

indicates that the asymmetry of the absorption curve is an integral property of the visual purple. Bleached visual purple gave the same constant, showing that bleaching does not cause drastic splitting of the molecule. The molecular weight is probably about 270,000 and the molecule itself not quite spherical.

B. H. WILLIER, MARY E. RAWLES and F. C. KOCH: Biological differences in the action of synthetic male hormones on the differentiation of sex in the chick embryo. The hormones were injected into eggs incubated for 43-72 hours. Androsterone and dehydroandrosterone are more toxic than testosterone propionate; the former have both masculinizing and feminizing effects, whereas the latter has a masculinizing effect only on differentiating gonads and gonoducts.

F. D. MURNAGHAN: (1) The generalized Clebsch-Gordan formula. (2) Analysis of representations of the real orthogonal group.

A. L. FOSTER: Natural systems.

H. M. MACNEILLE: Extensions of measure.

R. OLDENBURGER: Representation and equivalence of forms.

Forthcoming Events

Tuesday, June 28

NATIONAL PHYSICAL LABORATORY, at 2.30.—Annual Inspection by the General Board.

ROYAL ANTHROPOLOGICAL INSTITUTE, at 9.—H. J. Brauholtz: "Ethnographical Museums and the Collector: Aims and Methods" (Presidential Address).

Thursday, June 30

ROYAL SOCIETY, at 4.30.—Prof. A. N. Richards: "Processes of Urine Formation" (Croonian Lecture).

Appointments Vacant

APPLICATIONS are invited for the following appointments, on or before the dates mentioned.

JUNIOR SCIENTIFIC OFFICER at the Building Research Station, Watford—The Establishment Officer, Department of Scientific and Industrial Research, 16 Old Queen Street, Westminster, S.W.1 (June 27—quote ref. J. 38/6).

PRINCIPAL of Wakefield Technical College—The Director of Education, 27 King Street, Wakefield (June 27).

LECTURER IN BOTANY in Bedford College for Women, Regent's Park, London, N.W.1—The Secretary (July 1).

LECTURER IN ELECTRICAL ENGINEERING in the Brighton Technical College—The Education Officer, Education Offices, 54 Old Steine, Brighton, 1 (July 1).

LECTURER IN MECHANICAL ENGINEERING in the School of Engineering, Khartoum—The Controller, Sudan Government London Office, Wellington House, Buckingham Gate, S.W.1 (July 1).

ASSISTANT LECTURER IN MECHANICAL ENGINEERING in the Manchester Municipal College of Technology—The Principal (July 4).

DEMONSTRATOR IN PHYSIOLOGY and DEMONSTRATOR IN PHYSICS in the London (Royal Free Hospital) School of Medicine for Women—The Warden, 8 Hunter Street, W.C.1 (July 8).

DEMONSTRATOR IN BOTANY in the University of Birmingham—The Secretary (July 9).

CHEMIST in the Department of the Government Chemist—The Government Chemist, Clement's Inn Passage, Strand, W.C.2 (July 9).

IRWIN PROFESSOR OF AGRICULTURE in the Benares Hindu University—The Pro-Vice-Chancellor (July 15).

LECTURER IN ANATOMY in the University of Aberdeen—The Secretary (July 15).

DEMONSTRATOR IN PHYSICS in King's College, Newcastle-upon-Tyne—The Registrar (July 16).

GOLDSMID PROFESSOR OF MATHEMATICS in University College, London—The Academic Registrar, University of London, Senate House, W.C.1 (July 29).

SECRETARY of the Institution of Professional Civil Servants—The Hon. Secretary, I.P.C.S., 69 Victoria Street, London, S.W.1 (July 30).

SCIENTIFIC OFFICER under the Water Pollution Research Board—The Establishment Officer, Department of Scientific and Industrial Research, 16 Old Queen Street, Westminster, S.W.1 (July 4—quote ref. J. 38/7).

ASSISTANTS (grade III) in the Meteorological Office—The Secretary (S.2.a.), Air Ministry, Adastral House, Kingsway, W.C.2.

Reports and other Publications

(not included in the monthly Books Supplement)

Great Britain and Ireland

Imperial Forestry Institute: University of Oxford. The Black Poplars and their Hybrids cultivated in Britain. By G. S. Candale and Members of the Staff of the Imperial Forestry Institute. Pp. 52+1 plate. (Oxford: Imperial Forestry Institute.) 3s. 6d. [76]

University of Reading: National Institute for Research in Dairying. Annual Report for the Year ending 30th September 1937. Pp. viii+80. (Reading: National Institute for Research in Dairying.) [106]

Department of Scientific and Industrial Research. Report of the Building Research Board, with a Report of the Director of Building Research, for the Year 1937. Pp. vi+172+13 plates. (London: H.M. Stationery Office.) 3s. 6d. net. [106]

Agricultural Research Council. A.R.C. Report Series, No. 3: Dairy Research; a Report by the Dairying and Animal Products Committee on a Review undertaken by them of Dairy Research in Progress in Great Britain, including a Review of the Work of Dairy Bacteriologists in England and Wales. Pp. v+101+1 map. (London: H.M. Stationery Office.) 2s. net. [106]

Society of Chemical Industry: Chemical Engineering Group. Proceedings, Vol. 19, 1937. Pp. 138+1 plate. (London: Chemical Engineering Group.) 21s. [136]

