

21405
S/089/61/011/006/008/014
B102/B138

Delayed-neutron yields in...

the number of delayed neutrons emitted, about 0.2 sec; after irradiation had ceased the sample was dipped into a neutron detector 1.5 m from the neutron source. The detector consisted of 17 boron counters of the CHM-5A (SNM-5A) type contained in a paraffin block. The end of neutron bombardment which coincided with removal of the sample was established cinematically with an accuracy of 0.02 sec. As neutron counting started 0.2 sec after the end of bombardment, this caused a loss in neutrons with a delay of 0.16 sec. Special measurements were made to determine this error, which was not above the experimental level. The total number of delayed neutrons could thus be determined by extrapolating the neutron number - versus - time curve to the instant when bombardment ceased. The following results were found: total delayed-neutron yield per decay event: 0.0130 ± 0.0015 for Pu^{239} , and 0.075 ± 0.007 for Th^{232} . The Pu^{239} yield is twice as high as when fission is induced by thermal or fission neutrons. This result is explained by assuming that neutron emission probability increases with increasing excitation energy. There are 1 figure and 4 references: 3 Soviet and 1 non-Soviet. The two references to English-language publications read as follows: G. Keepin et al., Phys. Rev. 107, 1044 (1957); J. Nucl. Energy, 6, 1 (1957); K. Sun et al., Phys. Rev. 79, 3, 1950.

Card 2/3

Delayed-neutron yields in...

21105
S/089/61/011/006/008/014
B102/B138

SUBMITTED: July 18, 1961

Card 3/3

X

PETRZHAK, K.A.; TOLMACHEV, G.M.; USHATSKIY, V.N.; BAK, M.A.;
BLINOVA, N.I.; BUGORKOV, S.S.; MOSKAL'KOVA, E.A.; OSIPOVA,
V.V.; PETROV, Yu.G.; SOROKINA, A.V.; CHERNYSHEVA, L.P.;
SHIRYAYEVA, L.V.

[Yields of certain fragments in U^{235} , U^{238} , and Pu^{239} fis-
sion by neutrons] Vykhody nekotorykh oskol'kov pri delenii U^{235} ,
 U^{238} i Pu^{239} neitronami deleniia. Moskva, Glav. upr. po is-
pol'zovaniiu atomnoi energii, 1960. 14 p. (MIRA 17:2)

33823

S/137/62/000/001/144/237

A052/A101

188200

AUTHORS: Przegalinski, S., Bak, R., Wojnarowski, J.

TITLE: The effect of Ni on the fatigue strength of structural steel

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 37, abstract 11250
("Wytrzymałosc zmeczeniowa tworzyw i elementow metalowych",
Warszawa, 1961, 50-53, Polish summary)

TEXT: The relation between σ_w and σ_c for 3 grades of steel with a different Ni content (35XM, 34XHM and 33XH8MA) after heat treatment was investigated. The heat treatment consisted of oil hardening at 830 - 850°C and tempering at 560 - 605°C with oil cooling. Mechanical properties (σ_s , σ_b , σ_s/σ_b , δ_{10} , ψ and α_k) for all 12 investigated heats are stated. The fatigue tests were carried out by three different methods: on plane samples - tension-compression (I), on plane cantilever samples - bending with torsion (II), on cantilever samples with a notch - bending with torsion (III). It is established that after the said heat treatment ($\sigma_c = 105 - 110 \text{ kg/mm}^2$) σ_w of investigated steels is rather independent of the Ni content. For the method I $\sigma_w = 48 - 49 \text{ kg/mm}^2$, for the method II $\sigma_w = 54 - 53 \text{ kg/mm}^2$ and for the method III $\sigma_w = 16 - 18 \text{ kg/mm}^2$. For

Card 1/2

33823

S/137/62/000/001/144/237
A052/A101

The effect of Ni on the fatigue strength ...

all 3 steels the relation of respective σ_w and σ_b is about the same namely:
 $\sigma_w^I/\sigma_b = 0.450 - 0.454$, $\sigma_w^{II}/\sigma_b = 0.504 - 0.520$, $\sigma_w^{III}/\sigma_b = 0.144 - 0.163$. The notch
sensitivity coefficient defined as the relation $\sigma_w^{II}/\sigma_w^{III}$ is equal for all
steels to 3.22 - 3.50. Consequently the addition of Ni to steel for all parts
working under cyclic load conditions is not justified. The application of steels
with Ni is advisable for large cross-section parts where Ni is introduced to
raise the hardenability. X

M. Shapiro

[Abstracter's note: Complete translation]

Card 2/2

YASINSKIY, A.V.; ARSKIY, V.G.; BAK, R.G.; LAZEYEVA, A.F.

System of measures for sanitation in sections with an increased
dysentery incidence in Dushanbe. Zhrav.Tadzh. 9 no.3:32-36 My-Je
'62. (MIRA 15:8)

(DUSHANBE--DYSENTERY)

301. 5

BAK, S.

BAK, S. Measuring exactly conical screw threads. p. 489.
Vol. 27, no. 11/12, Nov./Dec. 1954
MECHANIK. Waszaw Poland

SOURCE: East European Accessions List (EEAL) IC Vol. 5, No. 6, June 1956

BAK, S.

TECHNOLOGY

PERIODICAL: MECHANIK, Vol. 32, no. 1, Jan. 1959.

BAK, S. Workshop measurements of angle gauges. p. 24.

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

BAK, St., mgr

Determination of the optimum conditions for multiradial interference in length measurements performed by the positive interference method. Pomiary 9 no.2:93 F '63.

1. Laboratorium Pomiarow Inteferencyjnych, Glowny
Urzad Miar, Warszawa.

BAK, Stanislaw, mgr.

Measurements of surface roughness by the interference method.
Mechanik 35 no.2:81-84 '62.

1. Glowny Urzad Miar

BAK, Stanislaw, mgr.

Conditions for the application of multiple beam interference
to measurements of surface roughness. Przegl mech 21 no.5:
142-145 '62.

1. Glowny Urzad Miar, Warszawa

BAK, S.

Intravenous administration of procaine in surgical diseases. Polski
przeł. chir. 25 no.1:67-78 Jan 1953. (CJML 24:3)

1. Of the Second Surgical Clinic (Head--Prof. K. Michajda, M. D.) of
Krakow Medical Academy.

BAK, S.; ZYGUISKA, H.

Pre- and postgastrectomy studies on glycogen and lactic acid in blood in gastrectomy for peptic ulcer. Polski przegl. chir. 25 no.2:139-150 Feb 1953.
(CJML 24:4)

1. Of the Second Surgical Clinic (Head--Prof. K. Michejda, M.D.) and of the Institute of General Pathology (Head--Prof. Giedosz, M.D.), Krakow Medical Academy.

MICHEJDA, K.; BAK, S.

Early diagnosis of gastric cancer. Polski przegl. chir. 25 no.3:203-224.
Mar 1953. (CIML 24:4)

1. Of the Second Surgical Clinic (Head--Prof. K. Michejda, M.D.) of
Krakow Medical Academy.

BAK S.

CHUDYK, Julian; BAK, Stefan

Pneumoretroperitoneum. Przegl. lek., Krakow 10 no.7:203-207 1954.

1. Z Kliniki Radiologicznej Akademii Medycznej w Krakowie. Kierownik:
Dr J.Chudyk. Z II Kliniki Chirurgicznej Akademii Medycznej w
Krakowie. Kierownik: prof. dr K.Michejda.
(PNEUMOPERITONEUM, ARTIFICIAL,
retropneumoperitoneum)

BAK, Stefan (Address: Krakow, ul. Kopernika 21, II. Klinika Chirurgiczna
A.M.)

