

KOZIAK, Roman, inz.

Focusing solid and hollow electron beams by a periodic electrostatic field. Sbor vak elektrotech 4:76-89 '64.

1. Research Institute of Vacuum Electrical Engineering, Prague.

KOZIAR, A.

GODLEWSKI, J.; KOZIAR, A.

Clinical value of determination of penicillin and streptomycin sensitivity of pathogenic strains in otitis media in infants. Polski tygod. lek. 7 no. 36:1086-1091 8 Sept 1952. (CML 23:5)

1. Of Wroclaw Municipal Pediatric Hospital (Head--Head-Physician-Jozef Godlewski, M.D.)

YUGOSLAVIA

Lj. KOZIC, B. MARKOVIC, N. KNEZEVIC and M. BOJINOVIC, Department of Animal Breeding and Health, Institute for Preventive Veterinary Medicine (Odeljenje za gajenje i zdravstvenu zastitu zivine, Institut za preventivnu veterinarsku medicinu), Belgrade.

"Infectious Sinusitis (Chronic Respiratory Disease) in Turkeys."

Belgrade, Veterinarski Glasnik, Vol 17, No 2, 1962; pp 145-148.

Abstract [English summary modified]: Description of outbreak involving 140 birds in turkey farm housing 400 domestic and 400 American Bronze turkeys. Mortality below 5%. Clinical, pathological and serologic as well as microbiologic (*Mycoplasma* sp. grown after 5 days' incubation on Edwards medium) confirmation of this as first Yugoslav outbreak of CRD, attributed to contaminated eggs in imported batch from US. Five US and 1 German reference.

1/1

KOZIARSKI, Andrzej, mgr inż.

Utilization of UPS universal composed instruments in the
J. Strzelczyk Mechanical Works. Mechanik 37 no.4:236 '64.

1. J. Strzelczyk Mechanical Works, Lodz.

KOZIARSKI, Andrzej, mgr inż.

Utilization of UPS universal composition instruments in the
J. Strzelczyk Mechanical Works. Mechanik:Suppl.:Wied przem
obrab narz 6 no.5:295-297 My'64.

1. J. Strzelczyk Mechanical Works, Lodz.

KOZIC, L.

"T. B. in cattle." Internal Clinic, Vet. Fac., U. of Beograd," .

Vet: Glasnik 5, 430-439, 1951

KOZIC, L.

"Capillaria plica infestation in dogs."

Vet: Glas. 6, 517-519, 1952

LONGHINO, A.; KOZIC, M.

Controlled hypotension in neurosurgery. Acta chir. iugosl. 1 no.3:
257-264 1954.

1. Kirurska klinika Medicinskog fakulteta u Zagrebu (predstojnik
prof. dr. D.Juzbasic)

(HYPOTENSION

controlled, in neurosurg,)

(NEUROSURGERY

controlled hypotension)

KOZIC, Matija Dr.

Surgical therapy of ischias. Lijec.vjes.76 no.9-10:580-584 1954.

1. Iz Kirurske klinike Medicinskog fakulteta u Zagrebu.

(HIP, dis.

ischias, surg.(Ser))

KOZIC. M.

Surgical treatment of hydrocephalus. Acta chir.iugosl. 2 no.2-3:
176-184 1955.

1. Kirurska klinika Medicinskog fakulteta u Zagrebu (Predstojnik
prof. dr Dimitrije Juzbasic)
(HYDROCEPHALUS, surg.
teckhnics & results (Ser))

.. KOZIC, M.; PLEVKO, O.

Corticography in surgical treatment of epilepsy. Acta chir.
iugosl. 2 no.4:305-312 1955.

1. Kirurška klinika (Predstojnik prof. dr. D. Juzbasic) i
Neuropsihijatrijska klinika (Predstojnik prof. dr R.Lopasic)
Medicinskog fakulteta u Zagrebu.

(EPILEPSY, surg.

electroencepholography in, method (Ser))

(BRAIN, radiography,

electroencepholography in surg. for epilepsy, method (Ser))

GVOZDANOVIC, V.; HAMERSAK, B.; KOZIC, M.

Experience with encephalography with small amount of air.
Neuropsihijatrija 3 no.2:77-91 1955.

1. Iz Zavoda za rentgenologiju i radium terapiju (Pred: Prof.
dr. M. Smokvina) i Kirurske klinike (Pred: Prof. dr. D. Juzbasic)
Medicinskog fakulteta u Zagrebu.

(BRAIN, radiography,
encephalography with small amount of air.)

DOGAN, S.; KOZIC, M.

Tumor of cerebellum. Neuropsihijatrija 3 no.3-4:269-270
1955.

1. Iz Neurolosko-psihijatrijske klinike i Neurokirurskog
odjela, Kirurske klinike Med. fakulteta u Zagrebu.
(CEREBELLUM, neoplasms,
diag. & surg. (Ser))

NOVAK, Z.; GVOZDANOVIC, V.; KOZIC, M.

Case of tuberculoma of the frontal lobe. Neuropsihijatrija
3 no.3-4:270-272 1955.

1. Iz Neurolosko-psihijatrijske klinike, Zavoda za rentgenologiju
i radium terapiju i Neurokirurskog odjela Kirurske klinike
Medicinskog fakulteta u Zagrebu.

(FRONTAL LOBE, diseases,
tuberculoma, diag. & surg. (Ser))

(TUBERCULOMA,
frontal lobe, diag. & surg. (Ser))

KOZIC, M.; PLEVKO, O.

General indications for surgical treatment of epilepsy.
Acta chir. iugosl. 4 no.2:168-171 1957.

1. Kiruska klinika (Predstojnik: prof. dr. Dimitrije Juzbasic)
i Neuropsihijatrijska klinika (Predstojnik: prof. dr.
Radoslav Lopasic) Medicinskog fakulteta u Zagrebu.
(EPILEPSY, surg.
indic. (Ser))

KOZIC, M.; HAMERSKA, B.; MIHALJEVIC, C.

Our experiences with intracranial tumors. Neuropsihijatrija
7 no.3:177-195 '59.

1. Iz Kirurske klinike Med. fakulteta u Zagrebu, Predstojnik:
dr. D. Juzbasic.
(BRAIN NEOPLASMS surg.)

KOZIC, M.; BERITIC, T.

Surgical treatment of bronchial asthma. Liječn. vjesn. 85 no.1:
72--73 '63.

(ASTHMA) (SURGERY, OPERATIVE)

S

OSVETLENJE, M.: Zagreb, H.

Auto-tomography. Neuronchirurgia II no.2:131-133 1983.

1. Iz Zavoda za radiologiju (predstojnik: prof. dr. J. Šmekvina)
i Kirurške klinike Med. fakulteta u Zagrebu (predstojnik: Prof.
dr. B. Jurišić).

KOZIC, Matija, dr.; GABRIC, Vladimir, dr.

Current views on the treatment and prognosis of cerebral
tuberculoma. Liječn. vjesn. 86 no.6:715-721 Je '64

1. Iz Kirurske klinike Medicinskog fakulteta u Zagrebu.

KOZIC, M.; FRANJIC, J.

Our experience with liquorrhea. Acta chir. Iugosl. 12 no.1:
12-22 '65.