Forestry Commission. Eighteenth Annual Report of the Forestry Commissioners for the Year ending September 30th, 1937. Pp. 50. (London: H.M. Stationery Office.) 1s. net. [136]

Ministry of Health. Circular 1705: Maternal Mortality: Medical Practitioners called in by Midwives. Pp. 3. (London: H.M. Stationery Office.) 1d. net. [156]

Association of Special Libraries and Information Bureaux. Select List of Standard British Scientific and Technical Books. Compiled at the request of the British Council. Second edition, revised and enlarged. Pp. 42. (London: ASLIB.) 2s. 6d. [156]

Air Ministry: Aeronautical Research Committee: Reports and Memoranda. No. 1807 (2822): Measurements of Acceleration and Water Pressure on a Seaplane when dropped into Water. By E. T. Jones, G. Douglas, C. E. Stafford and R. K. Cushing. Pp. 18+11 plates. 5s. net. No. 1811 (2807): Note on Wind Tunnel Tests on the Design of Cabins. By J. H. Hartley, D. Cameron and W. H. Curtis. Pp. 17+1 plate. 3s. net. No. 1813 (2920): Drag Tests on a Fabric covered, and a Polished Plywood, Wing in the 24 ft. Tunnel. By K. V. Diprose. Pp. 15. 2s. 6d. net. No. 1815 (3204): The Divergence Speed of an Elastic Wing. By A. G. Pugsley and G. A. Naylor. Pp. 20. 3s. net. No. 1817 (3194): Experiments on an Elliptic Cylinder in the Compressed Air Tunnel. By D. H. Williams and A. F. Brown. Pp. 10. 1s. 6d. net. No. 1820 (2873): Notes on a Method of Analysis of Ground Run during Take-off. By S. B. Gates. Pp. 13. 2s. net. (London: H.M. Stationery Office.) [156]

The Colonial Empire in 1937-38: Statement to accompany the Estimates for Colonial and Middle Eastern Services 1938. (Cmd. 5760.) Pp. 79. (London: H.M. Stationery Office.) 1s. 3d. net. [156]

Other Countries

Indian Science Congress Association: Silver Jubilee, 1938. The Progress of Science in India during the past Twenty-five Years. Edited by Dr. B. Prashad. Pp. lvi+767. (Calcutta: Indian Science Congress Association.) 5 rupees. [76]

Light: Corpuscle vs. Wave. By Charles A. Spickler. Pp. 8. (Yardley, Penna.: The Author.) [106]

Bericht über das Geobotanische Forschungsinstitut Rübel in Zürich für das Jahr 1937. Von E. Rübel und W. Lüdi. Pp. 104. (Zürich: Geobotanische Forschungsinstitut Rübel.) [106]

Publications of the Kapteyn Astronomical Laboratory at Groningen. Edited by Prof. Dr. P. J. Van Rhijn. No. 48: Dark Clouds in Kapteyn's Special Areas 2, 5, 9 and 24 and the Proper Motions of the Stars in these Regions. By B. Hiemstra. Pp. ii+74+1 plate. (Groningen: Hottsema Bros.) [136]

Progress Report on the Scheme of Research on Quality in Crops with special reference to Rice, during the Period December 1934 to November 1937. By Dr. A. Sreenivasan. Pp. 1+22. (Bangalore: Indian Institute of Science.) [136]

Reports of the Great Barrier Reef Committee. Vol. 4, Part 3, Nos. 7, 8 and 9. Pp. 51-142+4 plates. (Brisbane: Government Printer.) [136]

Canada. Department of Mines and Resources: Mines and Geology Branch, Bureau of Mines. Limestones of Canada: their Occurrence and Characteristics. Part 4: Ontario. By M. F. Goudge. (No. 781.) Pp. xii+361+4 maps. (Ottawa: King's Printer.) 75 cents. [136]

Egyptian University. Bulletin of the Faculty of Science No. 14: The Osteology of the Lizard *Scincus scincus* (Linn.). By M. R. El-Toubi. Pp. 38. 3.5 P.T. Bulletin of the Faculty of Science No. 15: Egyptian Soil Structure in relation to Plants. By A. H. Montasir. Pp. 47+5 plates. (Cairo: Egyptian University.) [146]

San Diego Society of Natural History. Occasional Papers No. 4: A Statistical Study of the Rattlesnakes. By Laurence M. Klauber. Pp. 53. Transactions, Vol. 8, No. 33: New and Obscure Decapod Crustacea from the West American Coasts. By Steve A. Glassell. Pp. 411-454. Vol. 8, No. 34: A Study of the Skull of the Pleistocene Stork, *Ciconia maltha*, Miller. By Loye Miller. Pp. 455-462. (San Diego, Cal.: Society of Natural History.) [146]

University of Illinois: Engineering Experiment Station. Circular No. 31: Papers presented at the Short Course in Coal Utilization held at the University of Illinois, May 25-27, 1937. Pp. 200. 50 cents. Bulletin No. 300: Pressure Losses resulting from Changes in Cross-Sectional Area in Air Ducts. By Prof. Alonzo P. Kratz and Julian R. Fellows. Pp. 58. 65 cents. (Urbana, Ill.: University of Illinois Engineering Experiment Station.) [146]