Duodenal fistula following gastrectomy. Polski przegl. chir. 26
no.1:21-27 Ja '54.

1. Z II. Kliniki Chirurgicznej Akademii Medycznej w Krakowie.
Kierownik: prof. Dr K. Michejda (Praca wpłynęła do redakcji dnia
13.II.1952)

(PEPTIC ULCER, surgery,

*gastrectomy, postop. duodenal fistula)

(FISTULA,

*duodenum, postop. in gastrectomy for peptic ulcer)

(DUODENUM, fistula,

*postop. in gastrectomy for peptic ulcer)

BAK, Stefan; KOBIELA, Jan; KULCZYCKI, Adam

Studies on microstructure of the muscular system of the lower extremities during chronic vascular changes. Polski przegl. chir. 26 no.2:153-166 F '54.

1. Z II Kliniki Chirurgicznej A.M. w Krakowie, Kierownik: prof. dr K. Michejda, z Zakładu Medycyny Sadowej A.M. w Krakowie, Kierownik: prof. dr J. Olbrycht, z Zakładu Histologii A.M. w Krakowie, Kierownik: prof. dr J. Ackermann.

(THROMBOANGIITIS OBLITERANS, pathology,

*leg muscles)

(LEG, muscles,

*in thromboangitis obliterans)

BAK, Stefan; KULCZYCKI, Adam; KOBIELA, Jan

Studies on the vascular system of the lower extremities in Buerger's disease: the vascular system of the muscles; a preliminary communication. Polski przegl. chir. 26 no.2:166-169 F '54.

1. Z II Kliniki Chirurgicznej A.M. w Krakowie, Kierownik: prof. dr K. Michejda, z Zakładu Medycyny Sadowej A.M. w Krakowie, Kierownik: prof. dr. J. Olbrycht, z Zakładu Histologii A.M. w Krakowie, Kierownik: prof. dr J. Ackermann.

(THROMBOANGIITIS OBLITERANS, pathology,

*leg blood vessels)

(LEG, blood supply,

*in thromboangitis obliterans, vasc. pathol.)

BAK, STEFAN

BAK, Stefan

Clinical value of arteriography in arterial diseases of the lower extremities. Polski przegl. chir. 26 no.3:257-268 Mr '54.

1. Z II Kliniki Chirurgicznej Akademii Medycznej w Krakowie, Kierownik: prof. dr K. Michejda. (Praca wpłynęła do redakcji dnia 15.XI.1952).

(LEG, blood supply,

*arteriography, clin. significance)

(VASCULAR-DISEASES, PERIPHERAL,

*leg, arteriography, clin. value)

BAK, Stefan

Arteriovenous anastomosis and blood vessel grafts on lower
extremities. Polski przegl. chir. 26 no.10:911-925 Oct 54.

1. Z II kliniki chirurgicznej Akademii Med. w Krakowie; kierownik
prof. dr. K.Michajda.

(LEG, blood supply

arteriovenous anastomosis & saphenous veins grafting
in dogs)

(TRANSPLANTATION

saphenous veins grafts in dogs)

(VEINS, SAPHENOUS, transplantation
exper. grafts in dogs)

BAK, Stefan

Stripping in chronic arterial diseases. Polski przegl. chir. 26
no.12:1087-1097 Dec 54.

1. Z II Kliniki Chirurgicznej Akademii Medycznej w Krakowie.
Kierownik: prof. dr. K. Michejda.
(VASCULAR DISEASES, PERIPHERAL, surgery,
stripping of intima)

BAK, S.

"Comparison of Interferometers of the Kesters, Nife, Precision Mechanique, and Hilger Types for Absolute Measurements of Sample Platelets." Biuletyn Gl. P. 3.
(PRZEGLAD TECHNICZNY, Vol. 75, No. 4, Apr. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 1, Jan. 1955 Uncl.

BAK, Stefan, ZUREK, Wieslaw, Krakow

Action of pendiomid in endarteritis obliterans. Przegl.lek.
Krakow 11 no.8:247-250 1955.

1. Z II Kliniki Chirurgicznej A.M. w Krakowie. Kierownik: Prof.
dr. K.Michejda.

(AUTONOMIC DRUGS, therapeutic use
pendiomid in endarteritis obliterans)
(ENDARTERITIS OBLITERANS, therapy,
pendiomid)

BAK, Stefan; SENYK, Irena

Report results following lumbar sympathectomy in chronic diseases of the lower extremity. Polski przegl.chir. 27 no.5:425-440 May '55.

1. Z II Kliniki Chirurgicznej A. M w Krakowie. Kierownik: prof. dr. K.Michejda. Krakow, Kopernika 40, I. Klin.chir. A M
(VASCULAR DISEASES, PERIPHERAL, surgery, sympathectomy, lumbar)
(SYMPATHECTOMY, lumbar, in peripheral vasc.dis.)

DHA, STEFAN

BAKOWA, Stanislaw; BAK, Stefan.

Congenital diaphragmatic hernia in children. Polski przegl.
chir. 27 no.10:957-963 Oct. '55.

1. Z Kliniki chorob dzieci kierownik: prof. dr W. Bujak.
Kierownik: prof. dr K. Michejda. Krakow, ul. Kopernika 40
(I. Klin.chir. A.M.)

(HERNIA, DIAPHRAGMATIC, in infant and child,
congen.)

DOLEZAL, Marian; WALKER, Ryszard; BAK, Stefan

The effect of antibiotics on phagocytosis in surgical diseases.
Polski przegl. chir. 27 no.12:1171-1178 Dec 55.

1. Z. Zakladu Mikrobiologii Lekarskiej. Kierownik: prof. dr.
Z. Przybylkiewicz, i II Kliniki Chirurgicznej A.M. w Krakowie.
Kierownik: prof. dr. K. Michejda, Krakow, ul. Kopernika 40.

(PHAGOCYTOSIS, eff. of drugs on
antibiotics, in surg.)

(ANTIBIOTICS, eff.
on phagocytosis in surg.)

(SURGERY, OPERATIVE
eff. of antibiotics on phagocytosis)

BAK, Stefan

A case of traumatic rupture of the renal pelvis in hydronephrosis.
Polski przegl. chir. 27 no.12:1231-1232 Dec 55.

1. Z II Kliniki Chirurgicznej A.M. w Krakowie. Kierownik: prof.
dr. K. Michejda, Krakow, ul. Kopernika 40.

(HYDRONEPHROSIS, compl.

traum. rupture. of renal pelvis)

(KIDNEYS, rupture

traum., of renal pelvis, in hydronephrosis)

(WOUNDS AND INJURIES

kidneys, causing ruptu. of renal pelvis in
hydronephrosis)

BAK, Stefan

A case of embryonic hernia of the umbilical cord in premature infants. Polski przegl. chir. 27 no.12:1236-1237 Dec 55.

1. Z II Kliniki Chirurgicznej A.M. w Krakowie. Kierownik: prof. dr. K. Michejda.

(HERNIA, UMBILICAL
congen, in premature inf.)
(INFANT, PREMATURE, dis.
hernia, congen. umbilical)

BAK, Stefan; OSTROWSKA, Aleksandra; SOCHA, Wladislaw; TUTAJ, Ludwika

~~Effects~~ Effects of arterial blood pressure on the development of experimental arteriosclerosis. Polski tygod. lek. 13 no.12:421-425 14 Mar 56.

1. Wplyw tetniczego cisnienia krwi na rozwoj doswiadczalnej miazdzicy tetnic Z I Kliniki Chirurgicznej A. M. w Krakowie kierownik; prof. Bogusz J Z III Kliniki Chor Wewn. kierownik: prof: Aleksandrowicz J i z Zakladu Med. Sadowej kierownik: prof. J. Onlbrycht.

