

JANOTA-LUKASZEWSKA, Janina; ROMANOWSKI, Wieslaw

Content of gamma-butyric acid in the brain after single and prolonged physical effort. Acta physiol. Pol. 15 no.2:223-227  
Mr-Apr '64.

1. Z Zakładu Fizjologii Instytutu Naukowego Kultury Fizycznej w Warszawie (Kierownik: prof. dr W. Missiure) i z Zakładu Fizjologii Akademii Wychowania Fizycznego w Warszawie (Kierownik: doc. dr W. Romanowski).

ROMANOWSKI, Wieslaw; JANOTA-LUKASZEWSKA, Janina

The role of gamma-aminobutyric acid and l-glutamic acid in the  
"acetylcholine cycle". Acta physiol. polon. 13 no.6:729-740 '62.

1. Zaklad Fizjologii I.N.K.F. w Warszawie Kierownik: prof. dr  
Wl. Miasuro Zaklad Fizjologii A.W.F. w Warszawie Kierownik: doc.  
dr W. Romanowski.

(AMINOBTYRIC ACID) (ACETYLCHOLINE) (BRAIN)  
(GLUTAMATES)

LJBANSKA-TOMASZEWSKA, Leokadia; JANOTA-LUKASZEWSKA, Janina

Effect of physical training on the content of ribonucleic acid in various organs with different forms of protein metabolism. Acta physiol. Pol. 15 no.6:819-829 N-D '64

1. Z Zakładu Fizjologii Pracy Polskiej Akademii Nauk i Zakładu Fizjologii Instytutu Naukowego Kultury Fizycznej w Warszawie (kierownik: prof. dr. Wl. Missiuro).

JANOTIK, JOZEF

Hydromechanical distillation apparatus. Jozef Janotik  
(Jozef Janotik, a skúsený inžinier a vedec z Bratislavy, Slovensko)  
Bratislava, Czech). Chem. Zvesti 9, 186-188, 1955.  
An apparatus suitable for 4 different kinds of distn., direct heating, with steam, under a decreased pressure and with bubbling air or inert gas and with automatic and signaling features and 10 illustrations is described. Jan. Miska

187 91

GORNER, F.; KVASNICOVA, V.; JANOTIK, J.; GRUNT, J.

A simple method for the determination of bacteria from the coli-aerogens group in fresh milk. Bratisl. Lek. Listy 43 no.2:100-107 '62.

1. Z Katedry technickej mikrobiologie a biochemie Slovenskej vysokej školy technickej v Bratislave, veduci prof. dr. P. Nemeč, člen korešp. SAV, zo Slovenskeho kontrolneho a skusobneho ustavu poľnohospodarskeho v Bratislave, riaditeľ inž. M. Lietava, C. Sc., a z Ustavu hygieny v Bratislave, riaditeľ prof. MUDr. P. Mucuch.

(MILK microbiol) (ESCHERICHIA COLI)  
(AEROBACTER AEROGENS)

JANOTKA, Henryk

Measurement of the diameter of the retinal vessels in normal subjects and in hypertension. Klin. oczna 32 no.4:393-402 '62.

1. Z Kliniki Chorob Oczu Kierownik: prof. dr med. M. Wilczek Z I Kliniki Chorob Wewnętrznych AM w Krakowie. Kierownik: prof. dr med. L. Tochowicz.

(HYPERTENSION)

(RETINAL VESSELS)

JANOTKA, Henryk

Retinocele. Klin. oczna 34 no.2:159-163 '64.

Use of a double retractor of our construction for the mechanical dilatation of the pupil in cryo-excretion of cataract.  
Ibid.:183-184

1. Z Kliniki Chorob Oczu Akademii Medycznej w Krakowie (Kierownik: prof. dr med. M. Wilczek).

JANOTKA, Henryk

Noxious effects of smoking. Wiad. lek. 18 no.14:1199-1203  
15 J1 '65.



JANOTKA, Henryk

Effect of some viral infections of developmental eye defects in the fetus. Pol. tyg. lek. 20 no.3:114-115 18 Ja '65

1. Z Kliniki Chorob Oczu Akademii Medycznej w Krakowie (Kierownik: prof. dr. med. Marian Wilczek).

JANOTKA, M.

Therapy of diabetes insipidus with streptomycin and PAS. Bratisl.  
lek.listy 35 no.9:529-532 16 My 55.

1. Z I. internej kliniky LFUK v Bratislave, prednosta akademik  
L.Derer.

(DIABETES INSIPIDUS, therapy,  
streptomycin & PAS)

(STREPTOMYCIN, ther. use,  
diabetes insipidus)

(PARA-AMINOSALICYLIC ACID, ther. use,  
diabetes insipidus)

PECHAN, J.; JANOTKA, M.; KRATKY, I.; ZAJAC, J.

Contribution to the study on capillary permeability in thyrotoxicosis and neurovegetative dystonia. Bratisl. lek. listy 42 no.7:406-411 '62.

1. Z Katedry nemocnicej internej Lek. fak. Univ. Komenskeho,  
veduci prof. MUDr. M. Ondrejicka.  
(HYPERTHYROIDISM physiol) (AUTONOMIC NERVOUS SYSTEM physiol)  
(CAPILLARY PERMEABILITY)

CZECHOSLOVAKIA

J. MOLCAN, A. DUFKOVA and M. JANOTKA, Psychiatry Clinic and First Internal Medicine Clinic (I. interna klinika) Medical Faculty of Comenius University, Bratislava.

"Effects of Psychopharmacologic Drugs on Thyroid Gland in Psychiatric Patients."

Prague, Activitas Nervosa Superior, Vol 5, No 2, May 63; pp 190-191.

Abstract: Studies in 16 psychotic and 13 neurotic women whose thyroid function was carefully studied by 6 tests; then treated 4 weeks with either 2400 mg. meprobamate or 600 mg. chlorpromazine daily. M. decreased thyroid function in 4, increased it in 2; c. decreased it in 2, increased in 4. In psychosis, increase was more frequent; in neurosis, decrease. Table.

1/1

JANOŤKA, M.

CZECHOSLOVAKIA

PECHAN, J; JANOŤKA, M; KOVALCIK, V.

1. Chair of Hospital Internal Medicine of the Medical Faculty of Komensky University (Katedra nemečnicnej internej medicíny Lek. fak. Univ. Komenskeho), Bratislava; 2. Chair of Experimental Pathology and Pharmacology of the Medical Faculty of Komensky University (Katedra experimentalnej patológie a farmakológie Lek. fak. Univ. Komenskeho), Bratislava (for all)

Bratislava, Bratislavske lekarske listy, No 9, 1963, pp 523-528

"Contribution to the Study of Blood Coagulation in Thyrotoxicosis."

PECHAN, J.; JANOTKA, M.; KOVALCIK, V.

Contribution to the study of blood coagulation in thyrotoxicosis. Bratisl. lek. listy 43 Pt. 1 no.9:523-529 '63.

1. Katedra nemocnickej internej medicíny Lek. fak. Univ. Komenského v Bratislave, veduci prof. MUDr. M. Ondrejicka, Katedra experimentalnej patologickej a farmakologickej Lek. fak. Univ. Komenského v Bratislave, veduci doc. MUDr. E. Barta, C. Sc.  
(HYPERTHYROIDISM) (THYROXIN)  
(PROTHROMBIN TIME) (RABBITS)

PECHAN, J.; JANOTKA, M.; HRONEC, A.; KOVALCIK, V.

