i z Oddziału Neuroinfekcji Miejskiego Szpitala  
Zakaznego nr. 3 w Warszawie (Ordynator: dr. A. Gorow).

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CZACHOROWSKA-WROBLEWSKA, M.; LUKASZEWICZ-DANCOWA, D.

Guillain-Barre syndrome in six-year-old girl treated with ACTH.  
Pediat. polska 29 no.8:307-309 Aug 54.

1. Z Kliniki Chorob Zakaźnych Wieków Dziecięcego Akademii Medycznej  
w Warszawie. Kierownik: prof. dr med. J. Bogdanowicz. Z Miejskiego  
Szpitala Zakaźnego nr 3 w Warszawie. Dyrektor: dr med. E. Pomerska.

(ACTH, therapeutic use,

Guillain-Barre synd. in child.)

(GUILLAIN-BARRE SYNDROME, in infant and child,  
ther., ACTH.)

CZACHOROWSKI, Mieczyslaw, mgr.inz.

Harmonograms of construction elements. Budown wiejskie 14 no.3:28-29 Mr '62

1. WZ PBT Katowice.

CZACHOROWSKI, Stefan, inż.

Preparation of the car service for passenger traffic in 1961.  
Przełk kolej mechan 13 no.5:129-132 My '61.

CZACHOROWSKI, Stefan

Heating the cars in passenger trains. Przegl kolej mechan 14 no.11:  
338-340 N '62.

1. Centralny Zarzad Wagonow, Warszawa.

CZACHOROWSKI, Stefan

Tasks of the car service according to the new passenger train timetable. Przegl kolej mechan 14 no.6:173-174 Je '62.

1. Centralny Zarzad Wagonow, Warszawa.

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P/045/61/020/004/004/004  
B133/B215

24,6700

AUTHORS: Bartke, J., Czachowska, Z., Holyński, R., Rybicki, K.

TITLE: Some examples of interaction of protons of very high energy with heavy nuclei of photographic emulsions

PERIODICAL: Acta Physica Polonica, v. 20, no. 4, 1961, 331-339

TEXT: Three stars produced in collisions with nuclei of a photographic emulsion are described. Although they were probably produced in collisions of nucleons with heavy nuclei, they show double maximum angular distributions in contradiction with the hydrodynamic model. Star I: 26 + 47p; star II: 18 + 41p; and star III: 15 + 78p. Stars I and II have been found in a stack of Ilford G5 emulsions irradiated in the Po valley in 1957, and star III was found in an NIKFI-R emulsion stack irradiated near Moscow in 1958. Target diagrams at distances of 600, 1000, and 1400 from the primary interaction enabled the authors to distinguish between the tracks from the secondary interaction and those from the primary event. The angles between the tracks of all primary particles and the star axis were measured. From these angles  $\theta_i$ , the Lorentz factor of the system can

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be determined as  $\gamma_c = \log \cot \theta_i$ . The primary energy  $E_p = 2Mc^2 \gamma_c^2$  is obtained for nucleon - nucleon collisions in the laboratory system. For nucleon - nucleus collisions  $E_p = 2nMc^2 \gamma_c^2$ , is obtained by using the tunnel model.  $n$  is the number of particles in the tunnel. A measure for the anisotropy in the angular distribution is the dispersion

$$\sigma = \sqrt{\frac{\sum (\log \tan \theta_i - \log \tan \bar{\theta})^2}{n-1}} \quad (A).$$

The values of  $E_p$ ,  $\gamma_c$ , and  $\sigma$  for the events described are presented in Table II

jet	type	$\gamma_c$	$E_p = 2\gamma_c^2 Mc^2$	$E_p = 2n\gamma_c^2 Mc^2$	$\sigma$
I	26+47p	83.1	$1.3 \times 10^{13}$ eV	$5.2 \times 10^{13}$ eV	1.25
II	18+41p	50.1	$6.4 \times 10^{12}$ eV	$2.5 \times 10^{13}$ eV	1.10
III	15+78p	15.3	$4.4 \times 10^{11}$ eV	$1.8 \times 10^{12}$ eV	0.71

