

led to positive results. ELINOR S. HUNT: A summary of changes noted in the allantoic membrane of the chick in 500 experiments. The allantoic membrane of the embryo chick was prepared in the manner described by Moppett (*Proc. Roy. Soc. (B)*, 105, 402; 1929) and exposed for periods varying from 2 hours to 6 days to the radiation from a 3 mgm. radium needle. A comparison with controls exposed over a blank needle case clearly demonstrated a radiation effect for the longer exposures. It was thought that mere exposure had a sensitising effect since many of the controls showed abnormalities. An extended investigation with control specimens gave no evidence of infective changes but the incidence of abnormal specimens was greatly reduced by 'sheltering' the exposed area by placing face down on cotton-wool. (*To be continued.*)

VIENNA

Academy of Sciences, January 10. ERWIN KOSAK: The variability of corresponding differences of meteorological elements and its application to climatological problems. GERTRUD PERL: True solar radiation at different geographical latitudes. The results of measurements of the intensity of the sun's radiation at eighty stations distributed over the earth's surface are summarised, and from them the mean diurnal course of the intensity is derived for the months of March, June, September and December. KARL MAYRHOFER: Real partial fraction series. RUDOLF INZINGER: A geometry of the line elements of the first and second order of space. THEODOR PINTNER: The tissues of cestodes.

January 17. LEOPOLD SCHMID and HUGO KÖRPERTH: Amber (3). The insoluble succinin remaining after treatment of amber with alcohol constitutes the principal component of this resin. On dehydration it yields pimanthrene (1:7-dimethylphenanthrene) and agathaline (1:2:5-trimethylnaphthalene). MAX TOPERCZER: Knowledge of the earth's magnetic field derived from the results of the magnetic survey of Austria in 1930: (1) The potential-free part. RUDOLF ALLERS: Certain differences between monocular and binocular vision and mental influence on the organ of sight. MAX BEIER: The mode of life of *Ochthebius quadricollis* subsp. *steinbühleri*, Rtt. (Col. Hydroph.). ERWIN SCHADENDORFF and AUGUST VERDINO: Condensations of cholesteryl chloroformate with alcohols and phenols.

Forthcoming Events

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

Sunday, March 24

BRITISH MUSEUM (NATURAL HISTORY), at 3 and 4.30.—G. Tandy: "Plant Life of the Sea".*

Monday, March 25

BRITISH MUSEUM (NATURAL HISTORY), at 11.30.—G. V. Seccombe Hett: "Caribou".*

VICTORIA INSTITUTE, at 4.30.—D. Dewar: "A Critical Examination of the Supposed Fossil Links between Man and the Lower Animals".

ROYAL GEOGRAPHICAL SOCIETY, at 5.30.—G. M. Dyott: "Indians of Ecuador" (Geographical Film).

ROYAL SOCIETY OF ARTS, at 8.—J. Grantham: "Research in the Cultivation of Raw Rubber" (succeeding lectures on April 1 and 15).

Tuesday, March 26

ROYAL AERONAUTICAL SOCIETY, at 6.30.—Annual General Meeting.

ROYAL PHOTOGRAPHIC SOCIETY (SCIENTIFIC AND TECHNICAL GROUP), at 7.—Annual General Meeting.

Dr. D. A. Spencer: "The Accuracy Attainable by Straightforward Colour Reproduction. (2) Filters for Subtractive Colour Photography".

Wednesday, March 27

BRITISH PSYCHOLOGICAL SOCIETY (MEDICAL SECTION), at 8.30.—(at the Medical Society of London, 11 Chandos Street, Cavendish Square, W.1).—Dr. J. D. Unwin: "Sex Regulation and Culture".

Thursday, March 28

ROYAL SOCIETY, at 11-1 and 2.15-4.—Discussion on: "The Origin and Relationships of the British Flora", to be opened by Prof. A. C. Seward.

