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radiation with α -particles of polonium to ascertain to what extent they emitted a hard nuclear γ-radiation under such treatment. Positive results were shown by B, N, Al, Na, Mg and especially Be. HERBERT HABERLANDT, BERTA KARLIK and KARL PRZIBRAM: Synthesis of the green, low-temperature fluorescence of fluorite. Ytterbium is found to be the source of this fluorescence. HERMANN WENDELIN: Abel's groups. ALEXANDER KÖHLER and WILHELM FREH: Geological-petrographic studies on the igneous rocks of the Lower Austrian forest region and its neighbourhood (3). Results are given of analyses of granite from Schrem, quartz-mica-diorite from Gebhart, and kersantite from the Loja valley above F. GRÜTER, A. STÄHELI and E. Steinbruch. STEINACH: Removal of sterility from animals (oxen, cows, pigs) by the female sexual hormone. A single administration of this hormone suffices to render sterile animals capable of breeding. Alfred Müller: Baire's theorem. RUDOLF WAGNER: Prefloration polymorphism and polygamia in Reineckea carnea (Ardr.) Kth.

Jan. 18. Herbert Haberlandt: Fluorescence analysis of minerals. The presence of rare earths in certain scheelites and zircons, and that of uranium in certain scapolites is detectable by means of the fluorescence spectrum. Robert Schwinner: Geology of Eastern Styria (i); structure of the mountains about Vorau. Hans Przibram: (1) Skeletal transitions in regenerating Sphodromantis-antennæ. (2) Skeletal transitions in regenerating cricket-antennæ. Heinz TRAMPUSCH: Influence of endocrine glands on the regenerate in vertebrates.

Jan. 25. FRIEDRICH KÜMEL: Crystalline facies in the Rosalien mountains: eclogite and amphi-bolite. Karl Przibram: Plasticity and hardness of alkali halide crystals (2). The author's results are compared with those obtained by other methods by Reis and Zimmermann, and by Goldschmidt. ELISABETH KARA-MICHAILOVA: Luminous intensity of the air caused by a-particles of various ranges. The variation of intensity with the range of the α-particles follows a course similar to that of the ionisation curve. Otto Wettstein: Results of the Austrian biological expedition to Costa Rica in 1930: Amphibia and reptiles. GUSTAV GÖTZINGER and HELMUT BECKER: New geological-stratigraphic investigations in the Wienerwald.

Forthcoming Events

[Meetings marked with an asterisk are open to the public.] Monday, May 14

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.-W. Rickmer Rickmers: "Ajaristan and Lazistan".

Tuesday, May 15

Institute of Physics, at 4.15.—(at the Royal Institution, Albemarle Street, W.1).—Annual General Meeting.
Sir Henry Lyons: "Physics and Science Museums".
(Presidential Address.)

Bedford College for Women, at 5.15.—Dr. Werner Brock: "Introduction into Contemporary German Philosophy" (succeeding lectures on May 16 and 18)*.

GRESHAM LECTURES IN ASTRONOMY, at 6.—(at Gresham College, Basinghall Street, E.C.2). Arthur R. Hinks: "Times, Dates and Calendars" (succeeding lectures on May 16, 17 and 18).*

Wednesday, May 16

ROYAL METEOROLOGICAL SOCIETY, at 5.-Dr. G. C. "World Climate during the Quaternary Simpson: Period".

FARADAY SOCIETY, at 5.30.—(at the Royal Institution, Albemarle Street, W.1).—Sir William Bragg: "Molecule Planning" (Spiers' Memorial Lecture).

ROYAL SOCIETY OF ARTS, at 8.30.—Dr. C. E. Kenneth Mees: "Some Photographic Aspects of Sound Recording" (Sir Henry Trueman Wood Lecture).

Thursday, May 17

LONDON MATHEMATICAL SOCIETY, at 5.—(in the rooms of the Royal Astronomical Society, Burlington House, W.1).—Prof. E. A. Milne: "World-Gravitation by Kinematic Methods".

Friday, May 18

Bedson Club, Armstrong College, Newcastle-upon-Tyne, at 6.30.—Prof. G. G. Henderson: "Gutta Percha, Balata and Caoutchouc" (Twenty-sixth Bedson Lecture).

