

Brussels

Royal Academy (*Bull. Classe Sci.*, 23, No. 10; 1937).

T. DE DONDER: Components of a chemical reaction.
E. DE WILDEMAN: Abortion of the ovaries in certain phanerogams.

J. L. VERHAEGE: Intensity relationships of some intercombination lines in the spectrum of mercury. Considerable discrepancies between the observed and calculated intensity ratios were found for the lines ($7^3S_1-6^3P_2$), ($7^3S_1-6^3P_1$) and ($7^3S_1-6^3P_0$).

L. DERWIDUÉ: Some birational hyperspatial transformations.

R. DEBEVER: Mayer fields in the calculus of variations of multiple integrals.

H. SCHOTS: Two interesting problems in the calculation of magic squares.

F. E. NISOLI: Reply to Mr. Cox's remarks concerning a note of May 4, 1937.

Moscow

Academy of Sciences (*C.R.*, 17, No. 5, 1937).

N. P. ERUGIN: Exponential substitution for an irregular system of linear differential equations.

I. GELFAND: (1) Theory of abstract functions. (2) Operators and abstract functions.

V. FABRIKANT: Probability of collisions of the second kind between atoms and free electrons.

I. N. ANTIPOV-KARATAJEV and I. D. SEDLECKIJ: Genesis of colloidal metals in alkaline soils. Gedroit-site, a new mineral.

B. A. RUBIN and O. T. LUTKOVA: Oxidizing-reducing activity of tissues, as a biological character in plants.

D. J. VAKULIN: Effect of low and varying temperatures on variability in *Perilla*.

A. A. DROBKOV: Influence of rare earths on plant growth.

M. MOISEJEVA: Application of the quantitative anatomical method to the division of the genus *Pinus* into smaller taxonomic units.

S. N. JAGUŽINSKIJ: Structure of species of protococcous algae, *Scenedesmus* Meyen.

Tokyo

Imperial Academy (*Proc.*, 13, No. 9; 1937).

OBITUARY notice of Prof. Toyokichi Takamatsu, known for his work in chemical industry in Japan.

MASAO SUGAWARA: The transformation theory of Siegel's modular group of the n th degree.

YUKIYOSI KAWADA: Remarks on M. Moriya's construction of the classes of group theories of algebraic functions.

TAKESHI INAGAKI: The classes of constituents of complementary analytical groups.

TOKUI SATÔ: The differential equation $y'' = f(x, y, y')$.

MASAO INOUE: A consideration of the problem of Dirichlet.

TOKIO TAKEUCHI and TAKANOSUKE SUGITA: A method of producing a photographic image of a dark hot body in darkness. The method adopted involves the quenching of phosphorescence by infra-red light.

SHINKICHI YASHIMURA: Limnology of two lakes on the oceanic island, Kita-Daitô-zima.

MASUZÔ UENO: Plankton of the lakes in Kita-Daitô-zima.

TOKIO SHIKAMA: Ossiferous fissure deposits of Kuzui Prefecture.

KIYOSHI TAKEWAKI: (1) Fate of the zona reticularis in the adrenal cortex of castrated male mice. In certain circumstances, the zona reticularis remains for a year and a half (sometimes longer) after castration; but various types of degenerative phenomena occur in the zone of males which have long been castrated. (2) Postponement of appearance of oestrus following interruption of pregnancy in lactating mice. Lactation inhibits for some time the advent of oestrus following the removal of the uterus containing fetuses.

TAKEO KAMADA and HARUO KINOSITA: Graded response of the muscle of the Japanese giant crab to indirect stimulation.

YOSITIRO UMEYA: Preliminary note on experiments of ooplasm transfusion of silkworm eggs, with special reference to the embryo. Whether or not the development of the embryo in the wintering egg will begin depends upon the solubility of the yolk, and the phenomenon of egg-wintering is shown to be based primarily on the ooplasm and not on the embryo.

Forthcoming Events

Monday, February 14

ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Sir Arthur Keith, F.R.S.: "The Prehistoric People of Mount Carmel".

ROYAL GEOGRAPHICAL SOCIETY, at 5.—J. Hanson-Lowe: "The Structure of the Lower Yangtze Terraces".

Wednesday, February 16

ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Dr. W. E. Gye: "Some Recent Work on Experimental Cancer Research".

Thursday, February 17

CHEMICAL SOCIETY, at 8.—Prof. A. Findlay: Franklin Memorial Lecture.

Friday, February 18

INSTITUTION OF CHEMICAL ENGINEERS (at the Hotel Victoria, Northumberland Avenue, London, W.C.2).—Annual Corporate Meeting.

Dr. William Cullen: "A Milestone" (Presidential Address).

ROYAL INSTITUTION, at 9.—Prof. E. N. da C. Andrade, F.R.S.: "Science in the Seventeenth Century".

Appointments Vacant

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

ASSISTANT (grade III) IN THE BALLISTICS DIRECTORATE and a JUNIOR SCIENTIFIC OFFICER IN THE RADIOLOGICAL DIRECTORATE of the Research Department, Woolwich, S.E.18.—The Chief Superintendent (February 14).

LECTURER IN MECHANICAL ENGINEERING in the Leeds College of Technology.—The Director of Education, Education Department, Calverley Street, Leeds 1 (February 16).

JUNIOR SCIENTIFIC OFFICER at the Air Defence Experimental Establishment, Biggin Hill, Kent.—The Superintendent (February 18).

ASSISTANTS (grades II and III—refs. 6070 and 6270) at the Royal Aircraft Establishment, South Farnborough, Hants.—The Chief Superintendent (February 19).

LECTURER (woman) IN GEOGRAPHY in the Goldsmiths' College, New Cross, S.E. 14.—The Warden (February 28).

ASSISTANT GOVERNMENT ANALYSTS in the Straits Settlements.—The Director of Recruitment (Colonial Service), 8 Buckingham Gate, London, S.W.1 (March 21).

TWO DEMONSTRATORS IN PHYSIOLOGY in the University of Liverpool.—The Registrar (April 1).