INSTITUTION OF CIVIL ENGINEERS, at 6.—Major M. Hotine: "Surveying from Air Photographs".

Friday, March 29

ROYAL INSTITUTION, at 9.—Lord Rutherford: "The Neutron and Radioactive Transformations".

INSTITUTE OF PHYSICS, March 28-30.—Conference on Industrial Physics, entitled "Vacuum Devices in Research and Industry", to be held at the University of Manchester.

Prof. W. L. Bragg: President.*

THE FARADAY SOCIETY, March 29-30.—General discussion on "The Structure of Metallic Coatings, Films and Surfaces". Introductory paper by Dr. C. H. Desch.

Official Publications Received

GREAT BRITAIN AND IRELAND

Department of Scientific and Industrial Research. Index to the Literature of Food Investigation. Compiled by Agnes Elisabeth Glennie, assisted by Gwen Davies. Vol. 6, No. 1, March. Pp. v+309. (London: H.M. Stationery Office.) 5s. net.

The Physical Society. Reports on Progress in Physics. Pp. iv+371+2 plates. (London: Physical Society.) 12s. 6d. net to non-Fellows.

OTHER COUNTRIES

Journal of the Indian Institute of Science. Vol. 17A, Part 10: On the Nature and Extent of Periodic Fluctuations in certain Soil Constituents. By A. Sreenivasan and V. Subrahmanyam. Pp. 113-126. 1.2 rupees. Vol. 17A, Part 11: On the Characterisation of Different Amylases. By K. Venkata Giri. Pp. 127-129+2 plates. 8 annas. Vol. 17A, Part 12: Contributions to the Study of Spike-Disease of Sandal (*Santalum Album*, Linn.). Part 16: Distribution of Arsenic in Sandal-Wood treated with Sodium Arsenite. By A. V. Varadaraja Iyengar. Pp. 131-139. 14 annas. Vol. 17A, Part 13: The Estimation of Chlorine in Water by the *o*-Tolidine Method. By S. D. Sunawala and K. R. Krishnaswami. Pp. 141-151. 1 rupee. Vol. 17A, Part 14: Contributions to the Study of Spike-Disease of Sandal (*Santalum Album*, Linn.). Part 17: Hydrogen-Ion Concentration and Buffering Capacity as Factors of Disease Resistance. By M. Srinivasan and M. Sreenivasaya. Pp. 153-164. 1 rupee. Vol. 17A, Part 15: Estimation of Tannin in Plant Materials. Part 1: *Cassia auriculata*. By N. Srinivasan. Pp. 165-173. 14 annas. Vol. 17A, Part 16: Raman Effect in certain Derivatives of Cyclohexane. By G. V. Nevgi and S. K. Kulkarni Jatkar. Pp. 175-187. 1.2 rupees. Vol. 17A, Part 17: Raman Effect in some Terpenes. By G. V. Nevgi and S. K. Kulkarni Jatkar. Pp. 189-196. 12 annas. Vol. 17A, Part 18: Determination of Carbon in Soils. By V. Subrahmanyam, Y. V. Narayanaya and Miss K. Bhagvat. Pp. 197-215. 1.8 rupees. Vol. 17B, Part 6: The Potential of Dry Cells with Magnesium Chloride Electrolyte. By V. L. R. Vepa. Pp. 101-105. 10 annas. (Bangalore: Indian Institute of Science.)

CATALOGUES

Hilger Catalogue F: Spectroscopic and other Accessories. Pp. 54. (London: Adam Hilger, Ltd.)

Price List of Beakers and Flasks in Highly Resistant Glass. Pp. 12. Surplus Stock. (Pamphlet No. SS. 101K.) Pp. 12. (London: A. Gallenkamp and Co., Ltd.)

Absorptionmeter for Liquids designed by Moll, Burger and Reichert. (Aso. 34.) Pp. 4. Non-Recording Microphotometer. (Nomi. 34.) Pp. 2. (Delft: P. J. Kipp and Zonen.)