Effect of experimental thyrotoxicosis on blood coagulation.  
Bratisl. lek. listy 1 no.12:705-710 '64

1. Katedra nemocnicnej internej I. Lek. fak. Univerzity Komenského v Bratislave ( veduci: prof. M.Ondrejicka); Katedra experimentalnej patologic a farmakologic Lek. fak. Univerzity Komenského v Bratislave ( veduci: doc. MUDr. E.Barta, C.Sc.)

HROMEK, A.; JANOTKA, M.

Use of erythrocytes labelled with radioactive chromium Cr51  
in the diagnosis of hemolytic diseases. Bratisl. lek. listy  
44 no. 2: 65-78 '64.

I. I. interna klinika Lek. fak. Univ. Komenského v Bratislave;  
veduci: prof. MUDr. M. Ondrejčka.

\*



KOSKA, M.; JANOTKA, M.

Determination of digestion and absorption of fats, proteins,  
and carbohydrates in patients with total duodenopancreatectomy.  
Bratisl. lek. listy 44 no.5:296-300 '64.

1. Katedra internej mediciny I. Lek. fak. Univ. Komenskeho v  
Bratislave; vedouci prof. MUDr. M. Ondrejicka.

\*

ONDREJICKA, M.; PICHAN, J.; MORAVEC, R.; JANOTKA, M.

Postoperative factors influencing the functional state of the venous and lymphatic system in varicose veins. Bratisl.Lek. Listy 44 no.7:385-391 '64.

1. Katedra nemocnicnej internej I. Lek. fak. Univerzity Komenskeho v Bratislave (veduci prof. MUDr. M. Ondrejicka)  
Laboratorium pre vyskum polybu vody a elektrolytov v organizme Lek. fak. Univerzity Komenskeho v Bratislave (veduci prof. MUDr. M. Ondrejicka) a I. chirurgicka klinika Lek. fak. Univerzity Komenskeho v Bratislave (veduci prof. MUDr. K. Garsky).

MIKULECKY, M.; JANOTKA, M.

Investigation of the hepatobiliary function using rose bengal  
under simple laboratory conditions. Bratisl. lek. listy 45 no.  
4:233-242 31 Ag '65.

1. Katedra internej mediciny I Lekarske fakulty Univerzity  
Komenskeho v Bratislave (veduci prof. MUDr. M. Ondrejicka).

ONDREJICKA, M., prof. MUDr.; JANOTKA, M.; PECHAN, J.

Radioiodine I-131 uptake of the thyroid gland in atherosclerosis.  
Bratisl. lek. listy 45 no.8:474-485 30 Ap '65

1. Katedra internej mediciny I. Lekarske fakulty Univerzity  
Komenskeho v Bratislave (veduci: prof. MUDr. M. Ondrejicka).

PECHAN, J.; JANOTKA, M.

The effect of hexamethonium on the blood supply and functional status of the lymphatic system of the extremities in patients with lymphedema. Bratisl. lek. listy 45 no.10:621-626 31 My'65.

1. Katedra nemocnicnej internej I. Lekarske fakulty Univerzity Komenskeho v Bratislave (veduci: prof. MUDr. M. Ondrejiska).

*Jan Arpa, Olga Janůtková*

Bacterial mycolysis. Jan Arpa and Olga Janůtková (Inst. Food Ind., Bratislava). *Ceskoslov. Biol.* 4, 618-20 (1955); cf. Oxford and Singh, *C.A.* 45, 9611d; Avdievich, *Mikrobiologiya* 22, 38(1954).—Both growing *Penicillium chrysogenum* and residual mycelial mass from penicillin production were lysed by organisms identified as myxobacteria, *Bacillus subtilis*, and closely related spore formers. The growth of the myxobacteria was not inhibited by penicillin (6  $\gamma$ /ml.). Production of fungistatic agents by means of myxobacteria in media contg. spent mycelium as the main nutritional component is suggested. Oldřich Sebek

(1)

JANOTKOVA, O.; LUSCON, S.; ARPAT, J.

Room sterilization in the food industry by ultraviolet light. p. 199

PRUMYSL POTRAVIN. Praha. Vol. 6, no. 4, 1955.

SOURCE: East European Accessions (EEAL), LC, Vol. 5, no. 3, March 1956.

JANOTKOVA, O.: ~~REDACTED~~

SCIENCE

Periodicals: BIOLOGIA Vol. 10, no. 6, 1955

JANOTKOVA, O. ARPAL, J. A penicillin resistant type of highly sensitive test organism Bacillus subtilis. p. 677.

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



YANOTKOVA O.

CZECHOSLOVAKIA/Plant Diseases. Diseases of Cultivated Plants. 0-2

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25384.

Author : Arpai, J., Pol'tin, O., Yanotkova, O.

Inst :

Title : An Investigation of the Appearance and Fungistatic  
Activity of *Trichothecium plasmoparae* Viala et Marsais.  
(Issledovaniye poyavleniya i fungistaticheskogo deystviya  
*Trichothecium plasmoparae* Viala et Marsais )

Orig Pub: Pol' nohospodarstvo, 1957, 4, No 1, 68-87.

Abstract: The pink bloom of *Trichothecium* fungus was observed here and there on grape leaf mildew spots near Bratislava (Czechoslovakia) in 1953 and 1955 from June on, which checked the further spread of disease in an area where the vineyards were very seriously in-

Card : 1/3

CZECHOSLOVAKIA/Plant Diseases. Diseases of Cultivated Plants. 0-2

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25384.

laboratory for plant protection of the Slovakian  
Academy of Sciences.

Card : 3/3

Janot Kova, C.

Country : CZECHOSLOVAKIA H-27  
Category : Chemical Technology. Fermentation Industry  
Abs. Jour : Ref Zhur-Khimiya, No 14, 1959, No 51848  
Author : Arpai, J.; Janotkova, C.  
Institute : -  
Title : Investigation of Yeast Washing

Orig Pub. : Kvasny prumysl, 1958, 4, No 10, 223-229

Abstract : Effect of water washing on quality of yeast (Y) used in breweries was investigated. Comparative evaluation is given for the periodical and continuous washing at 5° and 10° temperature. Advantages of the continuous washing of commercial grade Y are demonstrated. The unwashed Y had lower fermenting activities than those washed by either batch or continuous methods. The generation of CO<sub>2</sub> per hour in the former case comorized 1.10, in the second 1.64, and

Card: 1/2

✓ ANOT KOVA

COUNTRY : Czechoslovakia  
CATEGORY :

S-27

ABS. JOUR. : RZKhim., No. 1959, No. 7289A

AUTHOR : Arca, J.; Janotkova, G.

INVT. :

TITLE : Study of the Washing of Yeast. Part 2.  
Laboratory and Pilot-Plant Experiments on  
Addition of Chemicals and Antibiotics to the

ORIG. PUB. : Kvasny prumysl, 1958, 4, No 11, 249-256

ABSTRACT : On investigation of the effect of various chemicals and antibiotics on pure cultures of yeast (Y), wild yeasts, and extraneous microorganisms of brewer's Y, it was found that addition of chlortetracycline to the wash water accelerates proliferation of Y by about 25%, and the initial stage of fermentation by 18-50%, without affecting the taste of the resultant beer, and imparting at the same time strong bactericidal properties. Part I see RZKhim., 1959, No 11, 51348. -- G. Oshryan.

CARD: 1/1 \* Wash water.

JANOTKOVA, O.; [REDACTED]

TECHNOLOGY

periodicals: PRUMYSL POTRAVIN Vol. 9, no. 10, Oct. 1958

ARPAI, J.; GMITROVA, O.; JANOTKOVA, O. Antibiotics applied as specific inhibitors in the manometric control of the metabolism of baking yeast. p. 530.