(ARTERIOSCLEROSIS, exper.

eff. of arterial blood pressure on develop. in dogs (Pol))

(BLOOD PRESSURE

eff. of arterial pressure on develop. of exper. arteriosclerosis (Pol))

BAK, Stefan; DOLEZAL, Marian; SEHYK, Irena; WALKER, Ryszard; ZAWADA,
Maria

Use of antibiotics and chemotherapeutics in mechanical
intestinal obstruction. Polski przegl. chir. 28 no.1:
27-48 Jan 56.

1. Z II Kliniki Chirurgicznej A. M. w Krakowie Kierownik: prof.
Dr. K. Michejda i z K Zakładu Mikrobiologii Lekarskiej a
A. M. w Krakowie. Kierownik: prof. dr. Z. Praybykiewicz
Krakow, Kopernika 40, I Klin. Chir.

(INTESTINAL OBSTRUCTION, exper.
eff. of postop. chemother. (Pol))
(CHEMOTHERAPY, in various dis.
exper. intestinal obstruct. (Pol))

BAK, Stefan

Surgical treatment of chronic diseases of the pancreas. Polski
przeł. chir. 28 no.1:63-71 Jan 56.

1. Z II Kliniki Chirurgicznej A. M. w Krakowie Kierownik: prof.
dr. K. Michejda Krakow, ul. Kopernika 40.

(PANCREAS, dis.

surg. for chronic dis. of pancreas. (Pol))

BAK, Stefan

Case of bleeding ulcer after gastrectomy. Polski przegl. chir.
28 no.1:75-76 Jan 56.

1. Z II Kliniki Chirurgicznej A. M. w Krakowie.

(PEPTIC ULCER, perforation
surg., gastrectomy, postop fatal hemorrh. (Pol))

(STOMACH, surg.
gastrectomy for perf. of peptic ulcer, postop.
fatal hemorrh. (Pol))

(HEMORRHAGE,
gastrointestinal, after gastrectomy for perf. of
peptic ulcer. (Pol))

EXCERPTA MEDICA Sec.18 Vol.1/5 Cardiovascular May 57

1480. BAK S. 2 Klin. Chir. A. M., Kraków. Epinefrektomia w zarostowych zmianach tętnic (Thromboangiitis obliterans) *Epinephrectomy in thromboangiitis obliterans* Pol. Przegl. chir. 1956, 28/5 (501—506)

After a discussion of the theoretical and clinical indications for epinephrectomy in cases of thromboangiitis obliterans, the author comments on the short-term results obtained in a material of 16 patients operated on in the course of the last 2 years. Epinephrectomy was performed together with lumbar sympathectomy. Three cases are described. In one, with gangrenous changes in the limbs, the procedure had no effect on the morbid process. In the 2nd, with far-advanced changes, an immediate cure was obtained. In the 3rd, changes appeared in the second limb after a lapse of 18 months. On the whole, better results were obtained than in patients who were subjected to sympathectomy alone. The author, discussing the operative technique, recommends examination of the adrenals in every case in which sympathectomy is to be performed. (IX, 18)

EXCERPTA MEDICA Sec.9 Vol.11/8 Surgery Aug 1957

4292. BAK S. II Klin. Chir. A. M., Kraków. *Rola wątroby w przebiegu niskiej
nieprzeżności jelitowej. The role of the liver in low intestinal
obstruction POL. PRZEGL. CHIR. 1956, 28/9 (899-924) Tables 5 illus. 22
Experimental investigations were carried out in 30 dogs in order: (a) to trace the

1. 2 II Kliniki Chirurgicznej A.M.
w Krakowie Kierownik: prof. dr.
K. Michejda Krakow, ul. Kopernika
40.

4292

CONT.

detoxicating function of the liver, (b) to examine enterogenic haematogenous infection and (c) to examine the role of the reticuloendothelial system. The experiments are described in detail and a short analysis is given of the pathophysiological changes during intestinal obstruction. On the basis of the results of this research, indications are given for pre- and post-operative care in patients with intestinal obstruction.

BAK, S.

SWIDERSKI, A.; BAK, S.

Surface thermometer for the measurement of skin temperature in pathological changes of the lower extremity. Polski przegl. chir. 29 no.1:63-68 Jan 57.

1. Z I Kliniki Chirurgicznej A.M. w Krakowie Kierownik: prof. dr. J. Bogusz. Krakow, Kopernika 40. = Adres autora.

(VASCULAR DISEASES, PERIPHERAL, physiology, temperature of skin surface of leg, special thermometer (Pol))

(THERMOMETERS, surface thermometer for determ. of skin temperature in arterial dis. of leg (Pol))

BAK, Stefan

Interpretation of vascular x-ray pictures. Polski przegl. chir.
29 no.3:235-237 Mar 57.

1. Z I Kliniki Chirurgicznej A.M. w Krakowie Kierownik:
prof. dr. J. Bogusz. Adres autora: Krakow, ul. Kopernika
40.

(ANGIOGRAPHY
interpretation (Pol))

~~BAK, Stefan~~; BOZEK, Piotr; BUTELSKI, Włodzimierz; KRUPINSKA, Maria; WASOWICZ,
Stefan

Studies on Hoyer's arteriovenous anastomoses. Polski przegl. chir.
29 no.4:339-348 Apr 57.

1. Z I Kliniki Chirurgicznej A. M. w Krakowie Kierownik: prof. dr
J. Bogusz. Adres autorow: Krakow, ul. Kopernika 40, I Klin. Chir.
(BLOOD VESSELS, anatomy and histology,
Hoyer's arteriovenous anastomoses (Pol)).

EXCERPTA MEDICA SEC 18-Vol 3/1 Cardio. Dis. Jan 59

236. *Influence of arterial blood pressure on the development of experimental arteriosclerosis* Wpływ tętniczego ciśnienia krwi na rozwój doświadczalnej miażdżycy tętnic. BAK S., OSTROWSKA A., SOCHA W. and TUTAJ L. I. Klin. Chir. A. M. Kraków *Pol. Tyg. Lek.* 1958, 13/12 (421-425) illus. 8

Existing views are discussed, with reference to the literature and the technique of investigations on dogs is described. An increased blood pressure in the right posterior extremity was induced by the operative method: the left iliac artery was sectioned and then terminal-lateral anastomosis with the right external iliac artery was performed. In this way the blood pressure in the right femoral artery increased by 10-30 mm. Hg, while in the left artery (ligature) it decreased by 20-30 mm. Hg and in the arteries of the forelimbs it remained unchanged. Eight dogs were fed for 3-8 months with cholesterol and methylthiouracil. Arteriosclerotic lesions were found in 5 dogs. The intensity of lesions in the right iliac artery, femoral artery and aorta was similar. The arteriosclerotic lesions and their development are described. The arteriogram and a microphotograph are included. (11, 18)

BAK, Stefan; SKAWINSKI, Stefan

Transplantation of large arteries. Polski przegl. chir. 32 no.10:
991-1000 '60.

1. Z II Kliniki Chirurgicznej A.M. w Krakowie Kierownik: prof.
dr K. Michejda i z I Oddziału Chirurgicznego Szpitala P.K.P.
Ordynator: doc. dr St. Bak.

(ARTERIES transpl)

BAK, Stefan; PEIKER, Wojciech

Changes of the cervico-thoracic spine in "Raynaud's syndrome."
Chir. narzad. ruchu ortop. Pol. 30 no.4:397-400 '65.

1. Z Poradni Chorob Naczyn Krwionosnych Wojewodzkiej Przychodni
Specjalistycznej w Krakowie (Dyrektor przychodni: dr. med. M.
Cieckiewicz).

GIL'BIKH, G.S., inzh.; MUKOSEYEV, Yu.L., prof.; NIKULIN, Yu.P., inzh.; BAK, S.I.,
inzh.