1. Kirurska klinika Medicinskog fakulteta u Zagrebu (Predstojnik
prof. dr. D. Juzbasic).

YUGOSLAVIA

KOZIC, Lj.; and PETROVIC, M.; Veterinary Faculty (Veterinarski fakultet),
Belgrade.

"Omphalitis in Turkey Poults."

Belgrade, Veterinarski Glasnik, Vol 19, No 12, 1965; pp 931-934.

Abstract [English summary modified]: Field study of 3250 newly hatched
turkey poults: 585 died with signs of omphalitis, usually 50% within the
first 5 days. The condition was mostly due to gram-negative bacteria,
and improved hygiene and sanitation rapidly decreased deaths to an acceptable
level. Eleven Western references. Manuscript received 26 Aug 65.

CSO: 2000-N

1/1

- 99 -

YUGOSLAVIA

Lj. KOZIC, N. KNEZEVIC, B. MARKOVIC and B. NIKOLIC [Affiliation as above]

"Turkey Salmonellosis on a Farm."

Belgrade, Veterinarski Glasnik, Vol 17, No 2, 1963; pp 149-151.

Abstract : Severe outbreak of *Salmonella gallinarum* infection on large turkey farm, 28% mortality. Streptomycin i.m., change of quarters (birds had been overcrowded to 5 per square meter) and of feed arrested epizootic but flock had to be slaughtered. Only possible source of infection was concluded to be fish meal imported from South America. Two Western, 1 Czech and 1 Yugoslav reference.

1/1

KOZICH, KAREL

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and
Their Application, Part 3. - Food Industry.

H

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 72373.

Author : Vladimir Marecek, Karel Kozich, Anna Herbrychova.

Inst :

Title : Alimentary Keratin, Its Properties and Evaluation.

Orig Pub: Prumysl potraviny, 1957, 8, No 9, 489-491.

Abstract: It is shown that at the acid hydrolysis, keratin splits easier and more completely than casein and flour gluten. Glutamic and aspartic acids, serine, glycine and cystine appear first in the hydrolyzate, and amino acids of the leucine group, basic amine acids, valine, methionine and proline appear only later. It was found at a quantitative determination of amino acids in an keratin hydro-

Card : 1/2

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and
Their Application, Part 3. - Food Industry.

H

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1956, 72373.

lize that the content of alanine in it was greater than according to literature data. Besides, two spots of not identified amino acids appear near the serine spot on the two-dimensional chromatogram of keratin hydrolizate obtained after a prolonged hydrolysis. It was established that the most complete interception of nitrogen takes place at the burning of the sample by the Elek and Sobotka method.

Card : 2/2

129

LOZICH, K.; ~~PARACEK, V.~~

TECHNOLOGY

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

LOZICH, K.; PARACEK, V. Volatile fatty acids in soup flavoring ingredients.
p. 535.

Monthly List of East European Accessions (EMAI) LC Vol. 0, no. 5
May 1959, Unclass.

I 5131-66 EWT(1) / FS(v) - 3 DE
ACC NR: AP5027481

SOURCE CODE: UR/0219/65/060/010/0073/0076

AUTHOR: Andzhus, R.; Kozich, N.; Chirkovich, T.

ORG: Physiology Institute, Department of Mathematics and Natural Sciences, Belgrade University / (Institut fiziologiji yestestvenno-matematicheskogo fakul'teta Belgradskogo universiteta); Biology Institute, Belgrade (Biologicheskij institut)

TITLE: Some features of brain tissue metabolism in certain hibernating and non-hibernating animals during clinical death in deep hypothermia

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 60, no. 10, 1965, 73-76

TOPIC TAGS: animal physiology, biologic metabolism, brain tissue, hibernation, hypothermia

ABSTRACT: As part of a continuing investigation of metabolic processes in the brain during clinical death, a comparative study was made of changes in high-energy phosphates (creatinephosphoric acid, adenosine triphosphate [ATP], adenosine diphosphate [ADP], and adenosine monophosphate [AMP]) and products of anaerobic metabolism, especially lactic acid. Clinically dead rats and susliks with body temperatures of 0C and 15C were used. In addition, some animals in a state of hypothermia were subjected to asphyxia by pressing of the trachea. Asphyxiated rats with a body temperature of 15C showed the following biochemical changes: 1) the creatinephosphoric acid

Card 1/2

UDC: 616-036.882-06:617-001.18]-07:616.831-008.921.8-074-092.9

oo
Card 2/2

KOZICH, P.

Let us increase procurements and quality of animal products.
Mias. ind. SSSR 27 no.4:30-34 '56. (MLRA 9:10)

1. Ministerstvo promyshlennosti myasnykh i molochnykh
produktov SSSR.
(Animal products)

KOZICH, P.

Results of the first year of work of the Central Administration for the
Fattening of Cattle. Mias.imd. SSSR 33 [i.e.34] no.2:39-42 '63.
(MIRA 16:4)

1. Ministerstvo proizvodstva i zagotovok sel'skokhozyaystvennykh produktov
RSFSR, Glavnoye upravleniye po zagotovkam i otkormu skota.
(Beef cattle--Feeding and feeds)

1ST AND 2ND GROUPS 3RD AND 4TH GROUPS

PROCESSES AND PROPERTIES INDEX

15

Rapid Determination of Copper in a Nickel Electrolyte.
(In Russian.) V. V. Drozdov, S. Kozich, and A. L. Rotinyan. *Zavodskaya Laboratoriya* (Factory Laboratory), v. 13, Oct. 1947, p. 1256.
Compares volumetric methods, one direct and the other indirect. Results are tabulated and discussed.

COMMON ELEMENTS

MATERIALS INDEX

COMMON VARIABLES INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND GROUPS 3RD AND 4TH GROUPS

1ST AND 2ND GROUPS 3RD AND 4TH GROUPS

Kozich, Ye.S.

...the rate of electrolytic refining of metals...
 ...the effect of temp. on the rate of...
 ...the rate of deposition of an impurity at the...
 ...the rate of deposition of the base metal...
 ...the rate of conversional diffusion...
 ...the current of the impurity in the electrolyte...
 ...the current efficiency...
 ...depends only of α and n ...
 ...is practically independent of the temp...
 ...will be determined by hydrodynamic factors...
 ...depends on hydrodynamic factors and is little affected...
 ...by temp...
 ...the temp, current efficiency increases faster than K_{diff} ...
 ...decrease...
 ...the impurity and of the base metal is determined by retarded dis-
 ...charge...
 ...where $B = \frac{J_{ex}}{J_{ex}^{(0)}}$...
 ...where J_{ex} and $J_{ex}^{(0)}$ are the exchange currents...
 ...of the impurity and of the base metal with the activities of...
 ...and ψ_0 the standard electrode potentials, ν_1 the potential...
 ...ionic radius from the electrode surface, and a and b constant...
 ...whose sum equals 1. For simplicity ν_1 is assumed zero.

