

Saturday, November 18

QUEKETT MICROSCOPICAL SOCIETY (at the Royal Society, Burlington House, Piccadilly, London, W.1), at 2.30 p.m.—Papers.

SHEFFIELD METALLURGICAL ASSOCIATION (at 198 West Street, Sheffield, 1), at 2.30 p.m.—Mr. R. A. Hacking: "Technical and Economic Problems in the Heavy Iron and Steel Industry".

APPOINTMENTS VACANT

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

LECTURER (full-time) in the Ashington Mining School (applicants should possess a Degree in Physics or General Science and be prepared to take MATHEMATICS to School Certificate standard)—The Director of Education, County Hall, Newcastle-upon-Tyne 1 (November 15).

GRADUATE LECTURER (full-time) in MATHEMATICS in the Medway Technical College, Gillingham—The District Education Officer, Fort Pitt House, Rochester (November 16).

LECTURER (full-time) in MECHANICAL ENGINEERING in the Schools of Technology, Art and Commerce, Oxford—The Chief Education Officer, City Education Office, 77 George Street, Oxford (November 17).

SPEECH THERAPIST (full-time) to undertake duties in the areas of the Bridgwater, Taunton and Yeovil Education Committees—The Clerk to the Taunton Borough Education Committee, Education Office, Municipal Buildings, Taunton (November 18).

AGRICULTURAL TRAINING OFFICER to organize the scheme for the training in Agriculture and Horticulture of men and women released from War service—The Chief Executive Officer, Herefordshire War Agricultural Executive Committee, 4 St. John Street, Hereford (November 20).

HEAD OF THE ENGINEERING DEPARTMENT—The Principal, Stockport College for Further Education, Stockport (November 20).

LECTURER IN BIOLOGY, with Botany or Physiology as subsidiary subject—The Clerk to the Governors, South-East Essex Technical College and School of Art, Longbridge Road, Dagenham (November 20).

LECTURER IN GEOGRAPHY—The Principal and Clerk to the Governing Body, Wigan and District Mining and Technical College, Wigan (November 22).

LECTURER (man or woman) in MATHEMATICS—The Registrar, University College, Southampton (December 1).

ASSISTANT (temporary) in THE DEPARTMENT OF ZOOLOGY—The Deputy Director, Museum and Art Gallery, Bristol 8 (December 9).

ENGINEERS by the Government of Nigeria for the Posts and Telegraphs Department—The Ministry of Labour and National Service, Room 432, Alexandra House, Kingsway, London, W.C.2 (quoting Reference No. D.971.A) (December 11).

DIRECTOR OF RESEARCH—The Secretary, British Internal Combustion Engine Research Association, 111-112 Buckingham Avenue, Slough, Bucks. (December 31).

LECTURER IN EXPERIMENTAL ZOOLOGY—The Registrar, The University, Liverpool (January 5).

DIRECTOR—The President, British Coal Utilisation Research Association, 13 Grosvenor Gardens, London, S.W.1 (January 31).

MASTER FOR ENGINEERING SUBJECTS, including Workshop Practice—The Principal, Erith Technical College, Beyerdeere, Kent.

TEACHER FOR PHYSICS AND CHEMISTRY—The Acting Principal, Technical Institute, Sheerness.

GRADUATE ASSISTANT (temporary) to teach chiefly PHYSICS and MATHEMATICS in the Thomas Richards Technical Institute, Teddegar—The Acting Director of Education, Higher Education Department, County Hall, Newport, Mon.

SPEECH THERAPIST—The Director of Education, Shire Hall, Nottingham.

BOTANIST (male) in the BRANCH OF PLANT PATHOLOGY AND BOTANY of the Department of Agriculture, Southern Rhodesia—The Official Secretary, Rhodesia House, 49 Strand, London, W.C.2.

