

announcements

Awards

The Royal Society medals for 1974 have been awarded to the following:

The Copley Medal to Sir William Hodge.

The Rumford Medal to Sir Alan Cottrell.

A Royal Medal to Sir Fred Hoyle.

A Royal Medal to S. Brenner.

A Royal Medal to Sir George Edwards.

The Davy Medal to J. Baddiley.

The Darwin Medal to P. M. Sheppard.

The Hughes Medal to P. H. Fowler.

The Mullard Medal to F. B. Mercer.

The Esso Medal to K. A. Bray.

International meetings

February 11–14, **Spectrum Utilisation in Radio Communication**, London (Conference Department, Institution of Electrical Engineers, Savoy Place, London WC2R 0BL).

February 12–14, **Solid State Circuits**, Philadelphia (The Institute of Electrical and Electronics Engineers Technical Activities Board, 345 East 47th Street, New York, NY 10017, USA).

February 21, **Particle Detectors and Dosimeters**, London (The Meetings Officer, The Institute of Physics, 47 Belgrave Square, London SW1 8QX).

March 12–14, **Particle Accelerator Conference**, Washington (The Institute of Electrical and Electronics Engineers Technical Activities Board, 345 East 47th Street, New York, New York 10017, USA).

March 17–20, **Conference on Surfaces**, Warwick (The Meetings Officer, The Institute of Physics, 47 Belgrave Square, London SW1 8QX).

March 17–25, **Oceanology International 75**, Brighton (BPS Exhibitions Ltd., 4 Seaford Court, 220–222 Great Portland Street, London W1N 5HH).

March 23–29, **5th International Congress on Lymphology**, Buenos Aires/Rio de Janeiro (Professor C. R. Mayall, CP 1822 (2C-00) Rio de Janeiro-GB, Brazil or Dr C. M. Grandval, Austria 2636, Buenos Aires, Argentina).

March 24–25, **Zmuda Memorial Conference on Geomagnetic Field Models**, Colorado Springs (American Geophysical Union, 1707 L Street, NW, Washington, DC 20036, USA).

March 24–26, **Europhysics Conference on Nuclear Interactions at Medium and Low Energies**, Harwell (The Meetings Officer, The Institute of Physics, 47 Belgrave Square, London SW1X 8QX).

March 31–April 4, **2nd International Conference on Clustering Phenomena**, College Park, USA (Dr Harry D. Holmgren, Division de Physique Nucleaire, Institut de Physique Nucleaire, BP no. 1 F-91, Orsay, France).

Reports and publications

Great Britain

Department of Industry. Technology and the Environment—Reports from Scientific Counsellors, No. 7. Pp. 56. (London: Department of Industry, 1974.) [1510]

Ministry of Agriculture, Fisheries and Food. Report of the Director of Marine Fishery Research, January 1972/March 1973. Pp. 72. (Lowestoft, Suffolk: Fisheries Laboratory, 1974.) [2110]

The Panelled Ceiling of the Natural History Museum. (Botany Leaflet No. 1.) Pp. 12. (London: British Museum (Natural History), 1974.) 10p. [2310]

Veneral Diseases. (OHE Briefing, No. 1, October 1974.) Pp. 6. (London: Office of Health Economics, 1974.) [2310]

Forestry Commission. Fifty-Third Annual Report and Accounts, 1972/73. Pp. 112 + 8 plates, 99p. net. Bulletin 47: Work Study in Forestry, Edited by W. O. Wittering. Pp. vii + 190 + 14 plates. £1 net. Forest Record No. 87: Hydraulic Grapple Cranes for Forest Use. By F. B. W. Platt. Pp. 37. 30p. net. (London: HMSO, 1974.) [2510]

Republic of Ireland. Annual Report of the National Drugs Advisory Board, 1973. Pp. 39. (Dublin: National Drugs Advisory Board, 1974.) [2510]