A. L. ROTINYAN

If current efficiency is 1 at all temps., the components of the equation, except B , do not depend on temp. To explain this, the expression for the exchange current, $J_0 = K_0(U_0 + a_{ox})^{-n} \exp(-U_0/RT)$ (equation 4), is substituted in equation 3. Here U_0 is the activation energy in the absence of a double layer and K_0 is the velocity const. Then, $B = (K_0 / K_{cat}) \exp(-U_0/a_{ox}) \exp(-U_0/RT)$ (equation 5). The value of B and hence of A , will increase or decrease with rise in temp., depending on whether a_{ox}/U_0 is smaller or greater than U_0 . Finally, if $a_{ox}/U_0 < U_0$, A will not depend on the temp. In the 4th case, the rate of deposition of the impurity is limited by retarded discharge while that of the base metal is limited by diffusion. This case has not been observed and is not discussed. The above propositions were confirmed by lab. tests on electrolytic repositioning of Ni. Exptl. conditions were: NiSO_4 0.9, Na_2SO_4 0.17, NaCl 0.81, H_2O 0.25 mole/l., pH 4.0, cathode c.d. 1.8 amp./sq. dm., cathode area 1.4 sq. dm., rate of electrolyte flow 60 ml./hr., impurities: CoSO_4 0.15×10^{-4} , ZnSO_4 0.031×10^{-4} , CuSO_4 0.038×10^{-4} , 0.163×10^{-4} , ZnSO_4 0.031×10^{-4} , 0.07×10^{-4} , $\text{Pb}(\text{OAc})_2$ 0.021×10^{-4} , MnSO_4 0.0×10^{-4} , 0.09×10^{-4} mole/l. The results agreed with those described in the previous paper. The Cu, Zn, and Pb content in the cathode remained const. with varying temp.; Al and Fe behaved similarly, although in the range 30-50°C, A decreased with increase in temp. in accordance with equation 5. Similar results were obtained with Au as impurity.

E. M. Elkin

KOZICH, E. S.

USSR/ Chemistry Analysis methods

Card : 1/1 Pub. 151 - 5/33

Authors : Rotinyan, A. L., Kheyfets, V. L., Kozich, E. S., and Kalnina, E. N.

Title : Composition of almost insoluble Ni-compounds deposited by alkali in a sulfate solution and standard isobaric potentials of their formation

Periodical : Zhur. ob. khim. 24/8, 1294 - 1302, August 1954

Abstract : The compositions of almost insoluble Ni-salts formed during the reaction of NiSO_4 solutions with alkali solutions, were determined by analyzing the $\text{pH} - \lg a^{\pm}$ curves. The results obtained were re-checked by analyzing the electro-conductivity curves of mother liquors during the deposition of the basic Ni-salts with alkali. The standard isobaric formation potentials of these compounds and the standard isobaric addition potential of Ni-sulfate to nickelous hydroxide, resulting in the formation of $3\text{NiSO}_4 \cdot 4\text{Ni}(\text{OH})_2$, were calculated. Twelve references: 9 USSR; 2 USA and 1 Czech (1936 - 1954). Table; graphs.

Institution :

Submitted : March 19, 1954

KOZICH, E. S.
USSR/Chemistry

Card 1/1 : Pub. 151 - 2/42

Authors : Kheyfets, V. L.; Rotinyan, A. L.; Kozich, E. S.; and Kalnina, E. N.

Title : Composition of hardly-soluble compounds separated out by alkali from Ni-salt solutions in the presence of boric acid

Periodical : Zhur. ob. khim. 24/9, 1486-1490, Sep 1954

Abstract : During the separation of Ni from mixed nickel sulfate and boric acid solutions, by means of alkali, the composition of the solid phase at the beginning of its formation was investigated by the potentiometric titration method. The composition of the solid phase, which was found to be in equilibrium with the solution, is described. Standard isobaric potentials of the formation of nickel diborate from ions and from nickelous hydroxide and boric acid, were computed. The effect of 50° temperature on the change in composition of the forming solid phase, is explained. Six USSR references (1950-1954). Tables; graphs.

Institution : ...

Subm. Date: 1954
APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825810018-8

Kozich, E. S.

USSR/ Chemistry - Physical chemistry

Card 1/1 Pub. 147 - 12/26

Authors : Rotinyan, A. L.; Zel'des, V. Ya.; Ioffe, E. Sh.; and Kozich, E. S.

Title : Potential of Ni deposition and the theory of the retarded ion discharge

Periodical : Zhur. fiz. khim. 28/1, 73-80, Jan 1954

Abstract : The polarization curves for Ni-deposition were measured and the cathode discharges along the metal were determined as a function of pH at different NaCl concentrations in the electrolyte. The potentials originating as result of NaCl addition to the solution were calculated by means of two separate methods. The effect of the Ni-ion activity in the electrolyte on the potential of Ni-deposition is explained. The results obtained were compared with the theory of the retarded discharge and found in perfect agreement with it. Twenty-four references : 21-USSR; 1-USA and 2-German (1916-1952). Table; graphs.

Institution :

Submitted : March 5, 1953

KOZICH, E.S.

AUTHOR KHEIFETS V.L., KOZICH E.S. and DANILOVICH O.M. PA - 2921
TITLE Rules Governing the Capture of Copper, Antimony, Lead, Cobalt,
Iron and Zinc Admixtures in the Cathode Deposit of Tin.
(Zakonomernosti vklucheniya medi, surimy, svintsa, kobalta,
zheleza i tsinka v katodnyy osadok o lova.- Russian)
PERIODICAL Doklady Akademii Nauk SSSR 1957, Vol 113, Nr 1, pp 138-141
(U.S.S.R.)
Received: 6/1957 Reviewed: 7/1957
ABSTRACT The possibility of a collective deposition of the admixtures
together with the principal metal depends on a number of
conditions: On the position of the standard potential in
relation to the potential of the principal metal, on the
value of their exchange currents and on the structure of their
alloy etc. Tin displays a high exchange current and is only
polarized to a low degree,
the position of copper in the potential series and a higher
exchange current left no doubt on the fact, that its influence
on the cathode deposit must result in a peak current. The only
admixture, the precipitation of which is limited by diffusion,
is copper. The precipitation of every other admixture is limited
by the discharge velocity. The latter, however, must be
separated into two groups, the first of which contains antimony

CARD 1/4

PA - 2921

Rules Governing the Capture of Copper, Antimony, Lead, Cobalt, Iron and Zinc Admixtures in the Cathode Deposit of Tin.

and lead. Antimony possesses a greater standard potential in than that of tin. A marked polarizability of the process leads to the precipitation of antimony being limited to the discharge stage. On this occasion it is necessary to take into consideration a polarization value, however small, of the tin discharge. Lead is closely related to tin with respect to these two properties. Therefore both admixtures must obey the rules for the case that the discharge velocity of the principal metal and of the admixtures is limited to the discharge stage. The dependence of the antimony contents in the cathode deposit upon its contents in the solution is expressed by a parabola-like curve in agreement with the theory. The dependence of the lead contents in the cathode deposit on current density rises sharply up to a current density of ≈ 220 amps/sqm. It changes little with a further increase after the diffusion resistance began to take effect. In the case of antimony, this dependence lacks entirely. Iron and cobalt are metals which are more electronegative than tin and, besides, have a lower exchange current. Zinc is a more negative

CARD 2/4

PA - 2921

Rules Governing the Capture of Copper, Antimony, Lead, Cobalt, Iron and Zinc Admixtures in the Cathode Deposit of Tin.

by 0,62 B in the potential series than tin, although it possesses a high exchange current and forms neither solid solutions nor chemical compounds with lead. It is only natural that on the one hand, the discharge velocity of this metal is determined by the velocity in the discharge stage, on the other hand, however, the liberation polarization of the principal metal because of its low value, is unable to exercise an essential influence on the inclusion of these metals into the deposit. The increased tin content in the electrolyte lead according to the theory, to a noticeable reduction of such admixtures in the cathode deposit, the separation velocity of which is determined by the discharge stage. From the table 1 it can be seen, that in the case of the discharge velocity of the principal metals being determined by the discharge, and the discharge velocity of the admixture by diffusion, the individual properties of the admixture and the principal metal cease to be of importance and the composition of the deposit is much richer in admixture substance than the

CARD 3/4

PA - 2921

Rules Governing the Capture of Copper, Antimony, Lead, Cobalt, Iron and Zinc Admixtures in the Cathode Deposit of Tin.

solution. In the case of a low polarizability of the separation of the principal metal and of the admixture with peak current the composition of the deposit proves to be identical to that of the solution. Finally, if the separation of the admixture is determined by the discharge stage.