REPORTS and other PUBLICATIONS

(not included in the monthly Books Supplement)

Great Britain and Ireland

Geological Survey of Great Britain. Wartime Pamphlet No. 13: Limestones of Scotland. Area 5: Central Grampians. By Dr. J. G. C. Anderson; with Analyses by H. G. M. Hardie. Second edition. Pp. 20. 1s. Area 6: Banffshire and the North-East Grampians. By Dr. J. G. C. Anderson; with Analyses by Dr. A. Muir. Second edition. Pp. 22. 1s. 3d. (London: Geological Survey and Museum.) [139]

Health Abounding: the Social Credit National Health Service; an Outline. By Aubrey T. Westlake. Second edition, revised and enlarged. Pp. 52. (London: Social Credit Party.) 1s. [159]

Proceedings of the Royal Society of Edinburgh. Section A (Mathematical and Physical Sciences). Vol. 62, Part 1, No. 9: On the Line-Geometry of the Riemann Tensor. By H. S. Ruse. Pp. 64-73. 1s. 6d. Vol. 62, Part 1, No. 10: The Factorial Analysis of Multiple Item Tests. By D. N. Lawley. Pp. 74-82. 1s. 6d. Vol. 62, Part 1, No. 11: The Identification of Klein's Quartic. By Dr. W. L. Edge. Pp. 83-91. 1s. 6d. (Edinburgh and London: Oliver and Boyd.) [189]

Ministry of Home Security. F.G. Leaflet No. 19: Methods of Reducing the Fire Risk in Fibre Building Boards in Wartime Building. Pp. 8. (London: Ministry of Home Security.) [199]

Motherhood in the Post-War World. An Address by Dr. Grantly Dick Read. (Published for the Council of Seven Beliefs.) Pp. ii+20. (London: William Heinemann (Medical Books), Ltd.) 6d. net. [209]

Institute of Welding: Welding Research Council. Recommended Technique for making Fillet Welds in the Downhand, Vertical and Overhead Positions. (T. 13.) Pp. 8. (London: Institute of Welding.) [219]

National Trust for Places of Historic Interest or Natural Beauty. Report of the Council for the Years 1943-1944. Pp. 62+8 plates. (London: National Trust.) [219]

The Heather Beetle (*Lochmea suturalis*): an Enquiry into its Biology and Control. Made on behalf of the British Field Sports Society by Dr. A. E. Cameron, J. W. McHardy and Dr. A. H. Bennett. Pp. 69+13 plates. (Petworth: British Field Sports Society.) 1s. [229]

The Church and the Planning of Britain. Report of the Social and Industrial Commission of the Church Assembly, 1944. (C.A. 753.) Pp. 32. (London: Church Assembly.) 2s. [259]

British Astronomical Association: its Nature, Aims and Methods. Pp. 34. (London: British Astronomical Association.) 3s. [259]

British Council. Report for 1943-1944. Pp. 138+12 plates. (London: British Council.) [279]

Social Insurance. Part 1. (Cmd. 6550.) Pp. 64. (London: H.M. Stationery Office.) 6d. net. [279]

Proceedings of the Royal Society of Edinburgh. Section A (Mathematical and Physical Sciences). Vol. 62, Part 1, No. 12: Quantum Mechanics of Fields, 2. Statistics of Pure Fields. By Prof. Max Born and Dr. H. W. Peng. Pp. 92-102. 2s. Vol. 62, Part 1, No. 13: A Problem in the Random Distribution of Particles. By Dr. William Ogilvie Kermack. Pp. 103-115. 2s. 3d. (Edinburgh and London: Oliver and Boyd.) [289]

Other Countries

University of Illinois: Engineering Experiment Station. Bulletin No. 350: Fatigue Strength of Fillet-Weld and Plug-Weld Connections in Steel Structural Members. By Wilbur M. Wilson, Walter H. Bruckner, John E. Duberg and Howard C. Beede. Pp. 94. 1 dollar. Bulletin No. 351: Temperature Drop in Ducts for Forced-Air Heating Systems. By Alonzo P. Kratz, Seichi Konzo and Richard B. Engdahl. Pp. 60. 65 cents. Reprint No. 28: Tenth Progress Report of the Joint Investigation of Fissures in Railroad Rails. By Ralph E. Cramer and Russell S. Jensen. Pp. 24. 15 cents. Reprint No. 29: Second Progress Report of the Investigation of Shelly Spots in Railroad Rails. By Ralph E. Cramer. Pp. 10. 15 cents. Reprint No. 30: Second Progress Report of the Investigation of Fatigue Failures in Rail Joint Bars. By Norville J. Alleman. Pp. 12. 15 cents. Reprint No. 31: Principles of Heat Treating Steel. By Prof. Harold L. Walker. Pp. 46. 15 cents. (Urbana, Ill.: University of Illinois Engineering Experiment Station.) [178]