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

GINTEROVA, Anastazia; MITTERHAUSZEROVA, Ludmila; JANOTKOVA, Olga

Use of the sedimentation method for determining the baker's yeast agglutination. Prum potravin 14 no.2:97-98 F '63.

1. Ustredny vyskumny ustav potravinarskeho priemyslu, pobacka Bratislava.

GINTEROVA, A.; MITTERHAUSZEROVA, L.; JANGTKOVA, O.

Content of various water forms in baker's yeast in relation to its agglutination. Kvasny prum 10 no. 6:129-131 Je '64.

1. Research Institute of Distillation and Canning Industry, Bratislava.

GINTEROVA, A.; PITTERHAUSZEROVA, I.; JANOTKOVA, O.

Effect of c-fermented mash on yeast agglutination. Kvasny  
prum 10 no.9;207-208 S '64.

1. Research Institute of Distillation and Canning Industry,  
Bratislava.



GINTEROVA, Anastazia; MITTERHAUSZEROVA, Ludmila; JANOTKOVA, Olga.

Fermentation of sugars with agglutinated and nonagglutinated  
baker's yeast. Biologia (Bratisl) 20 no.3:185-188 '65.

1. Vyskumny ustav Liehovarskeho a konzervarenskeho priemyslu  
v Bratislave.

GINTEROVA, A.; MITTERHAUSZEROVA, L.; JANOTKOVA, O.

Some properties of agglutinated bakery yeast. Kvasny prum  
11 no.2:41-43 F '65.

1. Research Institute of the Distilling and Canning Industry,  
Bratislava. Submitted June 18, 1964.

L 14884-66

ACC NR: AP6008343

SOURCE CODE: CZ/0049/55/000/003/0185/0188

AUTHOR: Ginterova, Anastazia (Bratislava); Mitterhauszerova, Ludmila--<sup>20</sup>  
Mittergaustserova, L. (Bratislava); Janotkova, Olga--Janotkova, O. (Bratislava)<sup>13</sup>

ORG: Research Institute of the Alcohol and Food Preserving Industry, Bratislava  
(Vyskumny ustav liehovarskeho a konzervarenskeho priemyslu)

TITLE: Fermentation of sugars by agglutinated and non-agglutinated bakers yeast

SOURCE: Biologia, no. 3, 1965, 185-188

TOPIC TAGS: fermentation, carbohydrate, yeast, food technology, plant metabolism

ABSTRACT: Commercial yeast of the Trencin factory (*S. cerevisiae*) was studied in anaerobic conditions; use of oxygen and production of carbon dioxide were investigated. The same was followed under aerobic conditions. Glucose, sucrose, and maltose were used as substrates. Differences between suspended yeast and yeast that was agglutinated during yeast production were compared. No differences were found in working with glucose and sucrose. In maltose, in a stream of N<sub>2</sub> higher production of CO<sub>2</sub> was shown by agglutinated yeast. Orig. art. has: 3 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: 04Nov64 / ORIG REF: 003 / OTH REF: 003  
Card 1/10

JANOUGH, Fr., MUDr

A reliable principal care of public health as a people's democratic establishment. Cas.lek.cesk. 91 no.8:225-227 22 Feb 52.

(PUBLIC HEALTH,

in Czech., people-democratic principles)

~~FRANTISEK~~ JAVOUCH, F.  
CZECHOSLOVAKIA/Optics - Spectroscopy

K-7

Abs Jour : Ref Zhur - Fizika, No 4, 1958, No 9351

Author : Jarouch Frantisek

Inst : Not Given

Title : Semi-Empirical Method of Calculating the Strengths of the  
Oscillators of Doublet Components

Orig Pub : Ceskosl. casop. casop. fys., 1955, 5, No 2, 139-144

Abstract : See Referat Zhur Fizika, 1957, No 2, 5016.

Card : 1/1

JANOUGH, Frantisek, MUDr.

Discussion on the role of the Czechoslovakian Red Cross in worker's health care. Pracovni lek. 11 no.1-2:82-83 Feb 59.

1. Predseda Ustredniho vyboru Ceskoslovenskeho cerveneho krize.  
(INDUSTRIAL HYGIENE,  
in Czech., Red Cross serv. (Cz))

JANOUGH, F

TSIN CHEN-ZHUY [Ch'ing Ch'eng-juí]; YANOUGH, F. [Janouch, F.]

[Internal bremsstrahlung in  $\beta$ -decay of polarized nuclei.  
Zhur. eksp. i teor. fiz. 38 no.3:948-951 Mr '60.  
(MIRA 13:7)

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta. 2. Institut yadernoy fiziki Pekinskogo universiteta (for TsinChen-zhuy). 3. Institut yadernykh issledovaniy Chekhoslovatskoy Akademii nauk, Praga (for Yanouch).  
(Bremsstrahlung)  
(Beta rays)

JANOUGH, F.

International summer school on nuclear theory. Jaderna energie  
9 no.1:34-35 Ja '63.



JANOUGH, Frantisek

International Summer School with the theme: Selected  
topics in nuclear theory. Cs cas fys 13 no.2:170-172 '63.

1. Ustav jadernerho vyzkumu, Ceskoslovenska akademie ved,  
Rez.

ACCESSION NR: AP3003621

Z/0055/63/013/005/0394/0396

AUTHOR: Janouch, F.

TITLE: Circular polarization of internal bremsstrahlung in unique first forbidden beta transitions

SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 13, no. 5, 1963, 394-396

TOPIC TAGS: beta decay, internal bremsstrahlung, beta particle, b electron, forbidden beta transition, beta transition, non conservation of parity, circular polarization of internal bremsstrahlung

ABSTRACT: A formula for P, the degree of circular polarization of internal bremsstrahlung accompanying a unique first forbidden beta transition, as a function of K, the energy of the bremsstrahlung quantum, is derived in the Born approximation using conventional methods for V-A interactions. The formula for P is integrated over the energies of electrons and averaged over the angle between the directions of emission of internal bremsstrahlung quanta and the beta electron. For the corresponding energy of the unique first forbidden

Card 1/2

ACCESSION NR: AP3003621

beta transition in  $\gamma_{90}$ , the results of integration and averaging are plotted in the form of a graph and are compared with the available experimental dependence of P on K. The two are in only very rough argument, especially in the region of small gamma-quanta energies. It is noted that the most probable reason for the discrepancy is that the Born approximation is not applicable to  $\gamma_{90}$ . To explain the disagreement it is necessary to increase the accuracy of measurements and to take into account the influence of the Coulomb field on the internal bremsstrahlung. Orig. art. has: 3 formulas and 1 figure.

