

J. A. MINDLIN: The boundary dynamic problem of the theory of elasticity for a circle with given displacements.

V. SOKOLOVSKIJ: The design of a spherical shell.

V. S. KOSLOV: Determination of the elements of percolation flow under dams with three cut-off walls resting upon a permeable foundation of finite depth.

V. D. KUPRADZE: Solution of the general problem of the diffraction of electromagnetic waves.

V. K. ARKADIEV: The dispersion band and the skin-effect in the sinusoidal field and in the transitional one.

A. PROKOFJEV: Torch ion counter.

P. LAZAREFF: Theoretical study of the influence of mountain ascents and that of winds on peripheral visual adaptation.

N. MIHAL: The determination of the figure of the geoid from the anomalies in the horizontal gradients of gravity.

I. A. SMORODINCEV and A. M. FELDT: Determination of the dissociation constant of thyreoglobulin.

M. A. KLOČKO: The 'lake age' of the Caspian Sea and its volume at the time it became a closed basin.

K. S. ANDRIANOV and A. I. SMIRNOV: The problem of the genesis of vivianite.

P. O. SITKO: Frequency of lethals in the X-chromosome due to the irradiation of spermatozoa in the males and in the spermathecae of the females of *Drosophila melanogaster*.

I. N. KONOVALOV and I. E. ROGALEV: The behaviour of nitrogenous substances during the vernalization of plants.

V. L. RYZKOV and A. M. VOVK: A new disease of the onion (*Allium Cepa*).

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V. STEPANOV: Arithmetical demonstration of a theorem of B. Segal.

A. V. JOFFE and A. F. JOFFE: (1) Electronic semiconductors in strong electric fields. (2) Properties of the blocking layer of solid rectifiers.

H. MANDEL and P. KUTEJNIKOV: The full electro-dynamics of material media.

N. S. KURNAKOV, A. V. NIKOLAEV and A. G. ČELIŠČEVA: (1) Heating curves of borates. (2) Specific gravity and hardness of natural borates and of the products of heating them. (3) Hydration heat and exothermic transformation of borate into inyoite. Some considerations on the transformation of borate.

V. V. ČELINCEV: Explanation of the disposition and inclination of rows of molecules in layers of organic acids according to röntgenograms.

B. P. NIKOLSKIJ and V. M. VDOVENKO: The potential difference between solid silver halogenides and aqueous solutions.

A. G. KOGAN and V. I. NIKOLAEV: Studies on the polytherme of the binary system $\text{HNO}_3\text{—HCl}$, and of the ternary system $\text{HNO}_3\text{—HCl—H}_2\text{O}$.

N. A. ORLOV and I. S. MUSTAFIN: Oxidation as a way to the formation of carbohydrates.

V. A. ŠPAK: A new method for differentiating rocks from borings by a counter recording gamma radiation impulses.

N. P. LUPPOV: The age of the "Upper Siderite clays" of the basin of the River Kuban (North Caucasus).

O. S. VIALOV: The mesozoides of Asia.

J. A. EFREMOV: Stratigraphic subdivision of the continental Permian and Jurassic of the U.S.S.R. on the basis of the fauna of early Tetrapoda.

V. I. CALKIN: The distribution of the common dolphin (*D. delphis* L.) in the Black Sea.

Forthcoming Events

[Meetings marked with an asterisk are open to the public.]

Monday, December 6

LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE, at 5.—Prof. F. W. Twort, F.R.S.: "A Comparative Study of Filter-passing Bacteria and Viruses" (succeeding lectures on December 8, 10, 13 and 15).*

ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Sir Charles Sherrington, F.R.S.: "Jean Fernel" (Thomas Vicary Lecture (1)).

ROYAL GEOGRAPHICAL SOCIETY, at 5.—Rev. W. L. S. Fleming, A. Stephenson and G. G. L. Bertram: "Scientific Work of the British Graham Land Expedition".

Tuesday, December 7

CHADWICK PUBLIC LECTURE (at the London School of Hygiene, Gower Street, W.C.1), at 5.15.—Dr. William Butler: "The Thames Estuary and the Problem of Sewage Disposal of Greater London".*

INSTITUTION OF CIVIL ENGINEERS, at 6.—Colonel W. Garforth: "Air Raids as they Affect the Work of the Civil Engineer".

QUEKETT MICROSCOPICAL CLUB (at 11 Chandos Street, Cavendish Square, W.1), at 7.30.—Prof. L. C. Martin: "The Present Limits of Microscopy".

Wednesday, December 8

INSTITUTION OF CIVIL ENGINEERS, at 6.15.—Dr. Brysson Cunningham: "Estuary Channels and Embankments" (Vernon-Harcourt Lecture).

Thursday, December 9

THE ROYAL SOCIETY, at 4.30 p.m.—Dr. R. W. Gurney and Prof. N. F. Mott, F.R.S.: "The Theory of Photolysis of Silver Bromide and the Photographic Patent Image".

Dr. A. L. Reimann: "The Temperature Variation of the Work Function of Clean and of Thoriated Tungsten".

ROYAL ASIATIC SOCIETY, at 4.30.—Prof. Doi: "Japanese Myth and Tradition".

Friday, December 10

ROYAL INSTITUTION, at 9.—Sir George Simpson, F.R.S.: "Ice Ages".

BRITISH INSTITUTE OF RADIOLOGY, December 8–10.—Annual Congress to be held in the Central Hall, London, S.W.1.

Appointments Vacant

APPLICATIONS are invited for the following appointments, on or before the dates mentioned:

LECTURER IN MATHEMATICS in the City of Leeds Training College—The Director of Education, Education Office, Leeds 1 (December 8).

PRINCIPAL of the Openshaw Municipal Technical School—The Director of Education, Education Office, Deansgate, Manchester (December 11).

LECTURER IN ANATOMY in the University of Birmingham—The Secretary (December 11).

PATHOLOGIST AND BACTERIOLOGIST in the Memorial Ophthalmic Laboratory, Cairo—Mr. H. H. Rew, The Examination Hall, Queen Square, W.C.1 (December 18).

ASSISTANT in the Observatory at the Cape of Good Hope—The Secretary of the Admiralty (C.E. Branch), Whitehall, S.W.1 (Ref. C.E. 7106/37) (December 21).

GLASS TECHNOLOGIST to the Government of the United Provinces—The High Commissioner for India, General Department, India House, Aldwych, W.C.2 (December 31).

METEOROLOGISTS (Grade III) in the Meteorological Office—The Secretary (S.2.A.), Air Ministry, Adastral House, Kingsway, W.C.2 (December 31).

INSPECTOR OF METALLIFEROUS MINES AND QUARRIES in North Wales—The Establishment Branch, Mines Department, Dean Stanley Street, Millbank, S.W.1 (January 1).