The deposit is purer than the solution and the velocity of admission of the admixture depends on the individual properties of the admixture as well as of the principal metal.

(With 4 illustrations, 1 table, 3 citations from publications.)

ASSOCIATION: Scientific Institute for Research and Projecting of the Nickel - Cobalt and Tin Industry. Leningrad.

(Nauchno-iss ledovatelskiy i projectonyy institut nikelevoy, kobaltovoy i o lovyannoy prompyshlennosti, Leningrad.)

PRESENTED BY: A.N. FRUMKIN, member of Academy.

SUBMITTED: 1.8. 1956.

AVAILABLE: Library of Congress.

CARD 4/4

ACC NR: APT502577 (A, N) SOURCE CODE: UR/0413/66/000/023/0074/0074

INVENTOR: Gran', T.V.; Kolonina, N.P.; Kozich, Ye.S.

ORG: none

TITLE: Method for obtaining high-purity nickel by electrolytic refining. Class 40, No. 189154. [Announced by the Design and Scientific Research Institute of Gipronikel (Proektnyy: navchno-issledovatel'skiy institut "Gipronikel")]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 74

TOPIC TAGS: nickel ~~electrolytic refining~~, electrolytic refining, high purity ~~nickel~~ metal

ABSTRACT This Author Certificate introduces a method of electrolytic refining of nickel distinguished by the use of black nickel hydrates for removal of arsenic, lead, and zinc from the electrolyte. To obtain high purity nickel containing less than 0.0001% zinc and to reduce the consumption of black nickel hydrates, zinc is removed from the electrolyte, prior to the introduction of black hydrates, by the ion-exchange process.

UDC: 669.243.87:66.067.85 [AZ]

SUB CODE: 11/ SUBM DATE: 18Mar65/ ATD PRESS: 5113

Card 1/1

UDC: none

KOZICKA A.

REPTA MEDICA Sec 5 Vol 12/3 Gen. Path. Mar 59

HISTOPATHOLOGICAL INVESTIGATIONS ON THE TOXICITY OF BRUCELLA BOVIS - Badanie zjadliwości pałeczek Brucella metodą histopatologiczną
Kozicka A. and Parnas J. Zakł. Antropoz. Inst. Med. Pracy i Hig.
wsi, Lublin - PAT. POL. 1958, 9/2 (135-144) Illus. 3

On the basis of observations made on white mice infected with the Polish strain of Brucella bovis nr. 24, the authors claim that in investigations on the toxicity of Brucella bovis both histopathological and bacteriological studies are necessary. Histological examination makes it possible to detect the following changes in the various organs: (1) in the acute stage (1st-4th days) exudative inflammation with necrosis; (2) in addition to the changes of (1) also proliferative alterations in the stroma (3rd-6th days); and (3) necrosis and extensive proliferation of reticulo-endothelial cells (6th-9th days). The lungs were affected in all 3 stages: pronounced necrosis and cellular proliferation.

Kawecki - Wrocław (V, 4)

KOZICKA, Anna; PARNAS, Jozef

Microscopic and histopathological studies of organs from small rodents in the investigation of leptospirosis. Przegl. epidem., Warsz. 12 no.1: 9-13 1958.

1. Z Zakladu Antropozoonoz Instytutu Medycyny Pracy i Higieny Wsi.
(LEPTOSPIROSIS, pathology,
histopathol. & microscopic exam. of various organs of
rodents from epidemic area of swamp fever (Pol))
(RODENTS,
transm. of swamp fever, histopathol. aspects (Pol))

RYLL-NARDZEWSKI, Czeslaw; KUDEJKOWA, Teresa; KOZICKA, Anna

Hormonal disturbances in women affected with psoriasis. Ann.Univ.
Lublin; sec.D 14:271-276 '59.

1. Z Katedry Kliniki Dermatologicznej Wydziału Lekarskiego Akademii
Medycznej w Lublinie Kierownik: prof. dr med. Czeslaw Ryll-
Nardzewski i z Katedry Kliniki Położniczej i Chorob Kobięcych
Wydziału Lekarskiego Akademii Medycznej w Lublinie Kierownik: prof.
dr med. Stanislaw Liebhart.
(PSORIASIS physiol)
(VAGINAL SMEARS)
(SEX HORMONES physiol)

KOZICKA, ANNA

SURNAME, Given Names

Country: Poland

Academic Degrees:

Affiliation:

Source: Warsaw, Medycyna Weterynaryjna, Vol XVII, No 6, June 1961, pp 327-330

Data: "Leptospirosis in Dogs."

Authors:

TARKIENICZ, Stanislaw, docent dr., Faculty of Internal Medicine (Katedra Chorob Wewnętrznych), Veterinary Division (Wydział Weterynarii College of Agriculture (WSR--Wyzsza Szkola Rolnicza), Lublin; Director: Prof. Zdzislaw FINIK, Dr.

KRAKOWIAK, Teresa, presumed Department of Anthroponosis (Zakład Antropozoonoz), Institute of Occupational Medicine and Agricultural Hygiene (Instytut Medycyny Pracy i Higieny Wsi), location not given; Director: Prof. Jozef PARMAS, Dr.

KOZICKA, Anna

205

070 981643

KOZICKA, Anna; KUDENKO, Teresa

Studies on hormonal disorders in lupus erythematosus in women with the aid of Papanicolaou's method. Przegl. dermat. 48 no.8/10:99-104 '61.

1. Z Kliniki Położniczo-Ginekologicznej A.M. w Lublinie Kierownik: Prof. dr Stanisław Lióhart i z Kliniki Dermatologicznej A.M. w Lublinie Kierownik: Prof. dr Czesław Ryll-Nardzewski.

