

will germinate well a year later. Temperatures during the resting period may play an important part in regulating capacity of the seed for germination.—E. Reuning: The Pomona quartzite and oyster horizon on the west coast of South Africa north of the Oliphants River mouth. Ancient phyllites are planed off and covered by a series of deposits which consist of a fossiliferous grit with shark's teeth at the base, followed by a strongly silicified sand and grit passing up into calcified and partly silicified clays. Lying unconformably upon these sands and clays—the equivalent of the Pomona quartzite—are marine deposits, divided into the Main Oyster-horizon below and the *Donax rogersi* beds above. Above these is a terrestrial cover of sand, which has been formed in a discontinuous cycle.—T. Levitt: A report on the Cape Flats femur. A detailed study of the thigh-bone found in a sand quarry on the Cape Flats, in the same circumstances as a skull which has proved to be decidedly primitive. The femur shows primitive human and even simian characters, and belonged to an individual appreciably different from any of the existing human types in Africa and definitely low in the human scale. This finding corresponds to that arrived at independently for the skull.

CRACOW.

Polish Academy of Science and Letters, Oct. 6.—Georges Bouligand: Some applications of the theory of ensembles to infinitesimal geometry.—Ladislas Natanson: Certain theorems associated with Fermat's principle.—W. Swietoslawski: A differential boiling point apparatus furnished with a fractionating column and its application. This apparatus is specially applicable to the study of the purity of liquids, either pure substances or azeotropic and eutectic mixtures, and has been designed to handle small quantities of liquids. The determination of the amount of water present in an acetone-carbon disulphide azeotropic mixture is given as an example.—J. Kozak and L. Musial: The action of hydantoin on o-nitrobenzaldehyde.—J. Nowak: Remarks on the age of the magmatic rocks of the uncovered layers of Cieszyn.—J. Zerndt: Megaspores arising from a layer situated at a depth of a hundred metres at Libiqz (Stephanian).—Z. Grodzinski: The development of the blood vessels in the fore foot of the tortoise (*Emys orbicularis*).

Official Publications Received.

BRITISH.

Records of the Geological Survey of India. Vol. 64: Quinquennial Review of the Mineral Production of India for the Years 1924 to 1928. By the Director and Senior Officers of the Geological Survey of India. Pp. viii+446+xvii+6 plates. (Calcutta: Government of India Central Publication Branch.) 9.6 rupees; 15s. 6d.  
Records of the Indian Museum. Vol. 31, Appendix: List of Literature referring to Indian Zoology (excluding Insecta) received in Calcutta during the Year 1929. Pp. xx. 5 annas; 6d. Vol. 32, Part 2. Pp. 65-214+plates 2-7. 2.12 rupees; 5s. Vol. 32, Part 3. Pp. 215-356+plate 8. 2.12 rupees; 5s. (Calcutta: Government of India Central Publication Branch.)  
Memoirs of the Indian Museum. Vol. 9, No. 5: Revision of the Asiatic Species of the Genus *Corbicula*. 4: The Species of the Genus *Corbicula* from the Sunda Islands, the Celebes and New Guinea. By Dr. B. Prasad. Pp. 193-203+plates 24-26. 1.6 rupees; 2s. 3d. Vol. 11, No. 1: Studies on Indian Jassidae (Homoptera). Part 1: Introductory and Description of some New Genera and Species. By Hem Singh Pruthi. Pp. 63+5 plates. 5.8 rupees; 9s. (Calcutta: Government of India Central Publication Branch.)  
The Quarterly Journal of the Geological, Mining and Metallurgical Society of India. Vol. 2, No. 4, November. Pp. 133-179+9 plates. (Calcutta.) 6 rupees.  
Education, India. Education in India in 1927-28. Pp. iv+72. (Calcutta: Government of India Central Publication Branch.) 1.12 rupees; 3s.  
Malta. Annual Report on the Working of the Museum Department during 1929-1930. Pp. xviii. (Malta: Government Printing Office.)  
The Journal of the Institution of Electrical Engineers. Edited by P. F. Rowell. Vol. 69, No. 408, December. Pp. 120+xxxii. (London: E. and F. N. Spon, Ltd.) 10s. 6d.

Proceedings of the Canadian Phytopathological Society. Inaugural Session, December 19 and 20, 1929. Pp. 61. (Ottawa.)  
Department of Scientific and Industrial Research. Report of the Fuel Research Board for the Year ended 31st March 1930; with Report of the Director of Fuel Research. Pp. viii+121+3 plates. (London: H.M. Stationery Office.) 2s. net.  
Proceedings of the Geologists' Association. Edited by A. K. Wells. Vol. 41, Part 4, 21st December. Pp. 363-445. (London: Edward Stanford, Ltd.) 5s.  
Journal of the Society for the Preservation of the Fauna of the Empire. New Series, Part 12. Pp. 66. (London.) 1s. 6d.  
Ninth Scientific Report on the Investigations of the Imperial Cancer Research Fund, under the direction of the Royal College of Physicians of London and of the Royal College of Surgeons of England. Pp. viii+156+39 plates. (London: Taylor and Francis.) 20s.  
Leeds University. Report to the Worshipful Company of Cloth-workers of the City of London of the Advisory Committee on the Departments of Textile Industries and Colour Chemistry and Dyeing, during the Session 1929-30. Pp. 13. (Leeds.)  
Department of Scientific and Industrial Research. Building Science Abstracts. Vol. 3 (New Series), No. 11, November. Abstracts Nos. 2039-2182. Pp. 379-409. (London: H.M. Stationery Office.) 9d. net.