ASSOCIATION: Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved, Rez (Institute of Nuclear Physics, Czechoslovak Academy of Sciences)

SUBMITTED: 28Jul62

DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: PH

NO REF SOV: 000

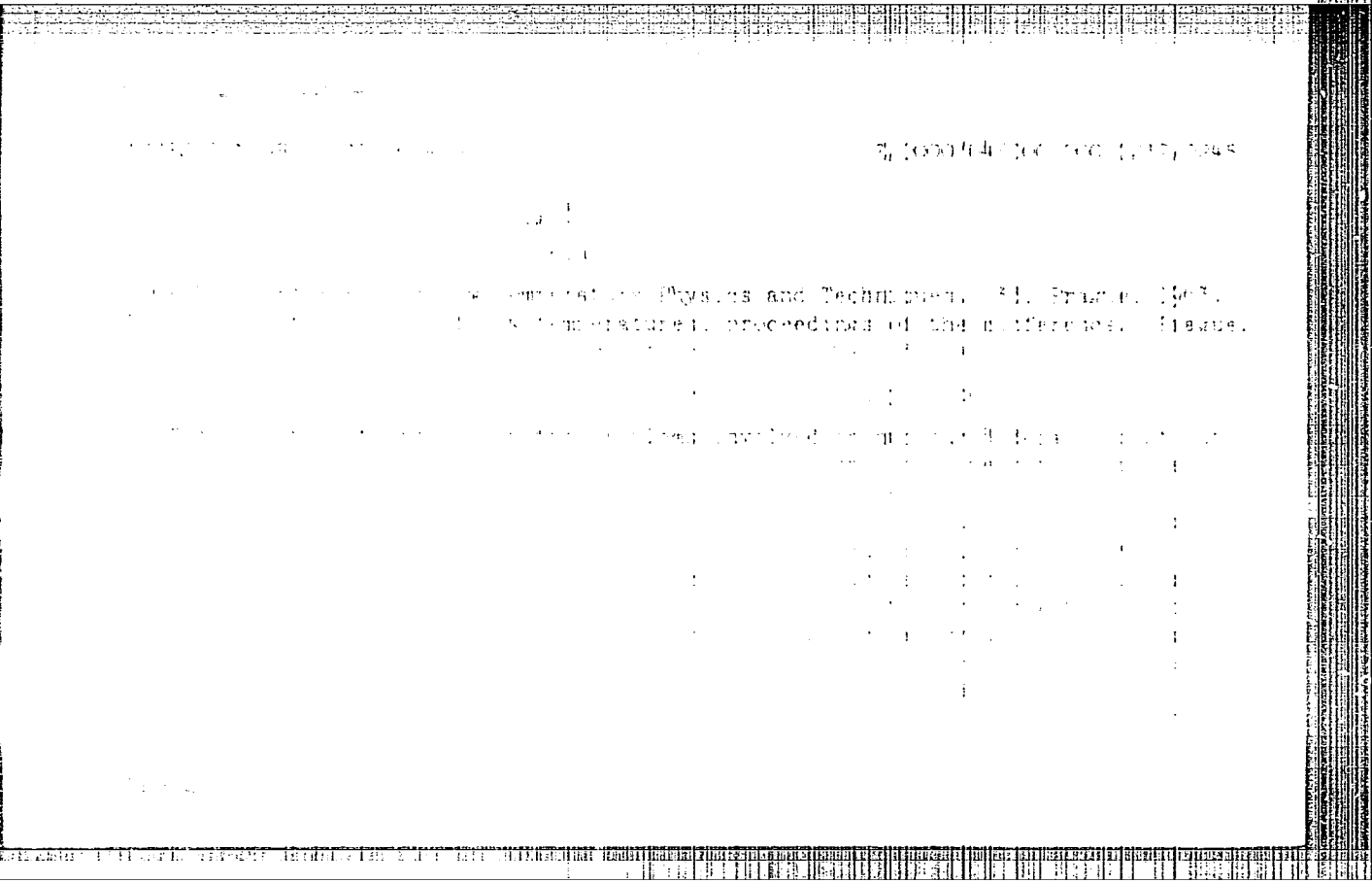
OTHER: 002

Card 2/2

JANOUCI, F.; VINDUSKA, M.

On radiative capture of  $\mu$ -mesons in nuclei. Chekosl fiz  
zhurnal 13 no.10:710-715 '63.

1. Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved, Rez.



L 6L707-65

ACCESSION NR: AT5009469

be regarded as complete, and that further experiments in the field of biology are  
being carried out. The results of the experimental work in the field of

ASSOCIATION: Nuclear Research Institute, Czechoslovak Academy of Sciences. For

SECRET  
CLASS: TOP SECRET

*dm*  
Card 2/2

JANOUCH, Frantisek; MIKULA, Bretislav; DUNDR, Josef

New method of leather finishing by curtain-coating machine.  
Kozarstvi 13 no.5:145 My '63.

1. Zavody Antonina Zapotockeho, n.p., Tyniste nad Orlici.

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APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619510019-9"



JANOUŠ, Z.

"Prefabrication in the Fifth Year of the Five-Year Plan." p. 195 (Stavební Průmysl,  
Vol. 3, no. 9, May 1953, Praha)

SO: Monthly List of East European Accessions, Vol. 3, no. 2, Library of Congress

~~APPROVED FOR RELEASE: 08/10/2001~~

CIA-RDP86-00513R000619510019-9"

JANOUD, Zdenek, inz.

Concreting in vertical molds. Poz stavby 11 no.5:247-250 '63.

1. Prefa Kosice.

JANOUD, Zdenek, (Praha, CSRS)

Holesovice, the most modern Czechoslovak plant of large  
panel building parts. Przegl budowl i bud mieszk 35 no.8:  
370-374 Ag'63.

JANOUR, J.

Economical design of electric drive distributors. Elektro-  
technik 19 no. 6:182-184 Je '64.

1. Zavody V.I.Lenina, Plzen.

JANOVR, Z.  
A/K

*Boundary Layer*

Experimentální Vytetování Vývoje Mezní Vrstvy na Profilu  
(Experimental Investigation of the Development of the Boundary  
Layer on an Airfoil Section). Závěrk-Jáhuar. Praha, Lidst  
Výzkumný Ústav (Aeronautical Research Institute), Závě  
1949, 50 pp., illus., abstr., figs. (Sudatimovsk, 1954, 1  
summary.)

Using hot-wire apparatus and an airfoil section similar to the  
NACA 4422 section, measurements were made in a closed-circuit  
wind tunnel with a free stream of circular cross section, 1  
cm. in diameter, to determine the stagnation point, points of  
maximum and minimum velocity in the boundary layer, velocity  
distribution, turbulence, and the transition vortex. Oscillograp  
records were taken at distances of 0.10 mm., 0.135 mm., and 0.17  
mm. from the surface, and lycopodium powder was used to indic  
ate the transition or separation at stall. In the region of th  
transition vortex the boundary layer can be divided into three  
sections that are characterized by differences in the velocity di  
tribution that range from slow movement in the upstream section  
a center of minimum velocity, and a rapid increase to high tur  
bulence in the downstream section. The results obtained fail to  
confirm the idea that there is a connection between the transie  
vortex and the stalling phenomena. The existence of turbulence  
in the neighborhood of the stagnation point was found, but was  
not fully explained.

JANOUR, Z.

AIK

*J. Průcha, M. Janoušek & M. Sedláček*  
*Průcha*

Odpor Pořílné Obtřkané Desky Při Malých Reynoldsových Číslích (The Resistance of a Plate Placed Parallel to the Flow at Low Reynolds Numbers). *Žurnál Jánour, Ústav Letecký Výzkumů Údar (Aeronautical Research Institute), Zpráva č. 2, 1947. 51 pp., charts, figs. 17 references. (In Czech with English summary.)*

To investigate frictional resistance in a laminar flow at Reynolds Numbers lower than those assumed in the Blasius formula—that is, at magnitudes of the order of  $10^2$  to  $10^3$ , measurements were made in the oil channel at the Göttingen Institute for Fluid Research. Results, including Reynolds Numbers from  $10^2$  to 2,200, show that the values of the resistance coefficient are higher than those given by the Blasius formula. In the range of Reynolds Numbers  $10^2$  to  $10^3$ , the coefficient can be approximated by means of the formula developed in the paper within an average accuracy of three per cent. For Reynolds Numbers greater than  $10^3$ , the resistance coefficient slowly approaches that of the Blasius formula. The lower limit of Reynolds Numbers in which the Blasius formula is valid can be extrapolated to approximately  $2 \times 10^2$ . The upper limit is given by the transition of turbulent flow in the boundary layer at Reynolds Number about  $5 \times 10^3$ . If the plate is not of infinite span but has a straight edge parallel to the flow, an additional resistance arises at the edge and its magnitude in the range of Reynolds Numbers 10 to 2,000 can be expressed with an average error of 6.2 per cent.

