

I. M. GOLDMAN: Breakdown of compressed nitrogen in small gaps.

E. GROSS: The splitting-up of the Rayleigh line and the acoustic spectrum of crystals.

P. PETRENKO-KIRITSCHENKO: The law of periodicity.

M. V. GORLENKO: Resistance of winter wheats to black bacteriosis (*Bacterium translucens* var. *undulosum* S.J.R.).

A. A. ISAKOVA and A. A. ANDREJEV: The excretion of nitrogenous compounds by the roots of leguminous plants (lupin) and the conversion of these compounds in the presence of bacteria.

M. ABAKUMOVA: Problem of photo-periodical and temperature after-effects.

V. G. ALEKSANDROV and O. G. ALEKSANDROVA: The flintiness and flouriness of wheat endosperm.

N. G. CHLOPIN: Attempt at an experimental analysis of the auxiliary components of the nervous system.

J. A. VINNIKOV: Growth and transformation *in vitro* of myoneural elements (sphincter and dilator of the iris).

V. P. MICHAÏLOV: Growth and transformation *in vitro* of the covering cells of the vascular plexuses of the brain.

N. N. KANNEGISSE: Growth and transformation *in vitro* of the elements of the pia mater.

G. A. SCHMIDT: Ectoderm of the Anuran gastrula under the inductive influence of dead organizers and parts of organs of Amphibia and mammals.

Tokyo

Imperial Academy (*Proc.*, 14, No. 2, 27-85, Feb. 1938).

S. KAKUTANI: The uniqueness of Haar's measure.

SHIN-ICHI IZUMI and TATSUO KAWATA: Notes on Fourier series. (3) Absolute summability.

HITOSHI HOMBURU: The projective theory of 'paths' of the third order

$$x^{(3)} + H^i(x, x^{(1)}, x^{(2)}) = 0.$$

KENZO JOH: A theorem of K. Löwner on univalent functions.

MASAO SUGAWARA: Siegel's modular function of the higher degree.

HANTARO NAGAOKA and TADAO MISHIMA: High terms of Paschen series in hydrogen and deuterium.

KEN SUGAWARA: Decompositions in shallower waters of a lake in summer and the supply of oxygen from the atmosphere.

MASAO KUBOKAWA: Activated adsorption of methane on reduced nickel.

SHIGEHICO SUGASAWA, KŪCHIRO KAKEMI and TŌRU TSUDA: Synthesis of 6,7-dimethoxyquinoline.

HIDEKICHI YANAGISAWA and EŪCHI YOKOI: Purification of hirudin, an active principle of *Hirudo medicinalis*.

TEŪCHI KOBAYASHI and HISASHI MOCHIZUKI: Outline of the structure of the Kibi plateau on the inner side of western Japan.

SABURŌ ŌISHI: The Japanese equivalents of the *Lepidopteris* and *Thaumatopteris* zones of East Greenland.

GIHEI YAKAMA: (1) Hydrogen ion concentration, etc., of the anther sap of *Lilium* species. (2) Potential measurements of the dividing pollen mother cells of *Lilium speciosum*.

Forthcoming Events

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

Monday, May 16

KING'S COLLEGE, LONDON, W.C.2, at 5.30.—Prof. Th. J. Stomps: "Recent Developments of the Mutation Theory".*

Wednesday, May 18

ROYAL SOCIETY OF ARTS, at 8.30.—Prof. K. W. Braid: "Bracken and its Present Menace to Heather and Pasture".

Thursday, May 19

ROYAL SOCIETY, at 2.30.—Discussion on Turbulence in Fluid Motions, to be opened by Prof. G. I. Taylor, F.R.S.

LONDON MATHEMATICAL SOCIETY (at the Royal Astronomical Society, Burlington House, W.1), at 5.—Prof. W. V. D. Hodge: "Harmonic Integrals".

BRITISH INSTITUTE OF RADIOLOGY, at 6.30.—Annual General Meeting.

