

**The 2-Stage Rotary Engine as a New Concept in Diesel Power** (6 p.m.) Institution of Mechanical Engineers, jointly with the Society of Automobile Engineers of America, at 1 Birdcage Walk, London SW1.

Thursday, December 10

**Active Transport of Salts and Water in Living Tissues** (two-day discussion meeting) Royal Society, at 6 Carlton House Terrace, London SW1.

**Addition Copolymers of the Vinyl Ester of Branched Chain Fatty Acids for Use in Electrodeposition Paints** (7 p.m.) Dr W. J. van Westrenon and Mr W. H. M. Nieuwenhuis, Oil and Colour Chemists' Association, at East Ham Technical College, High Street South, London E6.

**Clinical Aspects of Ultrasonic Diagnosis** (10 a.m.) British Medical Ultrasonics Group, in the Barnes Hall of the Royal Society of Medicine, 1 Wimpole Street, London W1.

**Development of Gloss Paints in the Twentieth Century** (6 p.m.) Mr I. R. McCallum and Mr M. Devine, Oil and Colour Chemists' Association, at the St. Enoch Hotel, Glasgow.

**Microelectronics** (7.30 p.m.) Mr Newham, Institution of Electronic and Radio Engineers, Scottish Section, at Robert Gordon's Institute of Technology, Schoolhill, Aberdeen.

**Modern Trends in Traffic Control** (7.30 p.m.) Mr D. G. Hornby, Institution of Electrical Engineers, at Stevenage College of Further Education, Stevenage, Herts.

**Nuclear Power Station Construction** (7.45 p.m.) Mr K. J. Broome, Institution of Electrical Engineers, at the Castle Hotel, Taunton.

**Recent Trends in Oscilloscope Technique** (6 p.m.) Mr B. Ellison, Institution of Electronic and Radio Engineers, Instrumentation and Control Group, at 9 Bedford Square, London WC1.

**Self-poisoning and Suicide** (5.30 p.m.) Professor N. Kessel, University of London, at the Institute of Child Health, 30 Guilford Street, London WC1. (Last of fifteen lectures on "The Scientific Basis of Medicine" organized by the British Postgraduate Medical Federation.)

**Some Applications of Medical Electronics** (6.15 p.m.) Mr D. W. Hill, Institution of Electrical Engineers, at the University College of Swansea, Singleton Park, Swansea.

**Studies in Somalia** (7.30 p.m.) Dr K. M. Cahill, Royal Society of Tropical Medicine and Hygiene, at Manson House, 26 Portland Place, London W1.

**The Design and Function of Static Seals** (all-day conference) Institution of Mechanical Engineers, at 1 Birdcage Walk, London SW1.

**What is the Significance of Critical Speeds on High Speed Rotating Machines?** (6 p.m., discussion) Institution of Mechanical Engineers, Steam Plant Group, at 1 Birdcage Walk, London SW1.

Friday, December 11

**Chloride Titanium Dioxide Pigments—Their Value** (6.30 p.m.) Oil and Colour Chemists' Association, at the Liverpool Building and Design Centre, Hope Street, Liverpool 1.

**Determination of Free Ion-Pair Yields by Pulse Radiolysis** (1 p.m.) Dr C. Capellos, Royal Institution, Photochemistry Discussion Group, at 21 Albemarle Street, London W1.

**Extra-Galactic Nebulae**, Professor J. Heidmann; **Modern Theories of Earth and Planetary Structure**, Professor S. K. Runcorn (4.30 p.m.) Royal Astronomical Society, in the Scientific Societies Lecture Theatre, 23 Savile Row, London W1.

**Metamerism, Colour Constancy and Related Problems** (6 p.m.) Mr R. Booth, Colour Group (Great Britain), jointly with the Society of Dyers and Colourists, in the Mechanical Engineering Department, Imperial College, London SW7.

**The Computer: A Challenge to the Human Brain** (9 p.m.) Mr Basil de Ferranti, Royal Institution, at 21 Albemarle Street, London W1.

**The Fundamental Reference Frame and the Positions of Faint Objects** (2 p.m., discussion meeting) Royal Astronomical Society, at Burlington House, Piccadilly, London W1.

Monday, December 14

**Electrical Research on British Rail** (7 p.m.) Mr L. L. Alston, Institution of Electrical Engineers, at the College of Further Education, Crewe.

**Optical Studies of Adsorbed Layers at Interfaces** (two-day symposium) Faraday Society, at the Royal Institution, 21 Albemarle Street, London W1.

**Railway Breakdown Services** (5.30 p.m.) Mr K. R. M. Cameron, Institution of Mechanical Engineers, Railway Division, at 1 Birdcage Walk, London SW1.

