other amphibians, the melanophores expand at very low temperatures and contract at moderately high ones; unlike those of other amphibians, they expand at relatively high temperatures .- Stanley G. Warner : Histological polarisation of lateral giant-fibres in the crayfish. Demonstrated by treating sections with Vom Rath fluid containing some 5 per cent acetic acid instead of the usual 1 per cent solution and afterwards with a 5 per cent solution of pyrogallic acid.-Tsai-Han Kiang: On the groups of orientable two-manifolds.—G. A. Miller: Inverse commutator subgroups.-Arthur E. Kennelly: The convention of equidimensional electric and magnetic units. A set of electromagnetic unit dimensions is derived, based on the hypothesis that the dimensions of permittivity κ_0 and permeability μ_0 for free space are the same. The dimensions obtained are in every case arithmetical means of the Maxwellian electrostatic and electromagnetic dimensions .--- Richard C. Tolman: On thermodynamic equilibrium in a static Einstein universe. A discussion of the thermodynamic equilibrium be-tween matter and radiation. It is concluded that the equilibrium concentration of matter would be exceedingly small even for masses as small as the electron and temperatures as high as 40,000,000°.--Paul S. Epstein: Answer to Prof. Størmer's remark. Comment on the fact that whereas Prof. Størmer's method of dealing with the motion of electrons in the magnetic field of the earth is based on classical mechanics, the author's method takes relativity into account.

Official Publications Received.

BRITISH

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No. 3221, Vol. 128]

Southern Rhodesia Geological Survey. Short Report No. 25: The Geology of the Country around the Norah, Molly and Umboe Copper Claims, Lomagundi District. By A. M. Macgregor. Pp. 10+1 map. Short Report No. 26: A Geological Traverse down the Lower Inyantue Valley, Wankie District. By H. B. Maufe. Pp. 10+1 map. (Salisbury.) Department of Health for Scotlaud. Second Report of the Scottish Advisory Committee on Rivers Pollution Prevention. River Esk (Mid-lothian) Pn. 44. (Ediphyrch cod Lundror H. M. Scottish

lothian). Pp. 44. (Edinburgh and London: H.M. Stationery Office.)

Iotnian). PP. 44. (Editiourgin and Econom. Anal. Subscience, Cambridge 9d. net. Biological Reviews and Biological Proceedings of the Cambridge Philosophical Society. Edited by H. Munro Fox. Vol. 6, No. 8, July. Pp. 221-344. (Cambridge: At the University Press.) 12s. 6d. net. Empire Marketing Board, May 1930 to May 1931. (E.M.B. 41.) Pp. 75. (London: H.M. Stationery Office.) 1s. net.

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FORMULT, H. M. Stationery Unite.) 18 Aet. FORMON. Publikationer og mindre Meddeleiser fra Københavns Observatorium. Nr. 76: The Possible Solutions of the "Equations of Fit" on the Standard Model. By Bengt Strömgren. Pp. S. Nr. 77: The Point-Source Model with Coefficient of Opacity $k=k_DT^{-3\cdot6}$. By Bengt Strömgren. Pp. 28. (København.) Publications de l'Observatoire Astronomique de l'Université de Poznan. Tome 1. Pp. xi+75+5 planches. (Poznan.) Smithsonian Institution : Bureau of American Ethnology. Bulletin 100: The Ruins at Kiatuthlanna, Eastern Arizona. By Frank H. H. Roberts, Jr. Pp. viii+195+47 plates. (Washington, D.C.: Govern-ment Printing Office.) 65 cents. Statens Meteorologisk-Hydrografiska Anstalt. Årsbok, 10, 1928. iv. Meteorologiska iakttagelser i Sverige, Band 70. Pp. x+179, 7.00 kr. Arsbok, 12, 1930. i. Manadsöversikt över väderlekecoth vattentillgång jämte anstaltens ärsberättelse. Pp. 98. 2.50 kr. Årsbok, 12, 1930. i. Nederbörden i Sverige. Pp. 160. 5.00 kr. (Stockholm.) Journal of the Faculty of Science, Imperial University of Tokyo. Section 2: Geology, Mineralogy, Geography, S ismology. Vol. 8, Part 8. Pp. 181-183+10 plates. (Tokyo: Marcuzen Co., Ltd.) 1.20 yen. Collection des travaux chimiques de Tchécoslovaquie. Rédigée et publié par E. Votoček et J. Heyrovský. Annés 3, No. 6, Juin. Pp. 285-332. (Prague: Regis Societas Scientiarum Bohemice.) Ministry of Finance, Egypt: Coastguards and Fisheries Service. Report on the Fisheries of Egypt for the Year 1929. By R. S. Wimpenny. Pp. iii+92. (Cairo: Government Press.) 5 P.T. Report on the Ataional Research Council for the Year July 1, 1929-June 30, 1930. Pp. iv+119. (Washington, D.C.: Government Printing Office.) 15 cents. U. Department of Agriculture. Farmers' Bulletin No.1642: Chalcid Control in Alfalfa.Seed Production. By V. L. Wildermuth. Pp. ii+14. (Washington, D.C.: Government Frinting Office.) Troceedings of the United States National Muesum. Vol. 79, Art. 9: A new Species of Troödont Dinosaur from th

Bearbeitet von Sven Aslund. Pp. 29. (Stockholm.)

CATALOGUES.

Bulletin No. 3: Spectrum Analysis. Pp. 19. (London : Adam Hilger, Ltd.) Verlag: Publications: Livres de Fonds. Pp. 141. (Berlin: W. Junk.)

Diary of Societies.

SATURDAY, JULY 25.

INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS (South-Eastern District) (at Hastings Town Hall), at 11.30 A.M.

TUESDAY, JULY 28.

QUEKETT MICROSCOPICAL CLUB (at 11 Chandos Street, W.1), at 7.

CONGRESSES.

JULY 17 TO 25.

BRITISH MEDICAL ASSOCIATION (at Eastbourne).

JULY 24 TO 30.

BRITISH COMMONWEALTH EDICATION CONFERENCE (at Bedford College).-Subject: EDUCATION IN A CHANGING EMPIRE :-

Education in India. Individual Education

Modern Psychology in Education. Examinations and Tests.

JULY 26 TO 31.

INTERNATIONAL CONGRESS ON RADIOLOGY (at Paris).