(LUPUS ERYTHEMATOSUS physiol)
(VAGINAL SMEARS) (ESTROGENS chem)

KOZICKA, Anna

31

Wasserman, Pracled Lekarski, Vol 18, Ser 2, No 4, 1962

1. "Early Diagnosis of Multiple Sclerosis. III. Notes on Other Symptoms," Vejsnik GIMNOZIKI of the Psychology Branch (oddruk z Vejsniko-psihologicko-anatomicko-patologicko-institutu Prof. Z. EKLICHOVICI, MD); pp 173-176 (English summary).
2. "Action of Antibiotics in Bacterial Obstruction," D. EKLICHOVICI, LANGRANIC, D. ROKALJ, and KAPLANIC, Diagn. Clinic for Internal Diseases (Klinika Gornobevstranyon) at Pirovski Directorate (III Klinika GIMNOZIKI) and of the Clinic of the Star Prof. Office (Zalud Mikroorganizma i Infekcija) at Pirovski Directorate (Sluzba IM (Infekcija i Infektivna Patologija) Pirovski Directorate 179-182. (English summary); pp 179-182. (English summary).
3. "Etiology of the SHENKOVSKI Disease and Its Role in the Etiology of the SHENKOVSKI Disease," Vejsnik GIMNOZIKI of the Medical Academy at Lublin (Gornobevstranyon) of the Pirovski Directorate (III Klinika GIMNOZIKI) and of the Vejsniko-psihologicko-anatomicko-patologicko-institutu Prof. Z. EKLICHOVICI, MD); pp 182-188. (English summary).
4. "Most Frequent Errors in Clinical Diagnosis Resulting from Wrong Interpretation of Serological Pregnancy Reactions," Jarko ROKALJ, and of the Medical Academy at Obotocig and Pirovski Directorate Dr. K. ROKALJ; pp 188-190. (English summary).
5. "Experiments of Quar Diagnosis with the Serological Method," Jarko ROKALJ, LJEKIC, LJEKIC, and DZEMELJ, Vejsnik GIMNOZIKI of the Medical Academy at Lublin (Gornobevstranyon) of the Pirovski Directorate (III Klinika GIMNOZIKI) and of the Vejsniko-psihologicko-anatomicko-patologicko-institutu Prof. Z. EKLICHOVICI, MD); pp 190-193. (English summary).
6. "Therapeutic Action of Preparation P 193 (Parantol)," II. ROKALJ, K. ROKALJ, and A. ROKALJ, Vejsnik GIMNOZIKI of the Medical Academy at Lublin (Gornobevstranyon) of the Pirovski Directorate (III Klinika GIMNOZIKI) and of the Vejsniko-psihologicko-anatomicko-patologicko-institutu Prof. Z. EKLICHOVICI, MD); pp 193-195. (English summary).

KUDEJKO, Teresa; KOZICKA, Anna

Cytological studies on hormonal disorders in women with skin diseases.
Przegl. dermat. 49 no.3:191-197 '62.

1. Z Kliniki Dermatologicznej AM w Lublinie. Kierownik: prof. dr
C. Ryll-Nardzewski [deceased] Z I Kliniki Położniczej i Chorob
Kobiet AM w Lublinie Kierownik: prof. dr. S. Liebhart.
(DERMATOLOGY) (VAGINAL SMEAR)

KOZICKA, Jadwiga (Warszawa)

Parasites in fish of the lake Goldapiwo. Wiadomosci parazyt.,
Warsz. 2 no.5 Suppl:207-208 1956.

1. Zaklad Parazytologii UW.
(FISH, diseases,
parasitic dis. (Pol))
(PARASITIC DISEASES, epidemiology,
in fish (Pol))

KOZICKA, Jadwiga (Warszawa)

Studies on the important parasitic diseases in fish based on 37 lakes of the Węgorzewo fisheries. Wiadomości parazyt., Warsz. 2 no. 5 Suppl:271-272.1956..

1. Zakład Parazytologii PAN.
(FISH, diseases,
parasitic dis. in Poland (Pol))
(PARASITIC DISEASES, epidemiology,
in fish in Poland (Pol))

KOZICKA, Jadwiga

Diseases in fish in Goldapiwo lake. Wiadomosci parazyt., Warsz. 4 no.5-6: 659; Engl. transl. 660 1958.

1. Z Zakladu Parazytologii PAN i Zakladu Parazytologii Un. Warsz. w Warszawie.

(FISH, diseases,
helminth infect. (Pol))
(HELMINTH INFECTIONS,
in fish (Pol))

KOZICKA, J.

Professor Wincenty Leslaw Wisniewski; an obituary, p. 3

KOSMOS. SERIA A: BIOLOGIA (Polskie Towarzystwo Przyrodnikow im. Kopernika) Warszawa. ✓
Vol. 8, no. 1. 1959

Poland

Monthly List of East European Accessions (EEAI) IC, Vol. 8, no. 7, July 1959.

Uncl.

KOZICKA, Jadwiga; NIEWIADOMSKA, Katarzyna

Tylodelphys podicipina sp. n. (Trematoda, Strigeidae) and its life cycle. Acta parasit 8 no.1/7:25-36 '60. (EEAI 9:10)

1. Department of Parasitology, Warsaw University Head: Prof. Dr. Wincenty L. Wisniewski and Department of Parasitology, Polish Academy of Sciences Head: Prof. Dr. Witold Stefanski. Author's address: Zaklad Parazytologii PAN Warszawa, Pateura 3.
(Trematoda) (Strigeidae) (Tylodelphys)

KOZICKA, Jadwiga

Metacercaria Neodiplostomum pseudattenuatum (Dubois, 1928) Dubois, 1932, syn. *Neodiplostomulum scardinii* Schulman (in Dubinin 1952).
Acta parasit Pol 8 no.21/32:369-377 '60.

1. Department of Parasitology, Polish Academy of Sciences. Head: Stefanski, Witold, prof., dr., member of the Polish Academy of Sciences.

KOZICKA, Jadwiga; NIEWIADOMSKA, Katarzyna

Studies on the biology and taxonomy of trematodes of the genus
Tylodelphys Diesing, 1850 (Diplostomatidae). Acta parasit Pol 8
no.21/32:379-401 '60.

1. Department of Parasitology, Polish Academy of Sciences. Head:
Stefanski, Witold, prof., dr., member of the Polish Academy of
Sciences.

GRABDA, E.; KOZICKA, J.

Parasitological problems of Polish fishery. Wiadomosci parazyt.,
7 no. 4/6:795-801 '61.

1. Zaklad Chorob Ryb WSR, Olsztyn i Zaklad Parazytologii PAN.
Warszawa.

(FISH parasitol)

KOZICKA, Jadwiga

Attempt of fishery-parasitologic estimation of the lakes of
the Węgorzewo Establishment. Acta parasit. Pol. 11 no.5/13:
113-131 '63.

1. Department of Parasitology, Polish Academy of Sciences,
Warsaw. Head: Prof. Dr. Włodzimierz Michajłow.

CZECHOSLOVAKIA / Human and Animal Physiology (Normal and
Pathological). Digestion.

T

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 60421
Author : Flussor, J.; Chvojkova, V.; Kozicka, V.
Inst : Not given
Title : Relation Between the Salivary Glands and Vitamin B
Complex. The Role of Saliva in Vitamin B₁₂ Utilization
Orig Pub : Coskosl. gastroenterol a vyziva, 1957, 11, No 2, 117-130
Abstract : No abstract given

Card 1/1

FLUSSER, J.; CHVOJKOVA, V.; KOZICKA, V.-----

Relationship between saliva and vitamin B12. (Contribution to the problem of the intrinsic factors). Cas.lek.cesk 100 no.7:199-205 17 F '61.

I. I. interni odd. Bulovky, prednosta primar MUDr. L. Symon. Statni sanatorium, reditel MUDr. F. Zavodny.

(VITAMIN B12) (SALIVA chem)

KOZICKA-NOWAKOWA, E.; SOKOŁOWA, J.

The effect of the comfrey mowing date upon the yields of green mass and its alimental constituents. Roczn. nauk roln. rosl 82 no.4:1041-1045 '61.