1960

JANOUR, Z.

Jiri Beranek's Theorie turbulentního proudění tekutin (Theory of Turbulent Flow of Liquids); a book review. p. 121.  
ČESKOSLOVENSKÝ CASOPIS PRO FYSIKU Vol. 5, No. 1, Jan. 1955

SO: Monthly East European Accession (FEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

JANOUR, Z BYNEK

10(0), 26(1) PHASE I BOOK EXPLORATION CZECH 2969

Československá Akademie věd. Šance technická  
Proceeding of International Symposium (Flow Through Turbomachinery) Praha, Katedra  
Beláry, Československá Akademie věd, 1958. 113 p. (Part 1). Sborník  
číslovaný pro výzkumné ústředí. Kvalita díly inserted. 1,250 copies printed.

Scientific Ed.: Jan Janis, Engineer, Doctor, Corresponding Member of the Czechoslovak Academy of Sciences; Resp. Ed.: Ladislav Erdl; Tech. Ed.: František Ledický.

PURPOSE: This collection of papers is intended for engineers and scientific workers in the field of turbomachinery.

COVERAGE: The collection covers turbomachinery theory, investigations of the flow of working substance in basic elements of turbomachines, phenomena accompanying flow and variable with time and investigations of various problems on experimental machines and models. A Russian and an English summary follows each paper. No personalities are mentioned. There are 189 references: 75 Czech, 51 English, 30 German, 20 Russian, and 1 Dutch.

2. Bergner, F., Engineer, ČKD Štalingrad. Optimum Sizing of the Inlet to the Impeller of a Turbo-compressor With Limit Performance  
Discussion: Šubata, Otifich, Engineer, VZLU (Výzkumný ústav letecký ústřední letecký ústav-research and experimental Aeronautical Institute) 69

3. Erhart, František, Engineer, Doctor of Technical Sciences, VÚT.  
Designing Warped Blades of Centrifugal Pump and Water Turbine Impellers With Minimum Danger of Cavitation  
Discussion: Bětek, J., Engineer, Doctor, VZLU 73 91

II. FLOW RESEARCH IN BASIC ELEMENTS OF TURBOMACHINERY

4. Bětek, Jiří, Milas, Engineer, VÚT. Symmetric Research on Airfoil Cascades  
Discussion: Ebe, Miroslav, Engineer, VÚT 95

5. Bětek, Jiří, Engineer, VÚT. Methods of Research on Airfoil Cascades and Their Application in Designing Turbine Blades  
Discussion: Koukal, Milas, Engineer, PZLU (The First Army Engineering Works of Klement Gottwald) Design of a Reaction Turbine Blade Profile 110 123 124

6. Fukuoka, Ken, Doctor C. Sc. (Civil Aeronautics) VZLU. Research on Arrangement of Blading in High-speed Turbomachinery 141 146

7. Šalín, Vladislav, Doctor, Engineer, DVL (V. I. Lenin works, Pilsen). Application of Measurements of Airfoil Cascades and Use of Analog Computers 200 223

8. Pátek, Josef, Engineer, VUS (Mechanical Research Institute) DVL, Pilsen. Wind Tunnel for Airfoil-Cascade Research  
Discussion: Ebe, M., A., DVL (Institute of Mathematical Machines, Czech Academy of Sciences), Basic Functional Elements of the Analog Computer 225 233

9. Španěl, Rudolf, Engineer, VÚT. Self-excited Vibrations of Blades in Turbomachinery 248 259



06631

AUTHOR: Jaňour, Zbyněk

CZECH/37-59-5-7/13

TITLE: The Cooling of Heated Filaments of Finite Length in a Stream of Gas

PERIODICAL: Československý časopis pro fysiku, 1959, Nr 5, pp 504 - 514

ABSTRACT: A heated-filament anemometer measures the velocity of gas flow by the rate of cooling of an electrically heated filament. The cooling due to conduction into the filament supports is often neglected. Several corrections for this effect have been published (L.V. King et al - Refs 1-7) but a systematic investigation of the problem seems justified. We assume a steady state, i.e. a homogeneous stream of gas of constant velocity which leads to a steady distribution of temperature along the filament. The filament loses heat by two processes: convection by the gas and conduction into the filament holders. For cooling by forced convection, the Nusselt number must be a function of the Prandtl and Reynolds numbers only. The Nusselt number is independent of temperature. Under these

Card1/3

*JANOUS, A.*

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and H-2  
Their Application, Part 1. Processes and Apparatus  
of Chemical Technology.

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 46992

Author : Alois Polansky, Antonin Janous

Inst : -

Title : Hydraulic Resistance of Polychlorovinyl Piping.

Orig Pub : Pozemni stavby, 1957, 5, No 12, 657-660

Abstract : The magnitude of the hydraulic resistance (HR) of poly-  
chlorovinyl piping is approximately the same as that of  
smooth pipes drawn of copper or brass. As compared  
with steel pipes, they reveal less HR and tend less to  
be choked.

Card 1/1

REHANEK, Jaroslav, inz. CSc.; JANOUS, Antonin, inz.

Method of determining the thermal input in heating up elastic heating systems. Zdravot tech 8 no.1:1-7 '65.

1. Research Institute of Building Construction, Prague.

JANOUSEK, inz.; BAUMGARTL, inz.; CRANDE, inz.

Dust removal from fumes in the electric power plant in Opatovice.  
Energetika Cz 11 no.10:499-500 0 '61.

1. Clenove komplexni brigady zavodni odbocky Ceskoslovenske vedecko-technicke spolecnosti, Elektrarna Opatovice

JANOUSEK, B.

Present concepts of the treatment and etiology and psoriasis.  
Prakt. lek., Praha 31 no. 4:75-77 20 Feb 1951. (GIML 22:3)

1. Of the Dermatological Clinic (Head--Prof. B. Janousek, M. D.)

JANOUSEK, B.

Skin diseases in workers exposed to Bucky's rays and their prevention.  
Bratisl. lek. listy 32 no. 3-4:135-139 1952. (CML 24:1)

1. Of the Dermatological Clinic in Hradec Kralove.

JANOUSEK, B.

Antibiotics in dermatology. Prakt. lek., Praha 32 no. 17:393-396  
5 Sept 1952. (CINL 23:1)

JANOUSEK, Bretislav

70th anniversary of professor MUDr Antonin Tryb. Cesk. dermat. 29  
no.2:65-68 Ap '54.

(BIOGRAPHIES,

\*Tryb, Antonin)



VLARSKY, Josef; JANOUSEK, Bretislav

Our experience with the treatment of eczema with hypnosis. *Cesk. dermat.*  
35 no.2:86-89 Ap '60.

1. Dermatovenerologická klinika lékařské fakulty KU v Hradci Králové,  
prednosta prof. MUDr. Bret. Janousek.

(ECZEMA ther) (HYPNOSIS ther)

JANOUSEK, B.

Prof. MUDr Antonin Tryb and his contribution to Czechoslovakian dermatology. *Cesk. derm.* 34 no.2/3:75-81 Ap '59.