Electric power supply of oil well drilling rigs. Precm. enserg. 20
no.10:28-34 0 '65. (MIRA 18:10)

1. Kazanskoye-otdeleniye Gosudarstvennogo proyektного instituta
"Elektroproyekt" (for Gil'bikh). 2. Gor'kovskiy politekhnicheskiy
institut (for Mukoseyev). 3. Trest Tuymazaburnefi', Bashkirskaya
SSR (for Nikulin). 4. Institut Bashnefteproyekt (for Bak).

POLAND

BUBIEN, Zenon, Dr. and BAK, Tadeusz, Chair of Pharmacology (Katedra Farmakologii) of the Veterinary Division (Wydział Weterynaryjny) (Director: Docent, Dr. Tadeusz GARBULINSKI) and of the Chair of Feed Science (Katedra Paszoznawstwa) of the Zoology Division (Wydział Zoologii) (Dean of Science ("Opiekun naukowy"): Prof. Dr. Mieczysław CENA), both of the WSR [Wyższa Szkoła Rolnicza, Higher School of Agriculture] in Wrocław

"Mass Contraction of Disease by Cattle and Sheep in Consequence of Grazing on Stubbles."

Warsaw-Lublin, Medycyna weterynaryjna, Vol 18, No 12, Dec 62, pp 739-741.

Abstract: Author discusses diseases of cattle and sheep (also horses) as a result of grazing on after-harvest stubbles, particularly of rye and wheat, when the stubbles contain considerable grain, particularly at the germinating stage. Author reports his study of incidence, reports clinical manifestations and postmortem finding, and cautions against indiscriminate feeding of cattle on this stubble. Of the 11 references, one is German, the others Polish.

1/1

BAK, W.

"Cadres decide everything." p.323. (MATERIALY HUDOWLANE Vol 9, No. 12,
Dec. 1954. Warszawa, Poland)

SO: Monthly List of East European Accessions. (EEAL). LC. Vol. 4. No. 4.
April 1955. Uncl.

DUDKOWSKI, Leszek; BAK, Zofia; OBRAPALSKA, Ewa

Histological picture of perifistular granulations. Gruzlica 33
no.8:713-715 Ag ' 65

1. Z Dziecięcego Ośrodka Sanatoryjno-Prewentoryjnego w Rabce
(Dyrektor: dr. med. J. Rudnik).

KRIVCHENKO, A.A., inzh.; BAKA, A.V., inzh.

Effect of the rate of the giant jet movement along the
face on the output capacity of hydraulic breaking.
Ugol' Ukr. 6 no.8:17-18 Ag '62. (MIRA 15:11)

1. Donetskii nauchno-issledovatel'skiy ugol'nyy institut.
(Hydraulic mining)

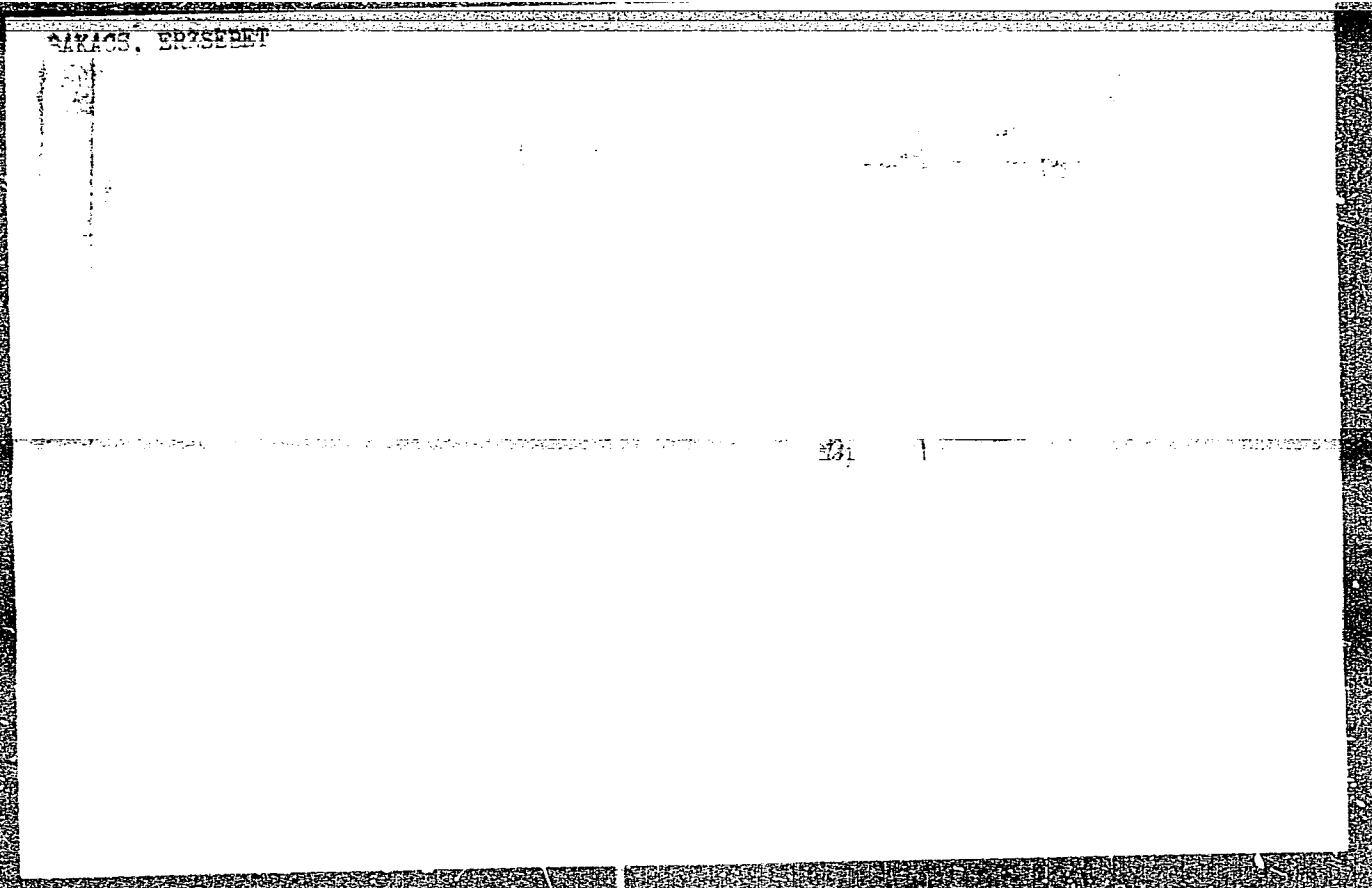
BAKA, Janos (Budapest, XX., Terok Floris u.11); SZABO, Attila

Here radio amateurs are speaking. Radiotechnika 12 no.11:377
N '62.

1. Beloiannisz Híradastechnikai Gyar muszaki ellenore.
(for Szabo).

BAKA, Sandor, dr.; SARTORY, Laszlo

The electric lighting of Budapest is seventy years old.
Elet tud 18 no.48:1507-1511 1 D '63.



BAKACS, E.

Determination of phosphate ions by using a standard solution of magnesium sulfate. p. 641

Vol. 11, no. 11, Nov. 1955

PRZEMYSŁ CHEMICZNY. Warszawa

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

BAKÁCS, E.