SIR JOHN CASS TECHNICAL INSTITUTE, ALDGATE, LONDON, E.C., at 7.—A. J. Murphy: "The Selection of Non-Ferrous Materials for Engineering Purposes" (succeeding lectures on May 26 and June 2).*

CHEMICAL SOCIETY, at 8.—Discussion on "Organic Intermolecular Complexes". Opened by Prof. G. M. Bennett.

Appointments Vacant

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

ASSISTANT ENGINEER and CIVIL ENGINEERING ASSISTANTS in the Roads Department of the Ministry of Transport—Assistant Secretary, Establishment Department, Ministry of Transport, Metropole Buildings, Northumberland Avenue, W.C.2 (May 16).

LECTURER IN MATHEMATICS (woman) in Darlington Training College—Principal (May 18).

SENIOR SCIENTIFIC OFFICER in the Directorate of Civil Research and Production, Air Ministry—Permanent Under-Secretary of State, Air Ministry (S.2.d.), Adastral House, Kingsway, W.C.2 (May 20).

SCIENTIFIC OFFICER, JUNIOR SCIENTIFIC OFFICER, TECHNICAL OFFICERS and ASSISTANTS (II) for work on wireless apparatus, etc., at the Signals Experimental Establishment, Woolwich, S.E. 18—Superintendent (May 20).

LECTURER IN PHYSIOLOGY in the University of Queensland—The Secretary, Universities Bureau of the British Empire, 88A, Gower Street, London, W.C.1 (May 20).

ASSISTANT LECTURER IN CHEMICAL PATHOLOGY in the University of Manchester—Registrar (May 21).

SENIOR SCIENTIFIC OFFICER in the Admiralty scientific pool (physics, particularly acoustics)—Secretary to the Admiralty (C.E. Branch) quoting Ref. No. C.E. 3326/38 (May 21).

LECTURERS IN MATHEMATICS, PHYSICS, CHEMISTRY, and CIVIL and MECHANICAL ENGINEERING DEPARTMENT of Woolwich Polytechnic, S.E. 18—Secretary (send stamped addressed envelope) (May 21).

TWO ASSISTANTS (one with knowledge of aeronautics) in the CIVIL and MECHANICAL ENGINEERING DEPARTMENT, a LECTURER in CHEMISTRY and a LECTURER in MATHEMATICS in the Northampton Polytechnic, St. John Street, London, E.C.1—Secretary (May 23).

LECTURER IN ZOOLOGY in King's College, Newcastle-upon-Tyne—The Acting Secretary to the Council (May 25).

PATHOLOGIST and BACTERIOLOGIST at the Memorial Ophthalmic Laboratory, Cairo—Horace H. Rew, Examination Hall, Queen Square, London, W.C.1 (May 28).

HEAD OF THE DEPARTMENT OF PHYSICS at the Chelsea Polytechnic, London, S.W.3—Principal (May 28).

CHEMISTS in the War Department—Under-Secretary of State (C.5), War Office, S.W.1, quoting Apts./83 (May 28).

LECTURER IN MATHEMATICS and LECTURER IN CHEMISTRY in the Derby Technical College—Clerk to the Governors (May 28).

ASSISTANT METEOROLOGIST in the Meteorological Service of the Sudan Government—The Controller, Sudan Government, London Office, Wellington House, Buckingham Gate, London, S.W.1 (May 31).

BACTERIOLOGIST in the Veterinary Department in Kenya—Director of Recruitment (Colonial Service), 8 Buckingham Gate, London, S.W.1 (May 31).

DEMONSTRATOR IN THE DEPARTMENT OF ZOOLOGY at Bedford College for Women, Regent's Park, N.W.1—Secretary (May 31).

LECTURER IN THE SCHOOL OF AGRICULTURE near Khartoum—University Appointments Board or Controller, Sudan Government (London Office), Wellington House, Buckingham Gate, S.W.1, marking envelope "Lecturer" (May 31).