(BIOGRAPHIES) (DERMATOLOGY)

JANCUSEK, Bretislav; CHVOJKA, Zdenek

Prevention of occupational injuries in workers using Bucky's apparatus. Cesk. dermat. 36 no.4:256-260 Je '61.

1. Dermatologicka klinika lek. fakulty KU v Hradci Kralove, prednosta prof. MUDr. Bret. Janousek, a radiologicka klinika lek. fakulty KU v Hradci Kralove, prednosta Dr. Sc. prof. MUDr. Jan Bastecky.

(RADIATION PROTECTION)

JANOUSEK, Bretislav; BARTAK, Pavel; CINHACEK, Jan; DADNA, Jaroslav;  
DLABALOVA, Hana; KRAUS, Zdenek; NOZICKOVA, Marie; PETRILKOVA,  
Alena; ROZSIVALOVA, Vera; SOLTA, Vladimir.

A contribution to the problems of varicose leg ulcers. Sborn.  
ved. prac.lek. fak. Karlov. Univ. 8 no.3:299-304 ' 65.

1. Dermatovenerologicka klinika (prednosta: prof. MUDr.  
B. Janousek) Karlovy University v Hradci Kralove.

JANOUSEK, E.

JANOUSEK, E. Economy of peasants holding middlesized farms in the past; report from the Historical Commission of the Czechoslovak Academy of Sciences. p. 662. Vol. 3, no. 12, 1956, VESTNIK Praha, CZECHOSLOVAKIA

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

CZECH/34-59-5-16/19

AUTHORS: Janoušek, Ivan and Študlar, Karel, Ing.

TITLE: Determination of Boron in Steels Containing 1 to 5% B  
(Stanovení boru v ocelích s obsahem 1 až 5% B)

PERIODICAL: Hutnické Listy, 1959, Nr 5, pp 458-462 (Czechoslovakia)

ABSTRACT: The authors solved the problem of determining boron in quantities of 1 to 5% in carbon steel. In the first part known methods are described of separating out and determination of boron. Distillation from a HCl medium after CaCl<sub>2</sub> dehydration was found to be the most reliable method, using titration for the determination. A method of separation of disturbing elements onto a Hg cathode was tried and adapted for the purpose. This method yields slightly excessive values (about 1.75% relative) and fails if Al is present in excess of 1%. The Catex FN of Czech manufacture was also used for separating disturbing elements. On the basis of the obtained results a new method of separation was evolved whereby the final determination is by means of titration. The method is

Card 1/2



CZECHOSLOVAKIA / Analytical Chemistry. Analysis of Inorganic  
Substances.

E

Abs Jour: Ref Zhur-Khim., No 9, 1959, 30984.

(1:1) using litmus as an indicator. The excess 2-3 ml of  $\text{NH}_4\text{OH}$  is then introduced and the whole is boiled for 10 minutes. The filtrate is then cooled;  $\text{NH}_4\text{OH}$  and KCN are added and the filtrate is then titrated with 0.05 M solution of EDTA with eriochrome black T present as indicator. In oxidizing Mn by means of  $\text{Br}_2$  the following procedure is employed: 25 ml of saturated  $\text{Br}_2$  solution are added to the A solution. They are stirred and small portions of  $\text{NH}_4\text{OH}$  (1:1) are added until the disappearance of the orange coloration (if Cu is present  $\text{NH}_4\text{OH}$  is added until a blue color appears). The solution is boiled for 5 minutes, filtered, the filter is flushed

Card : 4/5

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APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619510019-9"

CZECHOSLOVAKIA / Analytical Chemistry. Analysis of  
Inorganic Substances.

E

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42074.

Author : Studlar, K.; Janousek, I.  
Inst : Not given.  
Title : Complexometric Determination of Lead in Bearing  
Alloys and Solders.

Orig Pub: Hutnicke listy, 1958, 13, No 9, 805-808.

Abstract: The complexometric method of determination of Pb in its alloys containing >10% Pb is described. The sample to be analyzed weighing 0.5 g (or 0.4 g. in the case of alloys containing >90% Pb) is dissolved in 20 ml. of concentrated HCl by slight heating over a period of 15-20 min. 5 ml. of 30%  $\text{H}_2\text{O}_2$  are added in small doses to the cooled solution (Cu and Sb pass into solution). It is boiled

Card 1/3

JANOUSEK, I.

CSR

Research and Testing Institute, Lenin Works, Plzen

Prague, Collection of Czechoslovak Chemical Communications, No 12, 1962,  
pp 2972-2975

"Spectrophotometric Determination of Vanadium by Means of Xylenolorange  
Following Separation on Katex"



JANOUSEK, Ivan

Contribution to the titration determination of manganese and  
chrome in steel from one charge. Hut listy 18 no.5:356-357  
My '63.

1. Vyzkumny a zkusebni ustav, Zavody V.I. Lenina, Plzen.

JANOUSEK, Ivan; CECHOVA, Drahomira, inz.

Photometric determination of silicon in cast iron and  
silicon steels. Hut listy 19 no. 2: 128-130 F '64.

1. Vyzkumny a zkusebni ustav, Zavody V. I. Lenina, Plzen.

JANOUSEK, Ivan

Direct photometric determination of the 0.05 to 1 percent of antimony in gray cast iron. Hut listy 19 no. 4: 276-278 Ap '64.

1. Research and Testing Institute, Zavody V. I. Lenina, Plzen.

I. 3328-66 EWP(t)/EWP(b)/EWA(h) JD

ACC NR: AP5027880

CZ/0034/65/000/002/0133/0134

AUTHOR: Janousek, Ivan

TITLE: Notes on the determination of sulfur in industrial iron by a combustion method <sup>31</sup><sub>B</sub>

SOURCE: Hutnicke listy, no. 2, 1965, 133-134<sup>n</sup>

TOPIC TAGS: iron, sulfur, combustion

ABSTRACT: The article presents comments which can help improve the precision of the modified Holthaus method. Orig. art. has: 1 table.

ASSOCIATION: Vyzkumny a zkusebni ustav ZVIL, Plzen (Research and Testing Institute, ZVIL)

SUBMITTED: 00

ENCL: 00

SUB CODE: 00

NR REF SOV: 000

OTHER: 008

JPRS

Card 1/1

JP

JANOUSEK, Jaroslav, inz.; JUNEK, Milan; PESEK, Milan

Experiences in standardization of the technological processes in the assembly of machine tools. Podn org 18 no.4:154-157 Ap '64.

1. Research Institute of Machine Industry Technology and Organization (for Janousek). Tovarny na obrabaci stroje Varnsdorf (for Junek and Pesek),

Janousek, Jos.

BAZANT, Vrat, Doc.Dr.; SKACH, Mir.Dr.; JANOUSEK, Jos. Dr.

Periapical excochleation; surgical treatment of apical periodontitis, development and present concepts. Cesk.stomat. no.4-5:110-116 J1 '55.