3343. Rapid volumetric determination of sulphate ions with barium chloride. E. Bakács ~~Magyar Kém. Foly.~~
~~Kém. Foly.~~, 1955, 61 (2), 48-50. The determination is carried out at pH 10. Indicators are Eriochrome black T and Mg⁺⁺ masked with EDTA. At the end-point, Ba⁺⁺ displace Mg⁺⁺ from the complex and the Mg⁺⁺ change the colour of the indicator from blue to wine-red. *Procedure*—A soln. containing 0.005 to 0.01 g of SO₄²⁻ in H₂O (3 to 5 ml) is diluted with 1.5 times its vol. of ethanol. One drop of methyl red soln. is added, then dil. aq. NH₃ soln. until the colour is pale yellow, followed by 6 to 8 drops of buffer (NH₄Cl - aq. NH₃ soln.) and 0.015 to 0.020 g of Eriochrome black T mixed with KCl (1:100). The colour is changed to violet-red with 1 drop of 0.05 M MgCl₂ soln., then to greenish blue by the dropwise addition of 0.01 M EDTA. An equal vol. of CCl₄ is added and, while shaking, 0.01 M BaCl₂ is added dropwise, at first quickly, then slowly. Near the end-point the liquid is shaken after each drop. The colour change can be seen in the ring above the settled ppt. The determination can also be carried out in the absence of CCl₄. The common cations do not interfere, neither do traces of Cl⁻ or NO₃⁻. Phosphates can be determined in the same soln.

A. G. Pava.

Handwritten initials or signature.

BAKÁCS, E.

2

990. The volumetric determination of sulphate ions. L. Szekeres and E. Bakács (Univ. Agric. Sci., Budapest, Hungary). *Magyar Kém. Foly.*, 1955, 81 (10), 298-300.—When an ethanolic soln. of SO_4^{2-} containing a slight excess of CO_3^{2-} is titrated with BaCl_2 soln., BaSO_4 separates out slightly faster than BaCO_3 . The disappearance of CO_3^{2-} is shown by the colour change of phenolphthalein. Ether vapour excludes the air. *Procedure*—To the alkali sulphate (containing 0.05 g of SO_4^{2-}) in H_2O (3 to 5 ml), 0.1 N Na_2CO_3 is added so that the concn. of CO_3^{2-} is equiv. to, or is in slight excess over, the concn. of SO_4^{2-} ; ethanol (98 per cent.) is then added to give a 25 to 30 per cent. soln. Phenolphthalein (2 drops) and ether (10 to 20 drops) are added and the soln. is titrated with 0.1 M BaCl_2 until decolorised. The blank is determined similarly, the SO_4^{2-} being omitted. With 0.01 M BaCl_2 and Na_2CO_3 soln., the ethanol concn. should be 30 per cent., and 2 ml of ether should be added. A. G. Péro

BAKÁCS, E.

2709. The rapid volumetric determination of sulphate ions. E. Bakács and L. Szekeres (Univ. Agric. Sci., Budapest). *Magyar Kém. Foly.*, 1950, 69 (4), 135-139. The sample, containing ≈ 0.05 g of SO_4^{2-} , is dissolved in H_2O (3 to 5 ml). In the

presence of Cd^{2+} or Mn^{2+} , 0.1 N Na_2CO_3 is added to ppt. the hydroxides and until the colour is permanently pink to phenolphthalein. The pptn. is carried out at room temp. if Cd^{2+} are present, and in a hot soln. in the presence of Mn^{2+} . If Zn^{2+} , Al^{3+} , Bi^{3+} , Sn^{2+} or Sb^{3+} are present, 2 N NaOH soln. is added dropwise to ppt. the hydroxides and until the red colour to phenolphthalein becomes permanent. Acetic acid (0.01 N) is added to remove this colour, followed by sufficient ethanol to give a 30 per cent. soln. From a burette, 0.1 M Na_2CO_3 is added, in a vol. approx. equiv. to the SO_4^{2-} content, or in excess; the soln. is then titrated with 0.1 M $BaCl_2$ until the red colour disappears. A blank is carried out by using the same volumes of reagents as above. The accuracy depends on many factors; in the examples quoted, it was within ± 2 per cent. A. G. Pero

2

600

chem

MM
20

Polgar, Erzsebet Bakacsne

HUNGARY/ Analytical Chemistry. Analysis of Inorganic Substances. G-2

Abs Jour: Referat. Zhur.-Khimiya, No. 8, 1957, 27202.

Author : Erzsebet Bakacsne Polgar. Laszlo Szekeres.

Title : Titrimetric Determination of Arsenate Ions.

Orig Pub: Magyar kem. folyoirat, 1956, 62, No. 9, 296 - 298.

Abstract: The method of determination of AsO_4^{3-} in the presence of ions-oxidizers (BrO_3^- , IO_3^- , CrO_4^{2-}) was developed. The pH of the 40% ual alcohol solution to be analyzed is brought to the level of 10 (buffer solution of NH_4Cl-NH_4OH), the indicator eryochrome black T is added and the solution is titrated with $MgSO_4$ solution until the color changes from blue to reddish-violet. The precipitate $MgNH_4AsO_4 \cdot 6H_2O$ is forming at the titration.