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All differential angular distributions show strong anisotropy and two maxima which corresponds to a plateau in the integral distribution, as may be seen from Fig. 2a. The angular distributions of gray and black tracks do not deviate significantly from the isotropic distribution. Feinberg (Feinberg, E. L., Uspekhi fiz. Nauk, 70, 333, (1960). (Presented also at the Moscow and Kiev conferences)) has expressed the opinion that there are two types of nucleon-nucleon collisions, namely, head-on collisions and peripheral collisions. The hydrodynamical model can be applied only to the first type which is obviously present (Milekhin, G. A., Zh. eksper. teor. Fiz., 35, 1185, (1958)). According to this theory, the differential angular distribution can be well described by a Gaussian curve which is compared in Fig. 4 with the values obtained. In a paper by Gierula et al. (Gierula, J., Miesowicz, M., Zielinski, P., Acta phys. Polon., 19, 119 (1960)) where the three stars under consideration have been referred to as 171K, 168K, and 200K, respectively, a measure has been defined for the deviation predicted by the two-center model. The deviation is calculated in these units and according to the Kolmogorov-Smirnov test which, in the authors' view, cannot be applied here (Smirnow, H., Recueil Mathematique N.S. 6, 3 (1959)). It is concluded that the experimental facts do not con-

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firm the hydrodynamical model, whereas a two-center model describes the phenomena very well if the "central" collisions take place in a very small "core". The authors thank Professors M. Mięsowicz and J. Gierula. There are 4 figures, 3 tables, and 11 references: 4 Soviet-bloc and 7 non-Soviet-bloc.

ASSOCIATION: Cosmic Ray Department of the Institute of Nuclear Research  
Cracow - Poland

SUBMITTED: October 24, 1960

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CZACHOWSKI, Jerzy

Injectol applied for penetration through quicksand layers in  
a sunk research pit shaft. Wiadom gorn 12 no.10:334-337  
0 '61.

L 31846-66 T JK

ACC NR: AP6021321 (A) SOURCE CODE: PO/0081/65/019/003/0297/0308 <sup>64</sup>

AUTHOR: Jeljaszewicz, J.; Hawiger, J.; Celinska, T.; Cygankiewicz-Siennicka, M.; Czacka, I.; Dawidowska, I.; Demiroska, E.; Gorska, A.; Gulinski, J.; Hebenstreit, C. Jankiewicz, I.; Jarowa, M. Klimek, H.; Klapkowska, K.; Kobialko, W.; Kokocinska, I. Krol, J.; Lenartowicz, O.; Luft, A.; Malik, K.; Moskwa, Z.; Nocon, T.; Oziemska, E. Pawlowska, I.; Pedrycz, W.; Pernal, C.; Piasecka-Serafin, M.; Plachecka, M.; Pogorzelska, A.; Potocka, Z.; Rodzinski, L.; Roszkowska, H.; Sajkowska, S.; Siennicki, W. Sikora, G.; Szarek, T.; Szymarczyk, A.; Terech, I.; Tomaszko, H. Torym, L.; Wawrzynska, M.; Wencel, Z.; Zodrow, H.

ORG: Institute of Bacteriology, PZH, Warsaw (Zaklad Bakteriologii); Regional and City Epidemiologic Centers, Bialystok, Bydgoszcz, Katowice, Koszalin, Krakow, Lodz, Olaszyn Opole, Poznan, Rzeszow, Warsaw, Wroclaw and Zielona Gora (Wojewodzka i Miejska Stacja Sanitarno-Epidemiologicznych)

TITLE: Antibiotic-resistant strains of Staphylococcus aureus isolated in Poland in the years 1960-1963

SOURCE: Przeglad epidemiologiczny, v. 19, no. 3, 1965, 297-308

TOPIC TAGS: bacteriology, penicillin, streptomycin, erythromycin, neomycin, tetracycline, antibiotic

ABSTRACT: A comparative study of strains of Staphylococcus aureus resistant to penicillin, streptomycin, chloramphenicol, erythromycin, neomycin, oxy and tetracycline was made from the point of view of: source of strains; endocrine secretions; material (hospital or outside) and geographical distribution. Results revealed that least resistant to all antibiotics were strains isolated from food in case of food poisoning, and most resistant, those found in feces. The number of resistant strains was greater in hospital than outside material, except for neomycin. Of the antibiotics the

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L 31846-66

ACC NR: AP6021321

the greatest resistance was shown to penicillin (38.2 percent) and neomycin (17.6 percent). Territorial differences in resistance to antibiotics were statistically significant. Orig. art. has: 15 tables. [JPRS]

SUB CODE: 06/ SUBM DATE: none/ORIG REF: 014/ OTH REF: 001

Card 2/2 JS

CZACKA-NOWAKOWSKA, T. ; ZAJDZIKOWSKA, A.