Kungl. Svenska Vetenskapsakademiens Handlingar. Serien 3, Band 20, No. 11: An Improved Photographic Method for the Quantitative Study of the Reflexion of X-Rays by Crystals. By J. A. Wasastjerna. Pp. 26+17 plates. Serien 3, Band 20, No. 12: On the Apparent Distributions and Properties of Triple and Multiple Stars. By Åke Wallenquist. Pp. 33. Serien 3, Band 20, No. 13: Die Hydra-ärinenfauna Sudbrasilens und Paraguays. Von O. Lundblad. Teil 5. Pp. 182+10 plates. Serien 3, Band 21, No. 1: On the Morphology of the Lower Jaw of Stegocephala with special reference to Eotriassic Stegocephalians from Spitsbergen. 2. General Part. By Tage Nilsson. Pp. 70. (Stockholm: Almqvist and Wiksells Boktryckeri A.-B.) [218]

Proceedings of the American Philosophical Society. Vol. 88, No. 1 (June 16, 1944): Symposium on Taxation and the Social Structure. Papers read before the American Philosophical Society, Midwinter Meeting, February 18-19, 1944. Pp. iii+70. (Philadelphia: American Philosophical Society.) [228]

Smithsonian Miscellaneous Collections. Vol. 104, No. 4: The Influence of Light and of Carbon Dioxide on the Respiration of Etiolated Barley Seedlings. By Robert L. Weintraub and Earl S. Johnston. (Publication 3769.) Pp. ii+16+2 plates. Vol. 104, No. 5: Weather Predetermined by Solar Variation. By C. G. Abbot. (Publication 3771.) Pp. ii+44. Vol. 104, No. 6: Smithsonian Pyrheliometry and the Andean Volcanic Eruptions of April 1932. By L. B. Aldrich. (Publication 3772.) Pp. ii+6. (Washington, D.C.: Smithsonian Institution.) [228]

U.S. Department of Agriculture. Circular No. 697: Laboratory Studies on the Toxicity of Tartar Emetic to the Mexican Fruitfly. By C. C. Plummer. Pp. 14. (Washington, D.C.: Government Printing Office.) [258]

Herbertia. Vol. 10, Tenth Anniversary edition. Edited by Hamilton P. Traub. Pp. 198. (Salinas, Calif.: American Amaryllis Society.) [298]

Associação Portuguesa para o progresso das Ciências. O Contributo dos descobrimentos dos Espanhóis e Portugueses nos séculos XV e XVI para o conhecimento científico do Homem e das raças humanas. Por Prof. A. A. Mendes Corrêa. Pp. 19. (Pôrto: Imprensa Portuguesa.) [298]

U.S. Department of Agriculture. Technical Bulletin No. 871: *Aspanteles diatraeae*, a Braconid Parasite of the Southwestern Corn Borer. By E. G. Davis. Pp. 20. (Washington, D.C.: Government Printing Office.) [298]

Publications of the Observatory of the University of Michigan. Vol. 9, No. 1: Fifth List of New Southern Double Stars found at the Lamont-Hussey Observatory of the University of Michigan at Bloemfontein, South Africa. By Richard A. Rossiter. Pp. 6. (Ann Arbor, Mich.: University of Michigan.) [308]

Papers of the Michigan Academy of Science, Art and Letters. Editors: Eugene S. McCartney and William C. Steere. Vol. 28 (1942). Pp. xiii+701+52 plates. (Ann Arbor, Mich.: University of Michigan Press; London: Oxford University Press.) 28s. net. [49]

Ontario Research Foundation. Report for the Year 1943. Pp. 28. (Toronto: Ontario Research Foundation.) [49]

Catalogues

Old Medicine: Art in Medicine, Renaissance Medicine—Instruments. (Catalogue 5.) Pp. 40. (London: E. Weil.)

The 'Pyrobit' Tester. Pp. 2. (Manchester: The Acru Electric Tool Manufacturing Co., Ltd.)

Light's Organic Chemicals. Pp. 14. (Wraysbury: L. Light and Co., Ltd.)

Additional German Publications being reproduced in America by the photo-offset process under authorization of the Alien Property Custodian in Washington. Pp. 8. (London: H. K. Lewis and Co., Ltd.)