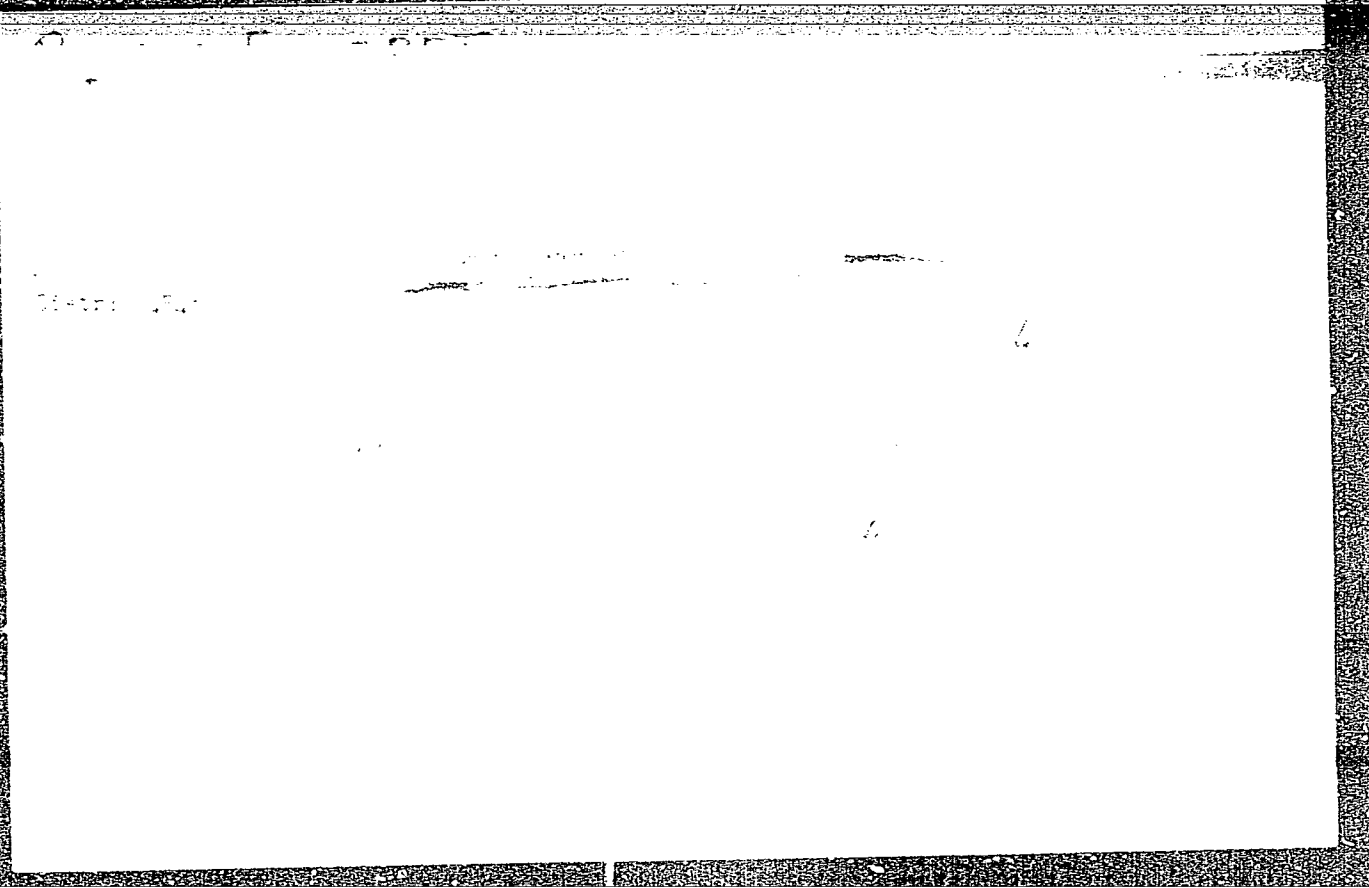
Card 1/2

HUNGARY/ Analytical Chemistry. Analysis of Inorganic Substances. G-2

Abs Jour: Referat. Zhur.-Khimiya, No. 8, 1957, 27202.

The average divergence of the titration results is 0.5%. The ions PO_4^{3-} and MnO_4^- interfere.

Card 2/2



BAKACH - POLGAR

HUNGARY / Analytical Chemistry. Analysis of Inorganic
Compounds. E

Abs Jour: Ref Zhur-Khimiya, No 16, 1958, 53407.

Author : Bakach-Polgar, Sekeres.

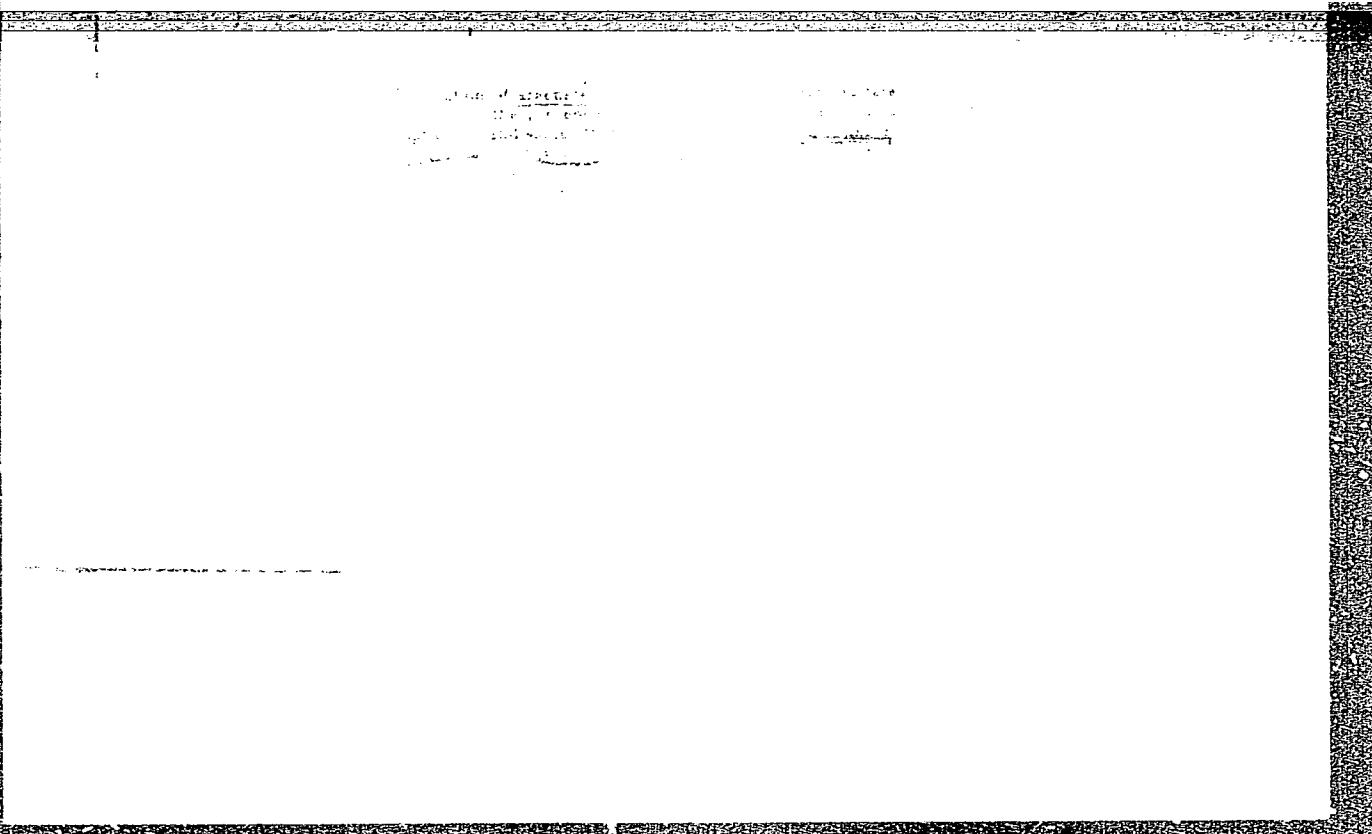
Inst : Not given.

Title : The Determination of Hydroxides of Basic Metals
in the Presence of Carbonates.

Orig Pub: Magyar kem. foly'oeat, 1957, 63, No 11, 325-326.

Abstract: The effect of foreign ions was studied in regard
to the accuracy in determining hydroxides of
basic metals (HBM) in the presence of carbonates.
The latter were precipitated with $BaCl_2$ and the
HBM titrated with a $ZnCl_2$ solution to the

Card 1/2



HUNGARY/Analytical Chemistry - Inorganic Analysis. E

Abs Jour : Ref Zhur Khimiya, No 20, 1959, 71222

Author : Bakacs - Polgar, E., Szekeres, L.

Inst : -

Title : The Determination of Alkali Metals' Bicarbonates and Carbonates in Mixtures

Orig Pub : Pharmaz. Zentralhalle, 1959, 98, No 1, 3-5; Magyar ken, lapja, 1958, 13, No 10-12, 448-449

Abstract : To determine bicarbonates and carbonates of alkali metals the analyzed mixture, containing ~ 0.04 g HCO_3^- , is dissolved in 3-5 ml of freshly boiled and cooled water, 15 ml 0.1 N NaOH (to convert HCO_3^- to CO_3^{2-}) and an excess of 0.1 M BaCl_2 solution (consisting of 0.25 g BaCl_2) are added, the mixture is agitated and allowed to stand for 3-5 minutes, a few drops of alcoholic phenothalein solution are added and the excess NaOH is titrated with 0.1 N ZnCl_2

Card 1/2

- 2 -

HUNGARY/Analytical Chemistry - Inorganic Analysis.

E

Abs Jour : Ref Zhur Khimiya, No 20, 1959, 71222

solution until the disappearance of the red tint of the solution. The HCO_3^- content is calculated from the difference between the amounts of added and back-titrated NaOH. Using the determination of HCO_3^- in synthetic solutions as an example it has been shown that the proposed method is more accurate than the method of direct titration of bicarbonates with NaOH solution (Ref Zhur Khimiya, No 17, 1958, 57143). --
A. Nemodruk

Card 2/2

BAKACS, E.

SCIENCE

PERIODICALS: ~~ACTA ZOOLOGICA, Vol. 64, No. 7/8 July/Aug. 1958~~
MAGYAR KEMIAI FOLYOIRAT, Vol. 64, no. 7/8, July/Aug. 1958

Bakacs, E. Review of newer titrimetric methods by precipitation. p. 232

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2
February 1959, Unclass.