Workers' councils in the chemical industry.

P. 161. (CHEMIK) (Warszawa, Poland) Vol. 10, no. 6, June 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

CZACZKOWSKI, Ryszard, mgr. inż.; CENDROWSKI, Bronislaw, mgr. inż.

The comimeter projector. Pomlary 8 no.3:146 Mr '62.

RACZKIEWICZ, Mieczyslaw, mgr. inz.; SZUKALSKI, Jan, mgr. inz.;  
CZACZKOWSKI, Ryszard, mgr. inz.

An automatic refractometer for opaque liquids. Pomiar  
8 no.5:249-250 My '62.

L 31845-66 T JK

ACC NR: AP6021322

(A)

SOURCE CODE: PO/0081/65/019/003/0309/0313

AUTHOR: Jeliaszewicz, J.; Hawiger, J.; Czacko, J.; Cygankiewicz-Siennicka, M.; Gorska, A.; Gulinski, J.; Hebenstreit, C.; Klimek, H.; Klapowska, K.; Krol, J.; Lenartowicz, C.; Luft, A.; Moskwa, Z.; Nocon, I.; Pawlowska, I.; Padrycz, W.; Pernal, C.; Pogorzelska, A.; Rodzinski, L.; Siennicki, W.; Sikora, G.; Szymanczyk, I.; Terech, I.; Wawrzynska, M.; Wencel, Z.; Znis, A.

ORIG: Institute of Bacteriology, PZH, Warsaw (Zaklad Bakteriologii); Regional and City Sanitary Epidemiological Centers, Bydgoszcz, Katowice, Kielce, Krakow, Lodz, Opole, Rzeszow, Warsaw, Wroclaw (Wojewodzka i Miejska Stacj Sanitarno-Epidemiologiczna); Bacteriologic Laboratory, No. 3, PSK, Wroclaw (Laboratorium Bakteriologiczny)

TITLE: Antibiotic-resistant strains of Streptococcus viridans, Streptococcus Fecalis, Escherichia coli, Pseudomonas aeruginosa, Proteus species and Klebsiella species, isolated in Poland in 1960-1963

SOURCE: Przegląd epidemiologiczny, v. 19, no. 3, 1965, 309-313

TOPIC TAGS: bacteriology, penicillin, streptomycin, tetracycline, erythromycin, neomycin

ABSTRACT: Sensitivity tests of the above strains were carried out in respect to penicillin, streptomycin, tetracyclines, chloramphenicol, erythromycin and neomycin. It was found that resistance to antibiotics in Streptococci differed from that in Gram-negative bacilli. Streptococcus fecalis was found highly resistant to penicillin and erythromycin. Appreciable resistance to all antibiotics was noted in strains identified as Streptococcus viridans. Resistance varied according to samples and territorial distribution. Experiments were conducted in 11 centers throughout the country simultaneously; results were compared with those obtained in an identical experimental series in a single hospital environment. Orig. art. has: 2 tables. JPRS

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

Card 1/1 JS



CZACZYNSKI, S.

Building on collective farms.

P. 10 (BUDOWNICTWO WIEJSKIE) Poland, Vol. 8, No. 6, June 1966

SO: Monthly Index of East European Accessions (AMEI) Vol. 6, No. 11, November 1967

TARCZY-HORNOCH, A.; CZADECZKY-KARDOSS, Gy.

Band-to-band transformation of the Gauss-Kruger coordinates in the case  
of several junction points. Acta techn Hung 30 no.3/4:259-312 '60.

(EEAI 10:4)

(Coordinates)

POLAND/Chemical Technology - Chemical Products and Their  
Applications - Natural Gases and Petroleum  
Processing. Engine and Rocket Fuels. Lubricants.

H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37527

Author : Czadlinski, A.

Inst : -

Title : Hydrates of Natural Gases.

Orig Pub : Nafta (Polska), 1956, 12, No 6, 155-158

Abstract : The properties of natural gas hydrates (NGH), conditions of formation, their structure and chemical composition are discussed. Mention is made of difficulties which may arise due to the formation of (NGH) when gases are pumped through pipes. Means of prevention of this phenomenon are also indicated. Application of (NGH) for storage, separation and purification of natural gas is considered.  
Bibliography 31 references.

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CZAGACBANIAN, H.; WISNIEWSKI, R.; WERNER, W.

"Bar Conductors in Industrial Power Installations." p.31  
(PRZEGLAD ELEKTROTECHNICZNY Vol. 30, no. 1, Jan. 1954 Warszawa, Poland)

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

CZAGANY, Ferenc, dr.

