

Rome

Royal National Academy of the Lincei
(*Atti*, 23, 161-249; 1936).

- L. TONELLI: A fundamental proposition of mathematical analysis.
- G. ARMELLINI: Eccentricity of binary systems in the case of masses which vary with time.
- G. GIORGI: Concerning electric and magnetic inductivities.
- E. BORTOLOTTI: Non-linear relations: geometry of a system of equations with partial derivatives of the second order (3). Other intrinsic differential operators. Descriptive properties of the system.
- G. SCORZA DRAGONI: Some theorems on Jordan's curves.
- A. TERRACINI: Space varieties of ∞^1 spaces.
- G. USIGLIO: New interpretation of propagation in the second medium in total reflection.
- G. BERGAMI, P. BAER and E. BOERI: Variation of the excretion of allantoin by rats in relation to ketogenic and anti-ketogenic diets.
- A. C. BLANC: Pleistocene beach with *Strombus bubonius* near Palidoro (Rome).
- A. DESIO: New geological bases for search of phosphates in Lybia.
- M. PITOTTI: Gastrulation of the egg of *Lampreda (Lampetra fluviatilis L.)*. Displacement of substances during gastrulation.
- M. LAPORTA and C. VACCA: Biological and chemical tests on the product of the irradiation of follicular hormone with ultra-violet rays.
- A. CARTENI and C. VACCA: Chemical composition and energy value of diets consumed in two marine colonies.
- C. GUARESCHI: Experiments with X-rays and with radium on the nymphosis of insects.
- E. FAGIOLO: Researches on the pronephros in amphibia (2).
- A. SPIRITO: New experiments on the influence of a continuous electric current on the meristems of roots.
- A. CESARIS-DEMEL: Memorial lecture on Ettore Marchiafava.

Vienna

Academy of Sciences, June 25.

- HEINZ TH. GRAZIADEI: Cosmic rays and solar activity. The correlation coefficient between cosmic ray intensity and activity of solar flocculi is -0.48 . There is a 27-day periodicity in the cosmic ray intensity.
- L. KAHOVEC and K. W. F. KOHLRAUSCH: Raman spectrum of hydrazine and its hydrate. A Raman frequency of 1620 cm.^{-1} occurs in hydrazine and its hydrate if the violet light be filtered out from the exciting light. This may be due to traces of diimide, HN:NH , which is decomposed by violet light.
- K. W. F. KOHLRAUSCH and ROMAN SKRABAL: Vibration spectrum of cyclobutane.
- W. FLEISCHMANN, H. GOLDHAMMER and S. KANN: Physiology of hibernation.
- HANS PRZIBRAM and LEONORE BRECHER: Inhibition of the red coloration of the fore-legs of *Dixippus*.
- ATMA MALABOTTI: Functional and histological behaviour of the stick insect (*Dixippus morosus* Br. and Redt.) after severing the nerves of the head.
- RUDOLF KANTSCHEIDER: Evaluation of the magnetic data of the Austrian expedition to Jan Mayen in the polar year 1932-33 (2). The diurnal variation of the magnetic elements.

Official Publications Received

Great Britain and Ireland

- The Scientific Proceedings of the Royal Dublin Society. Vol. 21 (N.S.), No. 38: The Standardisation of Photo-electric Cells for the Measurement of Energy. By H. H. Poole and W. R. G. Atkins. Pp. 363-379. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.) 1s. 6d. [318]
- Mines Department. Fourteenth Annual Report of the Safety in Mines Research Board, including a Report of Matters dealt with by the Health Advisory Committee, 1935. Pp. 144+10 plates. (London: H.M. Stationery Office.) 2s. net. [19]
- London Shellac Research Bureau. Technical Paper No. 10: Fundamental Physical Properties of Lac. Part 4: Optical Properties. By Dr. L. C. Verman. Pp. 16. (London: London Shellac Research Bureau.) [19]
- The National Institution of the Boot and Shoe Industry (Incorporated). Bibliographical Index: Boots and Shoes, Leather, Rubber and other Materials. Pp. xv+97. (London: National Institution of the Boot and Shoe Industry.) [19]
- County of Armagh Education Committee: Portadown and District Technical Schools. Time Table of Afternoon and Evening Classes, Session 1936-37. Pp. 24. (Portadown: Technical School.) [29]
- Institute for Research in Agricultural Engineering: University of Oxford. Refrigeration for the Farm and Dairy. By C. A. Cameron Brown. Pp. 51. (Oxford: University of Oxford.) 1s. 6d. [29]
- Air Ministry: Aeronautical Research Committee: Reports and Memoranda. No. 1688 (2202): Measurement of Profile Drag by the Pitot-Traverse Method. By the Cambridge University Aeronautics Laboratory. Pp. 46+14 plates. 3s. net. No. 1690 (2261): Stressing of Aeroplane Wings due to Symmetrical Gusts. By L. W. Bryant and I. M. W. Jones. Pp. 20+25 plates. 2s. net. No. 1692 (1940): Rolling Up of the Surface of Discontinuity Behind an Aerofoil of Finite Span. By F. L. Westwater. Pp. 16+18 plates. 2s. net. No. 1696 (1863): Heat Dissipation of Ethylene Glycol Radiators and Comparison with Water Radiators. By C. Anderton Brown and F. G. Barlow. Pp. 28+17 plates. 2s. net. (London: H.M. Stationery Office.) [29]