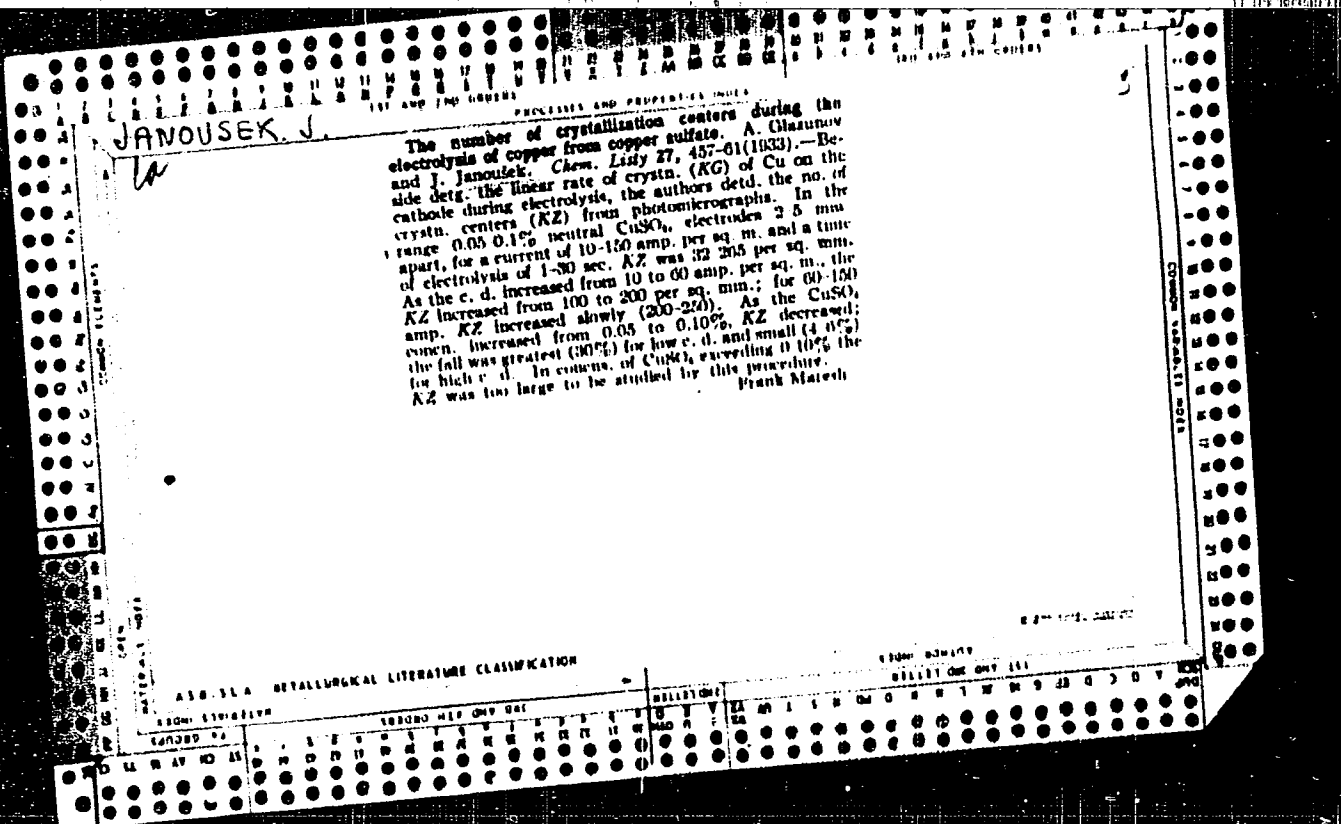
1. Z II stomatologicke kliniku KU, prednosta prof. dr. Fr. Neuwirt.

(PERIODONTIUM, diseases,  
surg., excochleation, periapical)

BERANEK, R.; CIBULEC, A.; JANOUSEK, J.

A direct pre-amplifier for neurobiology. Cesk. fysiол. 11 no.1:  
47-52 Ja '62.

1. Fysiologicky ustav CSAV, Praha.  
(NERVOUS SYSTEM physiology) (ELECTROPHYSIOLOGY equip & supplies)





JANOUSZEK, J.

①

11519\* (Experiences With the Production of a 105 Ton  
Steel Casting Press Stand.) Zkusenosti s výrobou 105tunio-  
vého ocelového odlitku stojanu lisu. J. Janousek. Slévárnostř.  
v. 2, no. 3, Mar. 1954, p. 74-81.  
Production methods. Diagrams, photographs, graphs.

10/22/54  
88/P

JANOUSEK, Josef, inz.

Magnetic noise in asynchronous squirrel-cage motors. El tech obzor  
52 no.3:142-145 Mr '63.

1. Ceskomoravska-Kolben-Danek Praha, n.p.

**"APPROVED FOR RELEASE: 08/10/2001**

**CIA-RDP86-00513R000619510019-9**

**APPROVED FOR RELEASE: 08/10/2001**

**CIA-RDP86-00513R000619510019-9"**

CZECHOSLOVAKIA / Chemical Technology. Industrial Syn- H-16  
thesis of Dyes.

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 78670.

Author : Janousek, J.

Inst : Not given.

Title : The Paper Chromatography of Dispersed Dyes.

Orig Pub: Textil (Ceskosl.), 1957, 12, No 3, 107-108.

Abstract: No abstract:

Card 1/1

Country: Czechoslovakia  
Category: Chemical Technology, Chemical Products and Their Applications. -- Dyeing & Chem. Treatment of Text.

Abs. Jour: R. Zh. - Khim., No. 11, 1959 Materials.

41066

Author : Janousek, J.

Institut. : Not given

Title : The Dyeing of Polyester Fibers with Developed Dyes

Orig Pub. : Textil (Czechoslovakia), 13, No 7, 272-273 (1958)

Abstract : Azoic dyes [ice colors] are used in the dyeing of polyester fibers because of the unavailability of brilliant and pure scarlets and reds in the disperse colors series and the impossibility of obtaining fast deep-toned browns, blue-blacks, and blacks in that series. The process used differs from that used in the ingrain dyeing of cellulose fibers: in view of the hydrophilic nature of the naphthols, free phenols and naphthols in the form of aqueous suspensions at high temperatures are used as the passive components [developing agents?] and the diazotization is carried out simultaneously with the coupling reaction directly on the fiber.

Card: 1/3

Institut. :  
Title :

EAST GERMANY/CZECHOSLOVAKIA

KRALOVA, M., and JANOUSEK, J., of the Institute for Experimental Botany at the Czechoslovak Academy of Sciences [original-language version not given]; and MOUCHOVA, H., of the Central Research Institute for Plant Production at the Ministry of Agriculture [original-language version not given]; both in Prague, Czechoslovakia.

"Observation of Nitrogen Metabolism in Plants with the Aid of N-15"

Berlin, Isotopenpraxis, Vol 2, No 11, Nov 1966, pp 435-436

Abstract: The effects of various doses of nitrogen fertilizer, used in the form of  $KNO_3$ , on the amount of nitrogen taken up by Vicia faba were investigated in vivo using  $N^{15}$ -labeled compound. It was found that in all instances the amount of nitrogen taken up from the atmosphere decreases with increasing dosages of  $KNO_3$  fertilizer. 2 references, including 1 Russian and 1 Western. (Manuscript received 12 Mar 1966).

1/1

"Report on the conference of engineering students in Bratislava."

s.26 (Průmyslový a Kariérový Obzor, Vol. 4, no. 1, Jan. 1961, Praha, Czechoslovakia)

Monthly Index of East European Periodicals (MIEP) 10, Vol. 7, No. 1, 1968

L.  
JANOUSEK, inz.

Preparing the 4th geodetic conference. Geod kart obzor 8 no.12:240  
D '62.