Report on my journey to Postyen. Orv. hetil. 98 no.28:  
769-778 14 July 57.

(BALNEOLOGY  
Postyen in Czech. (Hun))

CZAGANY, Ferenc Dr. foorvos.

Urgent tasks in modernizing the care of rheumatic patients. Nepegeszse-  
gügy 39 no.3-4:67-71 Mar-Apr 58.

(RHEUMATISM, prev. & control  
in Hungary, organiz. problems in modernizing care serv.  
(Hun))

© Czagany

... and the trend of future development.  
 ... by L. Czagany  
 ... 104--103, April 1951, 4 figs.)  
 Significant progress has been made in the domestic manufacture of furniture  
 ... six years. ... manufacturing enterprises have been  
 ... 26 large factories. To a great extent these factories will produce  
 ... utility furniture ... The utility furniture manufact-  
 ... at the same time can be easily handled;  
 ... forms of the people it also makes  
 ... furniture in form, structure and design. Our designers  
 ... providing our libraries and museums with furnishings

CAGANY, L.

CONDUCTING THE WORK OF CAPENTES ENGAGED IN BUILDINGS.

p. 86 (FAIPAR) Budapest, Hungary Vol 7, no 2 June 1957

SO: Monthly Index of East European Accessions (AEEI) Vol. 6 no 11 November 1957



CZAGANYI, Zsuzsa, okleveles gépészmérnök; ADAMECZ, Péterné

Eliminating electrostatic charging appearing in the winding of the Orlon thread. Magy textil 14 no.9:402-403 S '62.

1. Textilipari Kutató Intézet (for Czaganyi).
2. Rakospalotai Kötőtarugyár (for Adamecz).

CZAGANYI, Zsuzsa, gepeszmernok; MAGYAR, Sandor, gepeszmernok.

Eliminating statical electricity generating during the weaving  
of synthetic fibers. Magy textil 14 no.4:156-159 Ap '62

1. Textilipari Kutato Intezet (for Czaganyi).
2. Adria Selyem (for Magyar)

CZAGANYI, Zsuzsa; RODER, Ivan

Measuring the electrostatic charges of various fibrous materials.  
Magy textil 14 no.1:36-40 Ja '62.

1. Textilipari Kutato Intezet munkatarsai.

(Electrostatics) (Textile fibers)

RAMASZEDER, Karoly; CZAHESZ, Ferenc

How does the tension of warp threads depend on the decrease of the back beam diameter during sizing? Magy textil 13 no.9:393-395 S '61.

1. "Magyar Textiltechnika" szerkeszto bizottsagi tagja(for Ramaszeder).

**TOBIK, Stanislaw; CZAICKI, Wladyslaw** /

Treatment of early post-resection syndrome (dumping syndrome).  
Polski tygod.lek. 15 no.29:1120-1123 18 J1 '60.