BAKACSNE (POLGAR) Erzsebet; SZEKERES, Laszlo

Determination of phosphate and sulfate ions in the presence of metal impurities with special regard to fertilizers. Magyar Kem Lap 15 no.10:460-462 '60.

1. Allatorvostudományi Főiskola Kémiai Intézete és Agrártudományi Egyetem Kémiai Intézete.

DUX, Erno, dr.; BAKACSI, Gyula, dr.; KOVACS, Zoltan, dr.; PATAKI, Lajos, dr.

Studies on the thrombopoietic activity of the normal blood plasma and of the plasma of newborn infants exposed to repeated exchanged transfusions. (Preliminary report). Orv. hetil. 105 no.27:1276-1277 5 JI'64

1. Szegedi Orvostudományi Egyetem, Gyermekklinika (Igazgató: Boda, Domokos, dr.).

BAKACS, Tibor, dr.; ILLYES, Lajos, dr.

Three giant tumors. Orv. hetil 98 no.25:689-691 23 June 57.

1. Janos Korhas Rendelointezet (igazgato: Bakacs, Tibor, dr.)
kozlemeny.

(FACE, neoplasms
giant tumors, case reports (Hun))

BAKACS, Tibor, az rovistudományok kandidátusa, egyetemi tanár

Conference on sanitary engineering in the Hungarian socialist
agriculture. Magy tud 70 no.12:836-838 D'63.

1. Országos Közegészségügyi Intézet főigazgatója.

BAKACS. T. 1948

"The Incidence of Infantile Paralysis in 1947"

Orvosok Lapja, Budapest, 1948, 4/4(33-41)
Abst.: Exc. Med. 1V, Vol. 11, No. 5, P. 533

BAKACS, T, 1949

"Problems of Health Organization in Towns."

Nepegeszs, Budapest, 1949, 30(185-190)
Abst: Exc. Med. iV, Vol. 11, No. 9, p. 952

BAKACS, Tibor, dr.

Current problems of hygiene in the settlements on the shores of
the Balaton. *Nepegezségügy* 40 no.11:285-287 N '59.
(HYGIENE)

BAKACS, Tibor, dr.

City planning and hygiene with special regard to Budapest.
Elovilag 5 no.2:29-39 Ap-Je '60.

1. Orszagos Kozegeszsegugyi Intezet foigazgatoja.

BAKACS, T.

~~XXXXXXXXXXXX~~
Polioyelitis prophylaxis in Hungary. Acta microb.hung. 7 no.3:
329-336 '60.

1. State Institute of Hygiene, Budapest.
(POLIOMYELITIS immunol)

BAKACS, Tibor, dr.

Town planning and sanitation with special reference to Budapest.
Nepeszegeggy 41 no.6:149-156 Je '60.

(CITY PLANNING)

BAKACS, Tibor, as orvostudományok kandidátusa (Budapest)

Evaluation of the achievements of the hitherto applied poliomyelitis
shots. *Magy tud 67 no.7:397-410 J1 '60.* (EEAI 9:11)
(Poliomyelitis)

BAKACS, Tibor, dr.

Evaluation of the results of poliomyelitis vaccination. Orv. hetil.
101 no.20:685-691 15 My '60.

- NATL. PUBLIC HEALTH INST.*
1. Országos Közegészségügyi Intézet.
(POLIOMYELITIS immunol.)
(VACCINATION)

BAZSOK, Tiber

SURNAMES, Given Names

Country: Hungary

Academic Degrees: Dr.

Affiliation: Director of National Public Health Institute (Orszagos Kozegeszsegugyi Intezet)

Source: Budapest, Orvoskepzes, Vol 36, No 4, Aug 61, pp 297-317

Data: "Occurence of Typhoid in Hungary and its Communalhygienic Correlations."

GPO 981643

174

BAKACS, Tibor, dr.

Current status of water supply in our country. *Nepegeszssegugy* 42 no.6:
161-166 Je '61.

(WATER SUPPLY)

BAKACS, Tibor, dr.

Current status of epidemic hepatitis in Hungary. Orv. hetil. 102
no.17:779-783 23 Ap '61.

1. Orszagos Kozegeszsegugyi Intezet, Budapest.

(HEPATITIS INFECTIOUS epidemiol)

BAKACS, Tibor, dr.

The frequency of dysentery and some important intestinal infections in our country and their relation to communal hygiene. Nepegeszsegugy 43 no.5:129-139 My '62.

(DYSENTERY BACILLARY statist) (GASTROENTEROLOGY)
(SANITATION)

HUNGARY

BAKACS, T., BARB, K., KUBINYI, L., and TAKATSY, G. of the State Institute of Hygiene (Director: T. BAKACS), Budapest [Original version not given].

"Vaccination Against Influenza in Hungary, 1961-1962"

Budapest, Acta Microbiologica Academiae Scientiarum Hungaricae, Vol 9, No 4, 1962/63; pp 381-390.

Abstract [Article in English; authors' English summary]: The effectiveness of immunization with a subcutaneous influenza A-2 vaccine was estimated by the observation of 13,321 vaccinees and 24,455 control subjects. In the course of an influenza A-2 epidemic 3-4 months after the vaccinations 36.9% of the controls and 16.9% of the vaccinees contracted the disease. In the vaccinated group the average period of nursing was 40% shorter than in the control patients. Some features of the 1962 influenza epidemic which affected 23% of Hungary's population, are described. [Two Hungarian references].

1/1

BAKACS, T.; BARB, Katalin; KUBINYI, L.; TAKATSY, Gy.

Vaccination against influenza in Hungary. 1961-1962. Acta microbiol.
acad. sci. hung. 9 no.4:381-390/162.

1. State Institute of Hygiene (Director: T. Bakacs), Budapest.
(INFLUENZA VACCINE)

BAKACS, Tibor, az orvostudományok kandidátusa, egyetemi tanár

Quantitative and qualitative changes in the composition
of acute infectious diseases in Hungary. Magyar tud 69
no.8:501-510 Ag '62.

1. Országos Közegészségügyi Intézet, Budapest.

HUNGARY

BAKACS, Tibor, director of the State Institute of Hygiene, Budapest (original language version not given).

"The Control of Infectious Diseases With Regard to Economically Underdeveloped Countries."

Budapest, Acta Microbiologica Academiae Scientiarum Hungaricae, Vol X, No 2, 1963, pages 189-197.

Abstract:[English article] The article is a lecture presented at the UN Conference on the Application of Science and Technology for the Benefit of the Less Developed Areas, Geneva, 13 Feb 1963. The author makes a survey on the world-wide situation in the field of infectious diseases and compares the income, mortality and quality of medical care of various countries. The methods of infectious disease control and the classification of such diseases are discussed. Conclusions are drawn and a future plan is presented for the control of infectious diseases with special emphasis on the underdeveloped countries. 3 Western references.

1/1

6

BAKACS, Tibor, az orvostudományok doktora, egyetemi tanár

The newest diseases caused by urbanization. Magy tud 71 no.1:
28-36 Ja '64.

1. General Director, National Institute of Public Health, Budapest.

BAKACS, Tibor, az orvostudományok doktora

Some sanitary problems of water supply. Magy tud 72 no.2:98-112 F '65.

1. Director General, National Institute of Public Health, Budapest.

BAKACS, Tibor, dr.

The epidemiological situation in Hungary as reflected in international data -- analysis of structural changes. Orv. hetil. 106 no.9:385-393 28 F '65

1. Orszagos Kozegeszsegugyi Intezet (foigazgato: Bakacs, Tibor, dr.).

SZABO, Lajos, dr.; BAKACSI, Gyula, dr.