Other Countries

- Proceedings of the Academy of Natural Sciences of Philadelphia, Vol. 88. Resident Birds of the Bay Islands of Spanish Honduras. By James Bond. Pp. 353-364. (Philadelphia: Academy of Natural Sciences.) [288]
- Field Museum of Natural History. Zoological Series, Vol. 20, No. 13: Records and Measurements of Neotropical Bats. By Colin Campbell Sanborn. Pp. 93-106. 15 cents. Zoological Series, Vol. 20, No. 14: Descriptions and Records of African Bats. By Colin Campbell Sanborn. Pp. 107-114. 10 cents. Zoological Series, Vol. 22, No. 1: African Reptiles and Amphibians in Field Museum of Natural History. By Arthur Loveridge. (Publication 360.) Pp. 112. 75 cents. Anthropological Series, Vol. 24, No. 1: Egyptian Stelae in Field Museum of Natural History. By Thomas George Allen. (Publication 359.) Pp. 80+43 plates. 1.50 dollars. (Chicago: Field Museum of Natural History.) [288]
- Publications of the Astronomical Institute of the University of Amsterdam. No. 5: The Stark Effect of Hydrogen in Stellar Spectra. By S. Verweij. Pp. 48. (Amsterdam: J. F. Duwaer and Zonen.) [288]
- University of California Publications in American Archaeology and Ethnology. Vol. 34, No. 4: Northeastern and Western Yavapai. By E. W. Gifford. Pp. v+247-346+plates 8-14. (Berkeley, Calif.: University of California Press.) [318]
- Annual Report of the Public Health Commissioner with the Government of India for 1934. Vol. 2. Pp. v+117. (Delhi: Manager of Publications.) 10 annas; 1s. [318]
- The Indian Association for the Cultivation of Science. Annual Report for the Year 1935. Pp. 44. (Calcutta: Indian Association for the Cultivation of Science.) [318]
- Indian Forest Records (New Series). Vol. 2, No. 3: A Stand Table for Chir (*Pinus longifolia*, Roxb.), Evenaged High Forest. Pp. iii+59-74. 12 annas; 1s. 3d. Vol. 2, No. 6: Zwei neue Callirrhinipis mit ihren Larven (Sandalidae, Col.). Von Fritze van Emden. Pp. ii+151-156. 4 annas; 5d. (Delhi: Manager of Publications.) [318]
- Summary Proceedings of the Thirty-second Meeting of the Indian Central Cotton Committee, Bombay, held on the 13th and 14th January 1936. Pp. 105. (Bombay: Indian Central Cotton Committee.) [318]
- Memoirs of the Geological Survey of India. Vol. 66, Part 2: Geology of the Northern Slopes of the Satpuras between the Morand, and the Sher Rivers. By H. Crookshank. Pp. viii+173-381+xx+plates 15-25. (Calcutta: Geological Survey of India.) 6.6 rupees; 10s. [318]
- Fiskeridirektoratets Skrifter, Serie Havundersøkelser. Report on Norwegian Fishery and Marine Investigations, Vol. 5, No. 2: A Study on the Life History and Migrations of the Norwegian Spring-Herring based on the Analysis of the Winter Rings and Summer Zones of the Scale. By Sven Runnström. Pp. 104+3 plates. (Bergen: A.S. John Griegs Boktrykkeri.) [19]

Catalogues

- Old Science and Medicine, comprising Astronomy, First editions of Tycho Brahe, Copernicus, Doppler, Galilei, Halley, Hevelius, Huygens, Kepler, Laplace, Sirturius, a Fine Collection of First Editions of Robert Boyle, Important Books in the History of Botany, Chemistry, Physics, Medicine, Anatomy, Embryology and Biology, Photography. (Catalogue 40.) Pp. 64+6 plates. (London: E. P. Goldschmidt and Co., Ltd.)
- Marconi—E.M.I. Television. Pamphlet No. M.E.M.I. 1: The System of To-day and To-morrow. Pp. 21. (London: Marconi—E.M.I. Television Co., Ltd.)