1. Z II Kliniki Chirurgicznej Sl. A.M. w Zabrze; kierownik: prof.  
dr J.Gasinski.

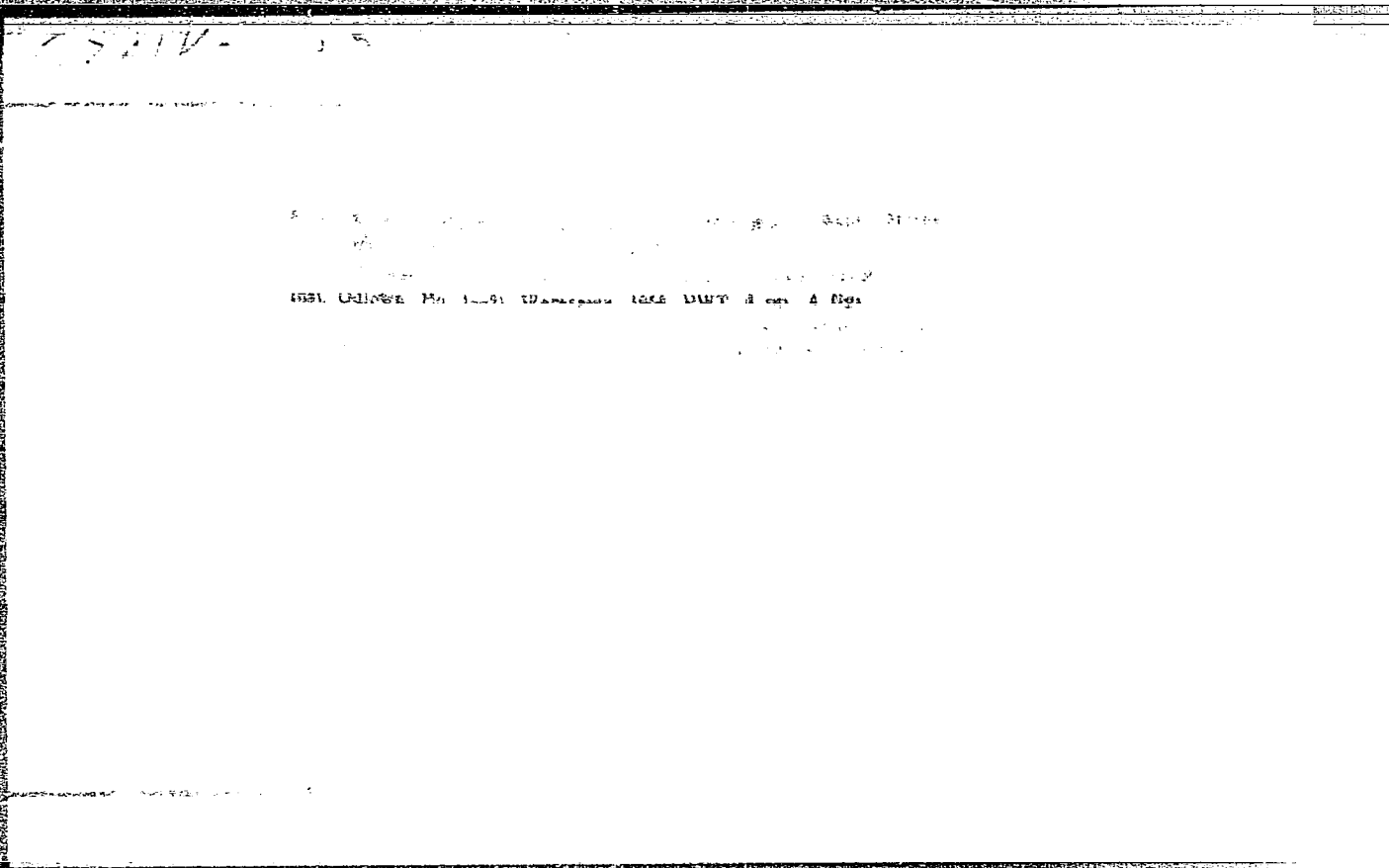
(GASTRECTOMY compl)

CZAIKOWNA, Z.

Poland

A spectrographic method of quantitative determination of magnesium in nodular cast iron.

SO: Foundry Journal, Poland, #2, Feb 1955, Unclassified.



CZAIKOWSKI, Z.

Chemical Abst.  
Vol. 48 No. 8  
Apr. 25, 1954  
Analytical Chemistry

①  
Determination of carbon dioxide, ammonia, and hydrogen sulfide in the air of barns. Z. Czajkowski. *Med. Weterynar.* (Poland) 8, 396 (1952); cf. *Veterinärmedizin* 6, 63-4 (1953). — Large, well-ventilated barns contain an av. of 0.15% CO<sub>2</sub> (max. 0.25%); in poorly ventilated barns, the CO<sub>2</sub> content reaches 0.5% in the early morning. The NH<sub>3</sub> content varies from 0.0005% to 0.0057%; low temp. hinders the formation of NH<sub>3</sub>. In addn., H<sub>2</sub>S was found in 20% of the barns; it reached a max. of 0.0020% which is harmful to animals.  
Rudolph Seiden



CZAINSKA, Irena

Practical use of thermic sensing device for the examination of respiratory routes. Czas. stomat. 18 no.5:569-572 My'65.

1. Z Kliniki Ortodonta Akademii Medycznej w Warszawie (Kierownik: prof. dr. A. Orlik-Grzybowska).

24  
CZANA, A-T.

244  
1

Plant injury due to powdered water-glass. A. T. Canja 14.  
*Pflanz. Pflanz.*, 1891, 53, 54-51).--Deposits of industrial smoke  
containing water-glass caused severe damage on trees and plants.  
Absorption through the leaf resulted in caustic burns.  
G. A. Watson.

PLA 311



KOWALSKI, Edward; GZAJA, Hanna; KOPEC, Maria; ROSZKOWSKI, Stanislaw;  
KAZIMIERCZAK, J.