1. Stacja Hodowlano-Badawcza, Instytut Hodowii i Aklimatyzacji Roslin, Grodkowice i Katedra Zywienia Zwierzat, Wyzsza Szkola Rolnicza, Krakow.

POPIELARSKA, Aniela; KOZICKA-POIAK, Irena

Case of a tumor of the brain stem in a 3-year-old girl. *Pediat.*
pol 34 no.2:197-199 Feb 59.

1. Z II Kliniki Pediatricznej A. M. w Warszawie Kierownik: prof. dr
med. M. Michalowicz. Z-ca Kierownika: prof. dr med. T. Lewenficz-Woj-
narowska. Adres: Warszawa, ul. Litewska 16.
(BRAIN STEM, neoplasms,
case in child (Pol))

KOZICKA-POLAKOWA, Irena

A contribution on the arthritic changes in sarcoidosis based on an observed case. Reumatologia (Warsz) 3 no.1:81-87 '65.

1. Z Kliniki Pediatricznej Studium Doskonalenia Lekarzy i Instytutu Reumatologicznego (Kierownik: prof. dr. me. E. Wilkoszewski; Dyrektor Instytutu: dr. med. W. Bruhl).

KOZICKI, J.; TEKLIŃSKI, A.; LISOWSKA, Z. (Pulawy)

Experiments in producing a Newcastle disease immune serum as a by
product in poultry fattening. Rocznik nauki rolniczej 70 no.1/4:233
'60. (EEAI 10:9)

(Poultry) (Newcastle disease) (Immunity) (Serum)

GRABDA, Eugeniusz, prof.dr. (Olsztyn-Kortowo, O.S.R.); KOZICNA, J.

Parasitological problems of Polish fishery. Wlad parazyt 7 no.4/6:
795-801 '61.

1. Zaklad Chorob Ryb, Wyzsza Szkola Rolnicza, Olsztyn i Zaklad
Parazytologii, Polska Akademia Nauk, Warszawa.

KOZICKI, Leonard

Industrial safety and hygiene on tankers. Tech gosp morska
14 no.3:77-79 Mr'64

1. Zarzad Glowny Zwiasku Zawodowego Marynarzy i Portowcow,
Gdansk.

KOZIEJ, E.

Electric motors for home appliances. p. 78, Vol. 15, no. 4, Apr 1955, WIADOMOSCI
ELECTROTECHNICZNE

SO:MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), LC, Vol. 4, No. 9,
Sept. 1955, Uncl.

PUSTOLA, Jerzy, mgr inz.; KOZIEJ, Eugeniusz, mgr inz.

Universal frequency converter for laboratory use.
Pomiary 9 no.6:259-260 Je '63.

KOZIEJOWSKA, Krystyna; WIJAKOWSKA, Marta

Water absorption of tablet mass and tablet granulates and its effect on their disintegration and mechanical hardness. Ann. Univ. Lublin sect. D 19:219-227 ' 64.

1. Katedra i Zakład Farmacji Stosowanej, Wydział Farmaceutyczny AM w Lublinie (Kierownik: prof. dr. farm. Henryk Nerle).

LUTWIŃSKI, Jerzy; KOTLEW, Augustyna

Work capacity determination in the chemical industry in the
light of clinical and functional studies. Przegł. dem. pl
no.1410-89 Jan 1981

1. 2 Klinika Dermatologicznej Akademii Medycznej w Lubli
(Kierownik prof. dr J. Lutwiński).

RUZICA, M.; KOZIEL, M.

Cushing's syndrome on the basis of hyperplasia of the adrenal cortex in an 8-year-old patient. *Cesk. pediat.* 20 no.9:800-804 S '65.

1. Detske oddeleni (vedouci MUDr. M. Zak) a chirurgicke oddeleni Krajske nemocnice s poliklinikou v Ostrave (vedouci doc. dr. K. Typovsky, CSc.).

KOZIEJ, Marian

An attempt of determining the agricultural intensity in the suburban zone of a large city; a discussion. Postepy nauk roln 8 no.6:53-56 '61.

1. Katedra Ekonomiki i Organizacji Rolnictwa Wyzszej Szkoły Rolniczej - Krakow.

(Agriculture) (Efficiency, Industrial)

KOZIEJ, Marian

Certain factors controlling the intensification of peasant farming in the northern part of the Krakow Voivodeship. Postepy nauk roln 9 no.3:105-109 My-Je '62.

1. Katedra Ekonomiki i Organizacji Rolnictwa, Wyzsza Szkola Rolnicza, Krakow. Kierownik: prof. dr Jozef Kubica.

KOZIEJOWSKA, Krystyna; WIELUNSKA, Zofia

Comparison of biological values of preparations obtained from lily of the valley (*Convallaria majalis*). Ann.Univ.Lublin; sec.D 14: 315-319 '59.

1. Z Katedry Farmacji Stosowanej Wydziału Farmaceutycznego Akademii Medycznej w Lublinie Kierownik: doc. dr Henryk Nerlo.
(CONVALLARIA pharmacol)

NERLO, Henryk; KOZIEJOWSKA, Krystyna; TUREK, Antonina

Study on eutectic mixtures in pharmacy. Ann. univ. Lublin sec. D
15:455-463 '60.

1. Z Katedry i Zakładu Farmacji Stosowanej Wydziału Farmaceutycznego
Akademii Medycznej w Lublinie Kierownik: doc. dr farm. Henryk Nerlo.
(DRUG COMPOUNDING)

KOZIEJOWSKI, Stanislaw (Lublin, Kollataja 3 m 10)

Combined therapy of tuberculosis of the vagina and of the vaginal portion of the uterus. Gin. polska 25 no.1:9-14 Ja-Mr '54.

1. Z Kliniki Położnictwa i Chorob Kobietych Akademii Medycznej w Lublinie. Kierownik: prof. dr med. St. Lisbhart.
(TUBERCULOSIS, FEMALE GENITAL, therapy.)

*

TYNECKI, Jozef; BOCZKOWSKI, Zbigniew; KOZIEJOWSKI, Stanislaw

Examination of the uterus in pyretic puerperium. Ann. univ. Lublin
sec. D 15.389-395 '60

1. Z Katedry i II Kliniki Poloznictwa i Chorob Kobietych Wydzialu
Lekarskiego Akademii Medycznej w Lublinie Kierownik: doc. dr med.
Jozef Tynecki.

(PUERPERIUM compl)

(UTERUS surg)

KOZIEJOWSKI, Stanislaw; ZYCH, Mieczyslaw; GRUDZIEN, Maria; SEREWKO, Mieczyslaw

Results of the use of metergin in the 3d stage of labor. Polski tygod.
lek. 16 no.29:1116-1118 17 J1 '61.

1. Z II Kliniki Poloznictwa i Chorob Kobietych A.M. w Lublinie; kierownik:
doc. dr med. Jozef Tynecki.

(ERGOT ALKALOIDS ther) (LABOR)

KOZIEJOWSKI, Stanislaw; LEWANDOWSKI, Henryk [deceased]

2 cases of persistent epistaxis in pregnancy. Ginek. pol. 33 no.5:
623-626 '62.