FOREIGN.

Journal of the Faculty of Agriculture, Hokkaido Imperial University, Sapporo, Japan. Vol. 27, Part 2: Das Ausflocken animalischer Eiweissstoffe, von Georg Grasser: Über gerbende Stoffe und ihre Beurteilung, Untersuchungen über die tierische Haut, Untersuchungen über Gelatine und Haut, Beeinflussung der Metallsalz-Gelatine-Fällung durch Zusatz von Neutralsalzen, Refraktometrische Untersuchung des Chromosaren-Reduktion, von Georg Grasser und Hiroshi Ohoki; Gerbereichemische Untersuchung von Chromosalzen, Kombinationswirkung zweier Gerbstoffe gegenüber Gelatine und tierische Haut, ein Beitrag zur chemischen Erforschung der Kombinationsgerbung, von Georg Grasser und Masatake Ichise. Pp. 227-348. Vol. 27, Part 3: Studies on the Ripening of Rice-Grains. By I. Tadokoro and M. Abe. Pp. 349-387. Vol. 29, Part 2: Die Apoderinen aus dem japanischen Reich. Von H. Kono. Pp. 37-83+Tafeln 5-6. (Tokyo: Maruzen Co., Ltd.)  
Ministerio da Agricultura, Industria e Commercio: Observatorio Nacional do Rio de Janeiro. Boletim Sismologico do Observatorio Nacional, 1926 a 1929. Pp. 74. (Rio de Janeiro.)  
Annalen van de Sterrewacht te Leiden. Deel 15, Derde Stuk: Catalogue of 1172 Reference Stars in the Areas 2-115 of the Systematic Plan of Selected Areas. Observations of the Leiden Observatory. By C. H. Hins and J. J. Raimond, Jr. Pp. 41. (Haarlem: Joh. Enschedé en Zonen.)  
Methods and Problems of Medical Education (Eighteenth Series). Pp. iv+329. (New York City: The Rockefeller Foundation.)  
U.S. Department of Agriculture: Weather Bureau. Instructions to Marine Meteorological Observers. Fifth edition. (W.B. No. 991.) Pp. viii+80+8 plates. (Washington, D.C.: Government Printing Office.) 25 cents.  
Japanese Journal of Geology and Geography: Transactions and Abstracts. Vol. 8, Nos. 1 and 2, September. Pp. iii+112+11. (Tokyo: National Research Council of Japan.)  
University of California Publications in Zoology. Vol. 35: Vertebrate Natural History of a Section of Northern California through the Lassen Peak Region. (Contribution from the Museum of Vertebrate Zoology of the University of California.) By Joseph Grinnell, Joseph Dixon and Joan M. Linsdale. Pp. v+594. (Berkeley, Calif.: University of California Press.)  
Transactions of the San Diego Society of Natural History. Vol. 6, No. 14: Four New Birds from Northwestern Mexico. By A. J. van Rossem. Pp. 213-226. Vol. 6, No. 15: A new Least Bittern from Sonora. By A. J. van Rossem. Pp. 227-228. (San Diego, Calif.)  
United States Department of Agriculture. Technical Bulletin No. 214: The Physical and Chemical Characteristics of certain American Peat Profiles. By Irvin C. Feustel and Horace G. Byers. Pp. 27. (Washington, D.C.: Government Printing Office.) 5 cents.

CATALOGUES.

Radiostolenm. Pp. 14. (London: The British Drug Houses, Ltd.)  
Lantern Slides, illustrating Zoology, Botany, Geology, Astronomy, &c. (Catalogue B.) Fifth edition. Pp. 104. (Manchester: Platters and Garnett, Ltd.)  
Catalogue of Fine Chemical Products for Laboratory Use: including Organic and Inorganic Chemicals, Analytical Reagents, Standard Stains, Indicators. (January 1931.) Pp. 130. (London: The British Drug Houses, Ltd.)

Diary of Societies.

FRIDAY, JANUARY 16.

ROYAL SOCIETY OF MEDICINE (Balneology and Climatology Section) (Clinical Meeting at Red Cross Clinic for Rheumatism, Feto Place, N.W.1), at 5.  
PHYSICAL SOCIETY (at Imperial College of Science), at 5.—Dr. T. L. Ibbs and Dr. K. E. Grew: The Influence of Low Temperatures on the Thermal Diffusion Effect.—Dr. J. H. Vincent: Further Experiments on Magnetostriction Oscillators at Radio Frequencies.—S. Butterworth and F. D. Smith: The Equivalent Circuit of the Magnetostriction Oscillator.—Dr. L. C. Martin: The Theory of the Microscope.  
BRITISH INSTITUTE OF RADIOLOGY (at 32 Welbeck Street), at 5.—Medical Meeting.  
SOCIETY OF CHEMICAL INDUSTRY (Liverpool Section) (at University, Liverpool), at 6.—Prof. G. T. Morgan: Organic Syntheses facilitated by Pressure (Hurter Memorial Lecture).