Biochemical and therapeutic properties of intravenous injections  
produced at the Institute of Hematology. Polskie arch. med. wewn.  
26 no.2:189-208 1956.

1. Z Pracowni Biochemii Klinicznej i Oddz. Chorob Wewnętrznych  
Instytutu Hematologii Kierownik: doc. dr. med. E. Kowalski,  
Warszawa, ul. Chocimska 5, inst. Hemat.

(ANEMIA, HYPOCHROMIC, therapy

saccharated iron oxide, intravenous admin. (Pol))

(IRON, therapeutic use

anemia, hypochromic, intravenous saccharated iron  
oxide admin. (Pol))

CZAJA, Hanna

Effect of blood transfusion on the iron content of human tissues.  
Pat.polska 9 no.2:117-126 Apr.June 58.

1. Z Oddziału Klinicznego Chorob Wewnętrznych i Pracowni, Biochemii  
Klinicznej Instytutu Hematologii Kierownik: doc. dr med. E. Kowalski,  
Dyrektor Instytutu Hematologii: doc. dr med. A. Trojanowski. Adres  
autora: Warszawa, Instytut Hematologii, ul. Chocimska 5.)

(IRON, metab  
tissue content, eff. of blood transfusion (Pol))

(BLOOD TRANSFUSION, eff.  
on iron content of various tissues (Pol))

LOPACIUK, Stanisław; NALECCZYŃSKA, Angela; CZAJA, Hanna; WALEWSKA, Irena;  
PAWELSKI, Sławomir.

Pseudoherpophilia associated with a syndrome of immunohematological  
reactions. Pol. arch. med. wewnet. 34 no.58631-536 '64

1. Z Oddziału Chorob Wewnętrznych i Pracowni Biochemii Klinicznej  
Instytutu Hematologii w Warszawie (Kierownik: doc. dr. med.  
S. Pawelski) oraz Zakładu Serologii ( p.o. Kierownik: lek.  
I. Walewska).

CZAJA, K.

Industrial hygiene and safety in storage battery plants. p. 240.  
(TELE-RADIO. Vol. 2, No. 5, May 1957, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.  
Uncl.



CZAJA, Mieczyslaw

Mieczyslaw Czaja: "Some Reserves in Animal Husbandry," Trybuna Ludu, Warsaw,  
9 Jan 54.

CZAJA, M.

POLAND/General Division - General Problems. Philosophy.  
Methodology.

A-1

Abs Jour : Ref Zhur - Biologiya, No 7, 10 April 1957, 25640

Author : Czaja, M.

Inst : Agricultural Science Committee, Polish Academy of  
Sciences.

Title : The Tasks of the Agricultural Science Committee of the  
Polish Academy of Sciences.

Orig Pub : Postepy nauki rolniczej, 1954, 1, No 3, 5-25

Abst : The development and status of the agricultural sciences  
in the Polish People's Republic are described. It is  
pointed out that two major tasks confront the agricultu-  
ral sciences: the extensive application in practice of  
tested methods, which will make possible the steady in-  
crease of farming productivity; and the further progress  
of basic research with the aim of finding new, more effec-  
tive means of achieving high crop yields and high

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POLAND/General Division General Problems. Philosophy.  
Methodology.

A-1

Abs Jour : Ref Zhur - Biologiya, No 7, 10 April 1957, 25640

standards in animal husbandry. The task of the Agricultural Science Committee of the Academy is to provide constant support to agricultural science organizations, to set up research projects in its member institutes and research stations, to gear scientific work to the needs of the national economy and to the tasks outlined by the party and the government, to train new scientific personnel from among younger people, to organize graduate work, and to promote publications and adult education. The more urgent problems are listed, and those that need the earliest attention are enumerated. The agricultural Science Committee is also planning to organize exchanges of scientific literature with countries of socialist camp and with leading scientific circles in capitalist countries, as well as exchanges on the graduate level and cooperative research with friendly countries.

Card 2/2

CZAJA, Mieczyslaw

Mieczyslaw CZAJA: "An Attempt to Present My Viewpoint" (Proba Okreslenia Stanowiska), Postepy Nauk Rolniczych, No. 3, May/June 55, Warsaw, PWRIL, (A defense of use of Michurin's theories of genetics).

CZAJAKA, J.