1. Z II Kliniki Poloznictwa i Chorob Kobietych AM w Lublinie. Kierownik:
prof. dr med. J. Tynecki i z Kliniki Otolaryngologicznej AM w Lublinie,
Kierownik: prof. dr med. B. Dylewski.
(EPISTAXIS) (PREGNANCY COMPLICATIONS)

KOZIEL, Eugeniusz

Blood picture and antistreptolysin titer in nodular diseases of the leg. Przegl. dermat. 49:143-145 '62.

1. z Kliniki Dermatologicznej AM w Lodzi. Kierownik: prof. dr J. Lutwiocki.

(LEG DERMATOSES) (ANTISTREPTOLYSIN)
(BLOOD SEDIMENTATION) (VASCULAR DISEASES) (ERYTHEMA NODOSUM)
(TUBERCULOSIS CUTANEOUS) (PANNICULITIS)

LUTOWIECKI, Jerzy; KOZIEL, Eugeniusz

Modern methods of the treatment of syphilis in the light of data of a dermatological clinic. Przegł. derm. 49:291-293 '62.

1. Z Kliniki Dermatologicznej AM w Łodzi Kierownik: prof. dr J. Lutowiecki.

(SYPHILIS)

BAYKOWSKA-BOGDANSKA, B.; KOZIEL, I.E.

Variations in results of laboratory studies during the course of lupus erythematosus with special reference to the blood picture and myelogram. Przegl. dermat. 48 no.8/10:149-157 '61.

1. Z Kliniki Dermatologicznej A.M. w Lodzi Kierownik: Prof. dr J. Lutowiecki.

(LUPUS ERYTHEMATOSUS blood)
(BLOOD COAGULATION) (BONE MARROW)

KOZIEL, J.

How an industrial enterprise decreased power consumption taken from a district power network during the early evening hours, p. 40. (ENERGETYKA, Stalinograd, Vol. 9, no. 1, Jan./Feb. 1955.)

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

1ST AND 7TH ORDERS 1ST AND 6TH ORDERS

PROCESSES AND PROPERTIES INDEX

JA

A 53
B

2804. Numerically Rigid Conception of the Laplace-Oriani Statement. K. Kosiel. *Acad. Polonaise Sci. et Lettres, Bull.* 7-10.4. pp. 629-645, July-Dec., 1931. *In German.*—From the Laplace-Oriani statement of the refraction theory one can give that for zenithal distances (z_0) up to 75° the constitution of the atmosphere is practically without influence on refraction and the mean astronomical refraction (R) can be calculated from the formula, $R = \alpha(1 - \beta) \tan z_0 - \alpha(\beta - a/2) \tan^3 z_0$ where α is the so-called refraction constant and β is a geophysical constant. The accuracy of this formula is investigated and values are obtained of the maximum error of refraction at zenithal distances up to 75° . Also using $R = K \tan z_0$, where K is the refraction coefficient, values of K are set out for z_0 between 0° and 75° . From these two tables the accuracy of the equation for R is evident. The influence on refraction of increase in the temperature distribution in the atmosphere must also be contained within these tabulated values.

R. S. R

450-514 METALLURGICAL LITERATURE CLASSIFICATION

AS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

KOZIEL, K.

KOZIEL, K. The Moon's Libration and Figure as derived from Hartwig's Dorpat Heliometric Observations. Introduction. Chapter I-VI. Acta astronomica, Section A, 1948, v. 4, p. 61-82, 83-98, 99-139, 141-152, 153-177, 179-193.

KOZIEL, K.

30 years of the first-grade Meteorologic Station in Cieszyn and 100 years of meteorologic observations in Cieszyn. p. 53.

PRZEGLAD GEOFIZYCZNY. (Polskie Towarzystwo Meteorologiczne i Hydrologiczne)
Warszawa, Poland. Vol. 8, no. 1, 1955

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

Uncl.

KOZIEL, KAROL

5191 3
 1954
Obituary: Professor Dr. Tadeusz Hauschewicz
 (Obituary.) *Prace Matematyczne*
 1954, Warszawa, 4(2):110-113. DWH:BYC—Obituary of the late professor
 of Astronomy and Director of the Astronomical Observatory of the University of Cracow,
 member of the Polish Academy of Sciences (Feb. 13, 1882-Nov. 17, 1954). His greatest
 scientific contributions were made in the field of theoretical and observational astronomy and
 applied mathematics where he developed the concept and the Cracow school of algebra (used
 not only by astronomers and geodesists) but also by construction engineers. His greatest
 merit in the field of meteorology was his endeavor to support the continuance of uninterrupted
 series of observations and records, even during the last war, at the Krakow meteorological

station which is a branch of the Astronomical Observatory. Subject (readings): 1. Obituary
 2. Hauschewicz, Tadeusz—A.M.P.

W.M.T.

POLAND/Radio Physics - Radio Frequency Measurements.

I

Abs Jour : Ref Zhur Fizika, No 12, 1959, 28193

Author : Koziel, K.

Inst : ~~Warsaw~~

Title : On the Krakow Radio Telescope

Orig Pub : Postepy astron., 1958, 6, No 4, 148-149

Abstract : Brief communication on the history of the construction of the radio telescope of the Jagiellonian University 5 meters in diameter, on an equatorial mount, and operating since 1957 at a wavelength of 37 cm.

Card 1/1

- 100 -

88838

3,1550(1057,1062,1129)

P/010/60/008/002/002/002
D231/D301

AUTHOR: Kozieł, Karol

TITLE: The 20th century theory of lunar physical libration

PERIODICAL: Postępy astronomii, v. 8, no. 2, 1960, 101-105

TEXT: In 1936, Professor Tadeusz Banachiewicz suggested to Professor Rootsmäe of the Dorpat Observatory that several helio-metric observations of the moon as made by E. Hartwig be processed at the Cracow Observatory. After obtaining his consent and the manuscript of Hartwig's observations, Professor Banachiewicz passed on the task of processing the observation data to the author. In this article, the author gives a short report on his work (Ref. 1: "The Moon's Libration and Figure ...", Acta Astronomica, Sér. a, v. 4, Cracow, 1948-1949, 61-193). After short reference to classical works on celestial mechanics, the author proceeds to discuss the fundamentals of the physical theory of

Card 1/8

88838

P/010/60/008/002/002/002
D231/D301

The 20th century theory of ...

moon libration which he considers to be Euler's Equations of Motion for a rigid body, the integration of which results in determining the physical libration in terms of longitude τ , inclination ρ , and of the node σ . He treats τ , ρ , and σ as infinitesimals of the first order, representing deviations from Cassini's Laws which describe in approximation the rotational motion of the moon. The first two of Euler's Equations which permit the evaluation of ρ and σ , have been successfully solved both by Hayn and Jönsson, so that the author restricts his analysis to solving the third equation only; this permits evaluation of τ . In his analysis, the author uses the theory of lunar motion and the tables of Brown. Abstractor's note: No other reference is given to Brown. The problem of determining the physical libration in terms of τ is reduced, after many transformations of the third of Euler's Equations, to solving the differential equation

(1)
$$\frac{d^2\tau}{dt^2} + 0.9853 M'\gamma\tau = M'\gamma \sum H_1 \cdot \sin h_1 - \gamma pq +$$

Card 2/8

88938

The 20th century theory of ...