L 31781-66

ACC NR: AP6021654

SOURCE CODE: CZ/0039/65/026/007/0407/0411

AUTHOR: Jancouek, Ladislav (Engineer)

34

B

ORG: Research Institute of Vacuum Electrical Engineering, Prague (Vyzkumny ustav pro vakuovou elektrotechniku)

TITLE: Fiber plates for optical thermionic tubes 10

SOURCE: Slaboproudny obzor, v. 26, no. 7, 1965, 407-411

TOPIC TAGS: thermionic tube, optic fiber, TV transmitter

ABSTRACT: The article evaluates the application of optical fiber plates for the functional connection of mutually linked optical thermionic tubes or their parts. The resulting gain is investigated and the requirement is defined for a minimum dimension of the optical fiber to prevent more serious losses in the contents of the picture to be transmitted during the transmission of the picture elements. Orig. art. has: 10 figures and 8 formulas. Based on author's Eng. abst. [JPRS]

SUB CODE: 09, 20, 17 / SUBM DATE: 28Dec64 / OTH REF: 001

Card 1/1

UDC: 621.383.8

JANICEK, M.; KUBIS, M.; JANOUSEK, M.; SEKANINOVA, H.

Effect of obesity and some dietary components in the pathogenesis of hypertension. Vnitřní lek. 11 no.2:130-138 F '65

I. I. vnitřní klinika Palackého University, Olomouc (prednosta: prof. MUDr. P. Luk).



JANICEK, M.; JANCUSEK, M.; KUBIS, M.; SEDLACKOVA, S.

Takayasu's disease and syndrome. Experiences with long-term conservative therapy. Vnitřní lek. 11 no.4:356-360 Ap'65.

1. I. vnitřní klinika Palackého University v Olomouci (prednosta: prof. MUDr. P. Lukl).

JANOUSEK, M.; ROCEK, V.; HOLUSA, R.

Pulmonary aspergilloma in the course of agranulocytosis complicated by candidiasis. Cesk. rentgen. 17 no.1:10-15 Ja '63.

1. I. interni klinika lekarske fakulty PU v Olomouci, prednosta prof. dr. P. Lukl Rentgenologicky ustav lekarske fakulty PU v Olomouci, prednosta doc. dr. J. Doubravsky, CSc. Patologickoanatomicky ustav lekarske fakulty PU v Olomouci, prednosta doc. dr. V. Valach.  
(ASPERGILLOSIS) (LUNG DISEASES, FUNGAL)  
(AGRANULOCYTOSIS) (MONILIASIS)

KUBIS, M.; JANOUSEK, M.; JANICEK, M.; SEDLACKOVA, E.

Changes in heart sounds during pregnancy. Cesk. gynek. 30  
no.4:282-286 My'65.

1. I. vnitřní klinika lékařské fakulty Palackého University  
v Olomouci (prednosta: prof. dr. P. Lukl.).

JANOUSEK, M.

The Moratherm 710 gas radiator. Paliva 45 no.4:141-142 Ap '65.

HANOUSEK, ST.

CZECH

M  
D  
O  
V. A note on the clinical estimation of blood proteins. St. Jan-  
ček and Ruth Kocová (Masaryk Univ., Prague)  
Czechoslovakia, 1951-1952. The turbidimetric  
(I), biuret (II), and sp. gr. (CuSO<sub>4</sub>) (III) methods for the  
detn. of blood proteins were compared. Results obtained  
by I are more scattered than those obtained by II. The  
simultaneous examn. of 48 serums by means of II and III  
showed only a very approximate correlation between both  
methods. The results are liable to error up to 15%.  
Author: Zoulik

JANOUSEK, S.

Hematologic study of the population in 1938-1950. Sborn. pathofysiol.  
trav. vyz. 5 no.6:311-316 1951. (CIML 23:2)

JANOUSEK, S.

Hematologic studies of the Czechoslovakian population; further report.  
Cas.lek.cesk. 90 no.11:332-335 16 Mar 1951. (CJML 20:7)

1. Of the Polyclinic of Charles University.

JANOUSEK, ST.

BLEKTA, M., Dr.; JANOUSEK, St., Doc. Dr.; LUKAS, J., prof. Dr.; SOM-  
MEROVA, O.; SEREK, T., Dr.; TOMASEK, Z., Dr.

Investigations on pregnancy in the population according to certain  
biochemical and hematological factors. Cas.lek.cesk. 91 no.40:1138-  
1144 3 Oct 52.

1. Z II. porodnicke kliniky a ustredni laboratore e fakultniho  
zdravotnickeho' strediska Karlovy university v Praze.

(PREGNANCY, physiology,  
hematol., physiology & biochem. aspects, statist.  
analysis)



JANOUSEK St., BOR, I., and PADOVCOVA, H.

Z ustred Lab. Fak. zdrav. stred. a II detsk. Klin. Prof. dr. J. Brdlka,  
Praha. \*Oxymetricke vysetrovani u vrozenych srdecnich vad. Oxymetrical  
examination in congenital heart diseases CAS. LEK. CES. 1953, 92/8  
(200-203) Graphs 1 Tables 1

Based on oxymetrical examination of 50 healthy people at the age from 5 to 50 yr. and 28 suffering from congenital heart diseases of various types, who had inhaled O<sub>2</sub> and who were after strain, the authors came to the conclusion that an oxymetrical examination of congenital heart diseases gives considerable numerical information of the basic oxygenical processes and was to form an important part of the examination. Hora - Brno

SO: EXCERPTA MEDICA, Vol. 8, No. 5, Section VI, May 1954

JANOUSEK, St., Prof., Dr.; HERFORT, K., Doc., Dr.; SKACHOVA, J., Dr.

Correlation between gastric pepsin and serum pepsinogen. Cesk. gastroenter. 9 no.2:113-121 June 55.

1. Z fakultni polikliniky Karlovy unviarsity.

(GASTRIC JUICE

pepsin, correlation with pepsinogens in blood)

(BLOOD

pepsinogens, correlation with gastric pepsin)

(ENZYME PRECURSORS

pepsinogens in blood, correlation with gastric pepsin)

CZECH

A polarographic study of the autoproteolytic enzymic activity of human serum at acid reaction and its changes in serum from patients with pernicious anemia. St. Janoušek, J. Krutiková, and Fr. Malis (Pak. zdravotní středisko UNV, Prague). *Casopis Lékařů Čech* 64: 81-6 (1955).—Sulfosalicylic acid filtrates of human blood serum previously incubated in an acid medium were studied by means of Brdicka's polarographic reaction in  $\text{Co}^{++}$ -contg. buffer. The increase of the polarographic double wave in serum acidified to pH 1.0 was not due to a denaturation due to an enzymic digestion of the serum. No increase of the double-wave was found in the sulfosalicylic filtrate of egg albumin subjected to similar treatment. The amount of proteolytic products increased with time of incubation at 37°, forming a slightly convex curve in normal subjects. All 26 patients suffering from pernicious anemia (I) showed lower activity (0-14 mm.) than 97 other out-patients (14-49 mm.). Remissions in the I had no effect on the lowered proteolysis at pH 1.3. Histamine-resistant gastric achylia and some old male subjects gave relatively low values but

well above the I range. The pH vs. activity curves at acid reactions of serums of I patients and of healthy individuals were analyzed. Normal serum revealed three peaks of proteolytic activity: between pH 2-3, between 3-4 and between 5-7. The first pH optimum was lacking in serum of I; it was attributed to the presence of pepsinogen which was acid-activated. The second optimum was usually higher in I than in the normals and it was due to the activity of a cathepsin type protease which was inactivated on incubation at pH 1.0. The first and second proteolytic systems have already been shown by previous authors using various substrates. The third system, with an optimum at pH 5-7, is maintained in I. It is not inactivated by preliminary adjustment to pH 1.0. It is inferred that it became demonstrable either due to the specificity of the substrate contained in the serum or to the use of the polarographic method. The simple assay described in the paper is suitable for routine clinical testing. Calibration in terms of N released is feasible. I. M. Hahn...