Poland/Chemical Technology. Chemical Products and Their Application -- Food industry, I-28

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6672

Author: Czajaka, Jan

Institution: State Foundation of Hygiene

Title: Synaeresis of Sour Milk and Effect of  $\text{NaHCO}_3$  on Its Course

Original

Publication: Roczn. Panstw. zakl. hig., 1956, 7, No 1, 71-78

Abstract: Milk containing 0.01, 0.1, 1 and 2%  $\text{NaHCO}_3$  was inoculated in Schott filters and a determination was made of the amount of whey that collected in measuring cylinders graduated in 0.05 ml. It was found that concentration of  $\text{NaHCO}_3$  does not affect the synaeresis, the coefficient that characterizes the ratio of volume of separated whey to the volume of milk, at 17-19°, is 0.617. The length of time required for the milk to become sour depends on the concentration of  $\text{NaHCO}_3$ . This correlation can be utilized for an approximate determination of adulteration of milk with bicarbonate.

Card 1/1

CZAJCZYNSKI, Z.

Work of electric-arc furnaces for steel founding during the hours of overloading. Pt. 1. (To be contd.) p. 102.

ENERGETYKA. Ministerstwo Energetyki Stalinograd. Vol. 9, no. 2, Mar./Apr. 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress, Vol. 5, no. 7, July 1956.

CZAJCZYNSKI, Z.

Work of electric-arc furnaces for steel founding during the hours of overloading.

pt.2. p. 156  
Vol. 9, no.3, May/June 1955  
ENERGETYKA  
Stalinograd

SO: Monthly List of East European Accessions (EEAL), LC, VOL. 5, no. 2  
Feb. 1956

CZAJCZYNSKI, Z.

Electric arc furnaces for founding steel. Pt. 1. (To be contd.) p. 215.

ENERGETYKA, Vol. 9, No. 4 July/Aug. 1955

(Ministerstwo Energetyki) Stalinograd.

SOURCE: EAST EUROPEAN ACCESSIONS LIST Vol. 5, No. 1 Jan. 1956



CZAJCZYNSKI, Z.

Electric-arc furnaces for founding steel. Pt. 2. p. 275.

ENERGETYKA, Vol. 9, No. 5 Sept./Oct. 1955

(Ministerstwo Energetyki) Stalinogrod

SOURCE: EAST EUROPEAN ACCESSIONS LIST Vol. 5, No. 1

Jan. 1956

02A502YN5K12

CZAJCZYNSKI, Z.

The influence of a steel arc furnace on a feeder network. p.78.

(ENERGETYKA. Vol. 11, No. 2, Mar./Apr, 1957. Warszawa, Poland)

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

MAZUR, M., prof., dr.; CZAJCZYNSKI, Z., inż.

Optimum economic working current of an electric arc steel furnace.  
Przełg elektrotechn 37 no.10:437-440 '61.

(Electric furnaces)

CZAJCZYNSKI, Z., inz.

Unified method for determining losses in steel melting arc furnaces. Przegl elektrotechn 38 no.4:177-180 Ap '62.

CZAJCZYŃSKI, Zdzisław, inż.

Computation diagram for a digital computer used for the calculation of the economically best working conditions of arc furnaces. Inst elektrotech prace 11 no.35:55-78 '63.

1. Zakład Elektrotermii, Instytut Elektrotechniki, Warszawa.

CZAJCZYNSKI, Zdzisław, inż.; MANIKOWSKI, Bogdan, inż.

Calculation of the working characteristics and the characteristic currents of a steel arc furnace by digital computer.  
Inst elektrotech prace 11 no. 36: 43-57 '63.

1. Zakład Elektrotermii, Instytut Elektrotechniki, Warszawa.

SCHWARTZ, Tadeusz, prof. dr; CZAJCZYNSKI, Zdzislaw, inz.

Technical method of calculating the losses of heat from the external surfaces of electric furnaces. Przegl elektrotechn 40 no. 7:341-343 J1 '64.



GZAJCZYNSKI, Zdzislaw, mgr inż.

Optimum state of operation of a steel melting arc furnace.  
Przełł elektrotechn. 41 no.2:77-79 F '65.

The Ninth International Colloquium of the Technical University  
in Ilmenau. *ibid.*:179

1. Institute of Electrical Engineering, Warsaw.

CZAJEWICZ, E.

Y  
D

PTA

1504

691.3:

Czajewicz E. The Use of „Deuba“ System Machines for Accelerating the Aging of Concrete.

„Zastosowanie maszyn systemu „Deuba“ do przyśpieszenia dojrzewania betonu”. Przegląd Budowlany, No. 9, 1951, pp. 403—407. 7 figs., 3 tabs.