ROYAL INSTITUTE OF PUBLIC HEALTH, May 15-20 .-Annual Congress to be held at Norwich. Alderman H. N. Holmes, president.

Association of Teachers in Technical Institutions, May 19-22.—Twenty-fifth conference to be held at Middlesborough.

Official Publications Received

GREAT BRITAIN AND IRELAND

Imperial Bureau of Animal Genetics. A Bibliography of the Works of James Cossar Ewart. Compiled by Dr. J. H. Ashworth and Dr. F. Fraser Darling. (Supplement to "Animal Breeding Extracts", Vol. 1.) Pp. xi. (Edinburgh and London: Oliver and Boyd.) 6d. net. Report by the Hydrographer of the Navy on the Surveys carried out by H.M. Naval Surveying Service, and on the Work of the Hydrographic Department for the Year 1933. Pp. vi. (London: Admiralty.)

Memoirs of the Cotton Pacacach Statists. Which is the Cotton Pacacach Statists.

Admiralty.)

Memoirs of the Cotton Research Station, Trinidad. Series A, Genetics, No. 6: (a) Further Experiments on the Inheritance of the Crinkled Dwarf Mutant of G. barbadense, by S. C. Harland; (b) Two Interspecific Hybrids between Asiatic and New World Cottons, by A. Skovsted. Pp. 30. 2s. 6d. Series A, Genetics, No. 7: The Inheritance of Leaf Shape in Asiatic Gosspyiums. By J. B. Hutchinson. Pp. 78. 2s. 6d. (London: Empire Cotton Growing Corporation.)

OTHER COUNTRIES

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The Journal Hyderabad Geological Survey. Vol. 2, Part 2, Water-Supply Paper No. 1: Geology of the Underground Water Resources of the Hyderabad State, and Notes on Well Sinking. By Capt. Leonard Munn. Pp. vil+204+16 plates. (Lingsugar: Hyderabad Geological Survey.) 5 rupees.

Proceedings of the Sugar Cane Investigation Committee. Vol. 4, Part 4: Progress Reports for July to December 1933. Pp. 201-254. (Trinidad: Imperial College of Tropical Agriculture.)

Commonwealth of Australia: Council for Scientific and Industrial Research. Bulletin No. 77: Studies on the Phosphorus Requirements of Sheep, 1: The Effect on Young Merino Sheep of a Diet deficient in Phosphorus, but containing Digestible Proteins and Vitamins. By Sir Charles J. Martin and A. W. Peirce. Pp. 44+2 plates. Bulletin No. 78: Methods for the Identification of the Light-coloured Woods of the Genus Eucalyptus. By H. E. Dadswell, Maisie Burnell and Audrey M. Eckersley. (Division of Forest Products, Technical Paper No. 12.) Pp. 60+41 plates. (Melbourne: Government Printer.)

The Wistar Institute Style Brief: a Guide for Authors in preparing Manuscripts and Drawings for the most Effective and Economical Method of publishing Biological Research. Pp. 169 (37 plates). (Philadelphia: Wistar Institute.) 2 dollars.

Jahresbericht der Hamburger Sternwarte in Bergedorf ür das Jahs 1933. Pp. 21+4 plates. Zweites Bergedorfer Sternverzeichnir 1930-0 enthaltend die mittleren Örter von 4599 Sternen (Eros-Anhaltsternen 2. Ordnung für die Opposition 1930-31) nach photographischen Aufnahmen mit dem AG-Astrographen in den Jahren 1930 und 1931. Herausgegeben von Dr. Richard Storr. Pp. vi +78+1 plate. Sammlung von Hilfstafeln der Hamburger Sternwarte in Bergedorf. Z: Formein zur geographischen Ortsbestimmung (zum Gebrauch beim Astronomischen Praktikum an der Hamburgischen Universität). Pp. ii +14. H. Formein und Hilfstafeln zur Reduktion Photographischer Himmelsaufnahmen, Teil 2. Pp. iii +64. (Bergedorf: Hamburger Sternwarte.)

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