## Reports and Publications

(not included in the monthly Books Supplement)

### Great Britain and Ireland

Imperial College. City and Guilds College. 1967/1970 Research Report. Pp. iii + 179 + 16 plates. (London: Imperial College, 1970.) [2010]

Marine Biological Station, University of Liverpool, Port Erin, Isle of Man. Annual Report No. 82 for 1969. Pp. 44. (Liverpool: Liverpool University Press, 1970.) [2010]

Institute of Personnel Management. Annual Report 1969/1970. Pp. 48. (London: Institute of Personnel Management, 5 Winsley Street, W1, 1970.) [2110]

Ministry of Transport: Road Research Laboratory. RRL Report LR 357: A Review of Road Traffic Noise—The Working Group on Research into Road Traffic Noise. Pp. vi + 94. (Crowthorne, Berkshire: Road Research Laboratory, 1970.) *Gratis.* [2110]

Centre for Environmental Studies. Third Annual Report, April 1969 to March 1970. Pp. 42. (London: Centre for Environmental Studies, 5 Cambridge Terrace, NW1, 1970.) [2110]

Bulletin of the British Museum (Natural History). Entomology. Vol. 25, No. 5: Revisional Notes on African *Charaxes* (Lepidoptera: Nymphalidae), Part VI. By V. G. L. van Someren. Pp. 197–250 + 11 plates. (London: British Museum (Natural History), 1970.) 71s. [2110]

### Other Countries

Republic of South Africa: Department of Industries. Division of Sea Fisheries Investigational Reports. No. 83: Hydrological Observations in the South-East Atlantic Ocean. By J. G. Welsh and G. A. Visser. Pp. 24. No. 86: Migration of the Pilchard *Sardinops ocellata* in Southern Africa. By G. G. Newman. Pp. 6. No. 90: The Japanese Longline Fishery Off the South African Coast, 1964–1967. By C. S. de V. Negen. Pp. 13. (Sea Point, Cape Town: Director of Fisheries, 1970.) [1410]

US Department of Commerce: Bureau of the Census. Governmental Finances in 1968–69. Pp. 56. (Washington, DC: Government Printing Office, 1970.) \$0.60. [1510]

The Royal Observatory at the Cape of Good Hope, 1820–1970—a Sesquicentennial Offering. Pp. 44. (Cape Town: Royal Observatory; Hailsham, Sussex: Royal Greenwich Observatory, 1970.) 35c; 48 6d. [1610]

Newsletters on Stratigraphy, Vol. 1, No. 1, 1970. Edited by Professor G. Lüttig. Pp. 1–58. (Leiden: E. J. Brill, 1970.) [1610]

US Department of the Interior: Geological Survey. Water-Supply Paper 2002: Water in Urban Planning, Salt Creek Basin, Illinois. By Andrew M. Spleker. (Prepared in cooperation with the Northeastern Illinois Planning Commission.) Pp. ix + 147. (Washington, DC: Government Printing Office, 1970.) \$1. [1910]

University of Virginia. Centre for the Study of Science, Technology and Public Policy—Second Annual Report, June 30, 1970. Pp. 24. (Charlottesville, Virginia: University of Virginia, 1970.) [1910]

Report of the Board of Trustees, National Art Gallery and Dominion Museum for the year ended 31 March, 1970. Pp. 38. (Wellington: Government Printer, 1970.) \$0.25. [2010]

Records of the Dominion Museum, Wellington. Vol. 6, No. 17 (January 26, 1970): The Stone Crab *Lithodes murrayi* Henderson, The First New Zealand Record. By J. C. Yaldwyn and E. W. Dawson. Pp. 275–284. Vol. 6, No. 18 (20 February, 1970): Classification of New Zealand Arionacea (Mollusca: Pulmonata), 3. By F. M. Climo. Pp. 285–366. (Wellington, New Zealand: Dominion Museum, 1970.) [2010]

A Selected Bibliography of Library and Information Science, Spring 1970. Pp. 16. (Cleveland, Ohio: Center for Documentation and Communication Research, School of Library Science, Case Western Reserve University, 1970.) [2010]

US Department of the Interior: Geological Survey. Bulletin 1261-G: Mineral Resources of the Emigrant Basin Primitive Area, California. By E. W. Tooker, H. T. Morris and Paul V. Fillo. Pp. vii + 70 + plate 1. Bulletin 1285: Geology of the Sycamore Flat and Paraiso Springs Quadrangles, Monterey County, California. By David L. Durham. Pp. iv + 34 + 4 plates. (Washington, DC: Government Printing Office, 1970.) [2010]

Annals of the New York Academy of Sciences, Vol. 170, Article 1: The Hepatic Circulation and Portal Hypertension. By R. C. Britton, C. M. Levey and 59 other authors. Pp. 1–405. (New York: New York Academy of Sciences, 1970.) \$23. [2010]

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