Adoption of „Deuba“ machines for heating reinforced concrete ceilings at the NIK Training Centre building at Falenty. Duration of heating — 4 days. The wooden moulds were removed after 11 days. Heating of ceiling constructions in the Ministry of Agriculture and Land Reform building in February, 1951. The moulds were removed after 88 hours of heating, at a tensile strength of 199 kg/cm<sup>2</sup>. Acceleration of the bonding of cement as a result of temperature increase and the presence of carbon dioxide in the combustion products. Advantages — speed of construction, timber economy, possibility of winter working, concurrent drying of walls.

MLEKODAJ, Stanislaw; CZAJKA, Adam

Lobectomy. Postepy high. med. dosw. no.2:43 '60.

1. Z Zakladu Ftyzjochirurgii S. D. L. Sanatorium im dra O. Sokolowskiego  
w Zakopanem Kierownik: prof. dr. Wit. Rzepecki.

(PNEUMONECTOMY)

CZAJKA, Aleksander, mgr. inż.

"Transportation of dangerous and harmful materials; road transport and storing" by Andrzej Mazurkiewicz. Reviewed by Aleksander Czajka. Tech gosp morska 13 no.9:278-279 S'63

1. Centralny Instytut Ochrony Pracy, Zakład Morski, Gdansk.

JANUSZKIEWICZ, Platon; CZAJKA, Andrzej

Radionkow bentonite containing synthetic sands for steel and  
iron casting. Przegł odlew 14 no.3869-74 Mr'64

CZAJKA, ANDRZEJ

POLAND/Chemical Technology - Chemical Products and Their  
Application - Ceramics, Glass, Binders, Concrete.

H-13

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, 8711

Author : Czajka Andrzej

Inst : Institute of Founding

Title : Modified Crucible Method for Determining the Stability  
to Slag of Refractory Materials.

Orig Pub : Prace Inst. odlewn., 1956 (1957), 6, No 4, 25-31

Abstract : A review of indirect and direct methods of determining  
the slag stability of refractory materials, in relation  
to the action of cupola slag, in smelting of pig iron.  
The crucible method which has been standardized in the  
Polish People's Republic (PN/H-04182) was revised and  
made more precise for the purpose of securing more clear-  
ly defined results and excluding errors due to fortuitous

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recorded each time in the same sequence. Areas of

Card 2/3

POLAND/Chemical Technology - Chemical Products and Their  
Application - Ceramics, Glass, Binders, Concrete.

H-13

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, 8711

corrosion of the C, and of slag penetration, which can be clearly seen on the x-ray pictures, are calculated as the mean of data for the three planes, i.e., on the basis of 9 pictures. Results are given, of tests conducted in accordance with the described procedure, for two acidic (sandy-clayey) and three chamotte pastes for coupolas containing 42.3, 39.3 and 30.9%  $Al_2O_3$ .

Card 3/3

CZAJKA, A.

Problems of hoists and conveyers in the studies of the Polish Academy of Sciences.

p. 27 (Ochrona Pracy; Bezpieczenstwo I Higiena Pracy. Vol. 10, no. 6, June 1956.  
Warszaw, Poland)

Monthly Index of East European Accessions (MEAI) LC. Vol. 7, no. 2,  
February 1958



CZAJKA, A.; HELDRICHT, JOZEF; KANDEK, JAN

Bezpieczenstwo i higiena pracy w porcie (Industrial Safety and Hygiene in the Harbor); a book review. p. 341

TECHNIKA I GOSPODARKA MORSKA. (Naczelna Organizacja Techniczna, Instytut Morski i Morski Instytut Rybacki) Gdansk, Poland. Vol 8, no. 11, Nov. 1958

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 8, August, 1959

Uncl.

JANUSZEWICZ, Flaton, doc. mgr inz.; CZAJKA, Andrzej, inz.

Method of determination of the pliability of the sand mix.  
Przeł odlew 12 no.8/9:237-246 Ag-S '62.

.CZAJKA, Bogdan, inż.; TARASIEWICZ, Lech, mgr. inż.

Underground intermediate transistor repeater stations.  
Przełł telekom 35 [i.e. 36] no. 9:264-271 S '63.

CZAJKA, Boleslaw, inz.

Redesign of end winding shields of alternator rotors.  
Energetyka Pol 18 no.10:295-299 O '64.

1. Repair Plant for Power Engineering, Poznan.