Our experience with sulfonamides for prolonged action.
Gyermekgyógyászat 11 no.1:13-18 Ja '60.

1. A Szegedi Orvostudományi Egyetem Gyermekklinika-jának
(Igazgató: Waltner Karoly dr. egyetemi tanár) közleménye.
(SULFONAMIDES ther)

BAKACSI, Gyula, dr.; GIMESY, Ferenc, dr.

Treatment of nephrotic syndrome in childhood. Gyermekgyógyászat
11 no.12:353-361 D '60.

1. Szegedi Orvostudományi Egyetem Gyermekklinikájának (Igazgató:
Waltner Karoly dr. egyetemi tanár) közleménye.
(NEPHROTIC SYNDROME in inf & child)

BAKACSI, Gyula, dr.; SZABO, Lajos, dr.; TROJAN, Emil, dr.; VIRAG, Istvan, dr.

On the problem of acute osteomyelitis in infants and children. Orv.
hetil. 103 no.5:205-207 F '62.

1. Szegedi Orvostudományi Egyetem, Gyermekklinika.

(OSTEOMYELITIS in inf. & child.)
(ANTIBIOTICS therapy) (CORTISONE therapy)

SZORADY, I.; HAGY, M.E.; BAKACSI, G.

Pantothenic acid: Its metabolic effects in normal children. Acta
paediat. acad. sci. Hung. 5 no.2:241-242 '64.

1. Department of Paediatrics (Director: Prof. D. Boda), University
Medical School, Szeged.

BAKADOROV, P.

The committee has many cares. Sov. profsciuzy 19 no.13:16-17 J1
'63. (MIRA 16:9)

1. Predsedatel' profsoyuznogo komiteta Slavyanskogo proizvodstvennogo
kolkhozno-sovkhoznogo upravleniya, Krasnodarskiy kray.
(Slavyanskiy District (Krasnodar Territory)--Agriculture)
(Slavyanskiy District (Krasnodar Territory)--Trade unions)

BAKAI, E.; PINTER, I.

Fluothane anesthesia in orthopedic surgery in children. Ortop.,
travm. i protez. 24 no.11:24-28 N '63.

(MIRA 17:10)

1. Iz ortopedicheskoy kliniki (dir. - prof. A. Glauber) Budapesht-
skogo meditsinskogo universiteta.

PAKAI, I.

Comparison of the more important properties of adhesives used in the wood industry.

p. 25. (FAIPAR) Budapest, Hungary Vol. 7, No. 1, A pr., 1957

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

COUNTRY:	: Hungary	H-29
CATEGORY	:	
ABS. JOUR.	: RZKHAN, No. 22 1959 No.	80351
AUTHOR	: Bakai, I.	
INSTR.	: Not given	
TITLE	: On the Principal Properties of Urea-Formaldehyde Adhesives	
ORIG. PUB.	: Faipar, 8, No 4-5, 124-126 (1958)	
ABSTRACT	: A characterization is given of the urea-formaldehyde adhesives Arbukel H and FKS (containing 65 and 50% solids, respectively) produced in Hungary, the technique of forming the glued joints and the properties of the latter are also discussed. L. Pecin	
CARD:	1/1	

HUNGARY

BELADI, Ilona, PUSZTAI, Rozalia, BAKAI, Marta, MUCSI, Ilona; Medical University of Szeged, Institute of Microbiology (director: IVANOVICS, G.) (Szegedi Orvostudományi Egyetem, Mikrobiológiai Intézet).

"Effect of Tannic Acid on Different Viruses."

Budapest, Acta Microbiologica Academiae Scientiarum Hungaricae, Vol XII, No 4, 1965/66, pages 327-335.

Abstract: [English article, authors' English summary modified] The effect of an aqueous solution of commercial tannic acid on different viruses has been examined. Herpesvirus hominis, Herpesvirus suis and type 3 of para-influenza virus were found to be sensitive while poliovirus types 2 and 3, and adenovirus types 3, 4 and 6 were found to be resistant to tannic acid. Tannic acid appeared to have a virucidal action. When tannic acid was added to cells infected with Herpesvirus hominis, viral multiplication was enhanced rather than inhibited. A decreased sensitivity to herpesviruses was exhibited by cells treated with tannic acid prior to infection. The antiviral effect of tannic acid is thought to be related to the polyanionic nature of the compound. 2 Hungarian, 28 Western references. [Manuscript received 29 Jul 65.]

HUNGARY

PUSZTAI, Rozalia, BELADI, Ilona, BAKAI, Marta, MUCSI, Ilona, KUKAN, Eszter;
Medical University of Szeged, Institute of Microbiology (director: IVANOVICS,
G.) (Szegedi Orvostudományi Egyetem, Mikrobiológiai Intézet).

"Study of the Effect of Flavonoids and Related Substances I. The Effect of
Quercetin on Different Viruses."

Budapest, Acta Microbiologica Academiae Scientiarum Hungaricae, Vol XIII,
No 2, 1966, pages 113-118.

Abstract: [English article, authors' English summary modified] The effect
of quercetin on different viruses has been studied. Herpesvirus hominis,
Herpesvirus suis, type 3 of the parainfluenza virus and the Sindbis virus
were found to be sensitive to quercetin. The sensitivity of type 1 poliovirus
was moderate while types 2 and 3 of the poliovirus and types 3 and 4 of the
adenoviruses were completely resistant. Being active only against the extra-
cellular virus, quercetin was considered to have a virucidal effect. The
effect of morin on Herpes suis was identical with that of quercetin while
rutin was almost completely ineffective. 3 Hungarian, 14 Western references.
[Manuscript received 27 Oct 65.]

1/1

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

Formation of an uniform country organization for the Federa-
tion of Technical and Scientific Associations. Pecszi musz
szemle 8 no.4:19-23 0-D'63.

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

BAKAKEYEV, V.N. assistant

Experimental investigation of vibrations in a model guy derrick
of the ESH-14/75 excavator. Sbor.trud. MISI no.31:162-166 '60.
(Excavating machinery) (MIRA14:3)

BAKAKIN, A.

The Television Center of the Tomsk Polytechnical Institute, A. Bakakin, Tomsk.
Radio no 5, p 46, May 53.

A group of radio amateurs and students of the institute under the direction of V.S.Melikov, Assistant of the Physico-Technical Faculty, built a small TV center which began exptl transmissions 18 months after it was begun. At present, efforts are being made to increase the video transmitter power and to raise the definition to 625 lines.

255T110

BAKAKIN, A.A.; PASECHNIK, A.F., red.; RUBINOVA, L.Ye., tekhn.red.

[Television in Tomsk] Televidenie v Tomsk. Tomsk, Tomskoe
knizhnoe izd-vo, 1959. 48 p. (MIRA 13:12)

1. Direktor Tomskogo teletsentra (for Bakakin).
(Tomsk--Television)

ACCESSION NR: AP4042499

S/0103/64/025/007/1134/1139

AUTHOR: Bakakin, A. V.; Bermant, M. A.; Yezerov, V. B.

TITLE: Application of systems with variable structure to the stabilization of a plant with changing parameters when displacement of a control element is constrained

SOURCE: Avtomatika i telemekhanika, v. 25, no. 7, 1964, 1134-1139

TOPIC TAGS: variable structure control system, plant stabilization, control system stability, second order differential equation

ABSTRACT: A study is made of the dynamics of an automatic control system with a variable structure. The system is described by a differential equation in the form

$$\ddot{\phi} - b(t)\dot{\phi} = a(t)\mu + F(t); \mu = u(\phi, \dot{\phi})K\omega,$$

where ϕ is the relative deviation of a controlled coordinate, μ is the relative deviation of the controller, $F(t)$ is a disturbing force, and K is a positive constant (gain factor) which is applicable to

Card 1/2