P/010/60/008/002/002/002
D231/D301

$$+ M'\gamma \sqrt{-0,161 \cos g \cdot \tau + 0,103 J\sigma \cdot \cos(2g + 2\omega)} + \frac{J}{2} \cdot \frac{d^2 J\sigma}{dt^2} \quad (1)$$

In the first approximation, all but the terms $M'\gamma \sum H_i \sin h_i$ of the right hand side of this equation are neglected during integration. It is pointed out that the evaluation of the coefficients H_i of this equation as based on the theory and tables of Brown, requires a very subtle analytical numerical analysis. This follows the fact that the simplified integral of Eq. 1 as given by Eq. 2

$$\tau = A \sin(a + t\sqrt{0,9853 M'\gamma}) - \sum \frac{M'\gamma H_i \sin h_i}{h_i'^2 - 0,9853 M'\gamma} \quad (2)$$

contains under the \sum sign, terms known in celestial mechanics as infinitesimal divisors, i.e. such divisors that $h_i'^2 - 0,9853 M'\gamma$ is very nearly zero. Such a divisor is the term with the argu-

Card 3/8

88838

The 20th century theory of ...

P/010/60/008/002/002/002
D231/D301

ment 2ω , where ω is the distance of the moon perigee from the ascending node of its orbit. In determining such terms, great precision is needed. As an illustration of this, an example of an auxiliary expansion is given which occurs when preparing to determine the terms in $\sum H_i \sin h_i$, containing the periodic values of the true longitude of the moon $L_c : \sum a_i \cdot \sin \alpha_i$, where

$$\alpha_i = c_1^{(i)} \cdot g + c_2^{(i)} g' + c_3^{(i)} \omega + c_4^{(i)} \omega',$$

$$c_1^{(i)}, c_2^{(i)}, c_3^{(i)}, c_4^{(i)} = 0, \pm 1, \pm 2, \dots$$

$$i = 1, 2, \dots$$

and g, g', ω and ω' denote the indirect arguments which are functions of time as in the notations of Hansen [Abstractor's note: No reference is given to Hansen] and are linked to Brown's argu.

Card 4/8

88838

The 20th century theory of ...

P/010/60/008/002/002/002
D231/D301

ments l, l', D and F by means of simple linear equations. This auxiliary expansion has the form

$$\begin{aligned} & \sum a_i \cdot \sin \alpha_i - \frac{1}{2} \sum a_i^3 (\sin \alpha_i - \frac{1}{3} \sin 3\alpha_i) - \\ & - \sum a_i^2 a_j \left[\sin \alpha_j - \frac{1}{2} \sin (2\alpha_i + \alpha_j) + \frac{1}{2} \sin (2\alpha_i - \alpha_j) \right] + \\ & + \sum a_i a_j a_k \left[\sin(\alpha_i + \alpha_j + \alpha_k) - \sin(\alpha_i + \alpha_j + \alpha_k) - \right. \\ & - \left. \sin(\alpha_i - \alpha_j + \alpha_k) + \sin(\alpha_i - \alpha_j - \alpha_k) \right] + \\ & + \frac{1}{12} \sum a_i^5 (\sin \alpha_i - \frac{1}{2} \sin 3\alpha_i) + \frac{1}{2} \sum a_i^4 a_j \\ & \left[\frac{1}{2} \sin \alpha_j - \frac{1}{3} \sin (2\alpha_i + \alpha_j) + \frac{1}{3} \sin (2\alpha_i - \alpha_j) \right] \end{aligned}$$

Card 5/8

88838

The 20th century theory of ...

P/010/60/008/002/002/002
D231/D301

After evaluating forced libration terms from Eq. 2, the second approximation in integrating Eq. 1 can be made immediately to obtain ζ , when it will be found that in the solution of Eq. 2, the neglected small terms produce slight errors only which can be added to the sum $\sum H_i \sin h_i$. Thus, the eventual coefficients resulting from the determination of physical libration in longitude ζ can be ascertained (Ref. 9: K. Koziel, op. cit. 81). The results obtained by the author agree basically with those obtained by Hayn in 1920. Certain differences in the value of the argument 2ω occur, however. The value of its coefficient f has been determined with particular care and found to be--for $f = 0.5$ -- equal to $-7''.5$; although differing from Hayn's findings, it has the same sign and proves, therefore, the result obtained by Jönsson to be erroneous. The results obtained permit a more accurate determination of the derivative $d\zeta/df$, required in reducing the libration observations of the moon

Card 6/8

88838

P/010/60/008/002/002/002
D231/D301

The 20th century theory of ...

$$\frac{d\gamma}{df} = \frac{M' \gamma H_i \sin h_i}{h_i'^2 - 0.9853 M' \gamma} \left[\frac{\beta}{\gamma} - \frac{1}{H_i} \frac{dH_i}{df} + \frac{0.9853 M' \beta}{h_i'^2 - 0.9853 M' \gamma} \right]$$

compared with the results obtained by A. Yakovkin (Ref. 10: "Postoyannyye fizich. libratsii lunnykh i z nabl. T. Banachiewicz v 1910-1915 g". Constant Physical Lunar Librations, Conclusions from the Observations of T. Banachiewicz 1910-1915, published by the Obs. Astr. Engel'khada, no. 13, Kazan', 1928, 89). The author remarks that H. Jeffreys (Ref. 12: "The Moon's Principal Librations in Rectangular Coordinates", Vistas in Astronomy, v. 1, London, 1955, 189-194), who gave the outline of the solution to the theory of libration in rectangular coordinates, probably missed Jönsson's more complete research on this subject published many years earlier. Finally,

Card 7/8

88838

P/010/60/008/002/002/002
D231/D301

The 20th century theory of ...

the author states his belief that the theory of lunar libration as given by Hayn-Kozielec satisfies all requirements; both as regards mathematical processing and observatory practice. The only problem still unresolved is the question: What are the values of constants which characterize this libration and in particular the value of the constant f ? It is hoped, however, that this problem will be resolved eventually by utilizing the Cracow Method which respects all the assumptions of the method of least squares. [Abstractor's note: Except for the values of symbols as they are indicated in the text of the abstract, the meanings of other symbols used in the article are not given]. There are 5 Soviet-bloc and 9 non-Soviet-bloc references: The reference to the English-language publication reads as follows: H. Jeffreys, "The Moon's Principal Librations in Rectangular Coordinates", *Vistas in Astronomy*, v. 1, London, 1955, 189-194.

Card 8/8

24259

P/026/60/008/004/008/009
A189/A126

3,1720

AUTHOR: Koziel, K.

TITLE: Cracow solar radio observations for January to March 1960
(7 meter paraboloid, frequency 810 Mc)
Solar radio noise

PERIODICAL: Acta Geophysica Polonica, v. 8, no. 4, 1960, 375 - 376

TEXT: Table p. 375 and Table p. 376 (English text)

Card 1/4

S/025/61/000/003/010/012
A166/A127

AUTHOR: Koziel, Karol, Professor (see Association)

TITLE: Three questions - twenty-four answers

PERIODICAL: Nauka i zhizn', no. 3, 1961, 31-32

TEXT: The author, who is Chairman of the Commission for the study of the Motion and Shape of the Moon of the International Astronomical Union, believes that the photos of the reverse side of the Moon will be of great assistance in future space flight by providing detailed maps of the Moon's surface, since the first landing must not be necessarily made on the visible side. Astronomers are currently engaged in intensive research in many respects on the Moon in preparation for the launching of the first man into space in the not too distant future. ✓

ASSOCIATION: Kraków University, Poland

Card 1/1