Philosophical Transactions of the Royal Society of London. A: Mathematical and Physical Sciences. Vol. 277, No. 1267: Large Amplitude Waves in Bounded Media. II. The Deformation in an Impulsively Loaded Slab: The First Reflexion. III. The Deformation of an Impulsively Loaded Slab: The Second Reflexion. By J. Y. Kazakia and E. Varley. Pp. 191–150. (London: The Royal Society, 1974.) [2510]

Department of Education and Science. Welsh Office. Scottish Education Department. Department of Education for Northern Ireland. University Grants Committee. Education Statistics for the United Kingdom, 1972. Pp. xxvii + 86. (London: HMSO, 1974.) £1.90 net. [2810]

Engineering Optimization, Vol. 1, No. 1, 1974. Edited by Andrew B. Templeman. Pp. 1–70. Subscription Rates: Great Britain: Individuals who warrant that the journal is for their own personal use and who order direct from the publisher, £6; Libraries, Institutions and others £20. USA/Elsewhere, Individuals \$15.50/£6.50; Libraries etc. \$52/£22.50. (London and New York: Gordon and Breach Science Publishers, Ltd., 1974.) [2910]

Electrocomponent Science and Technology, Vol. 1, No. 1, 1974. Edited by D. S. Campbell. Pp. 1–86. Subscription Rates (per volume of four issues). Great Britain: Individuals who warrant that the journal is for their own personal use and who order direct from the publisher, £7; Libraries, Institutions and others £24. USA/Elsewhere: Individuals \$21 (£9); Libraries etc. \$60 (£26). (London and New York: Gordon and Breach, 1974.) [111]

Other Countries

New Zealand: Department of Health. Environmental Radioactivity Annual Report, 1973. Pp. 37. (Christchurch, NZ: National Radiation Laboratory, 1974.) [1010]

Sveriges Geologiska Undersökning. Arsberättelse för 1973. Pp. 47. Avhandlingar och Uppsatser. Ser. C, No. 705: Reference Localities for Palaeontology and Geology in the Silurian of Gotland. By Sven Laufeld. Pp. 172. Ser. Ag., No. 2: Beskrivning Till Hydrogeologiska Kartbladet Örebro No. (Description of the Hydrogeological Map Örebro No.) By A. Moller, B. Jarnefors, P. Engqvist and C. F. Mullern. Pp. 47. (Stockholm: Sveriges Geologiska Undersökning, 1974. Distribution: Svenska Reproduktions AB, Fack, 162 10 Vallingby.) [1110]

Bulletin of the Fisheries Research Board of Canada, No. 188: Aquaculture in Canada—The Practice and the Promise. By H. R. MacCrimmon, J. E. Stewart and J. R. Brett. Pp. x + 84. (Ottawa: Information Canada, 1974.) \$4.50. [1110]

Canada: Department of Energy, Mines and Resources. Geological Survey of Canada. Bulletin 230: Triassic Rocks of the Southern Canadian Rocky Mountains. By D. W. Gibson. Pp. 65 (8 plates). (Ottawa: Information Canada, 1974.) \$4. [1110]

Science Council of Canada. Issues in Canadian Science Policy, No. 1. Pp. ii + 31. (Ottawa: Information Canada, 1974.) \$1. [1110]

Fundacion Universidad de Bogota Jorge Tadeo Lozano—Facultad de Ciencias del Mar. Museo del Mar. Boletín No. 6: Peces Colectados en el Caribe Colombiano por la Universidad de Miami. Por Francisco J. Palacio. Pp. 137. (Bogota, Colombia: Museo del Mar, 1974.) [1110]

World Health Organization. Technical Report Series, No. 554: Health Aspects of Environmental Pollution Control—Planning and Implementation of National Programmes; Report of a WHO Expert Committee. Pp. 57. (Geneva: WHO; London: HMSO, 1974.) Sw. fr. 6. [1510]

Smithsonian Contributions to Botany, No. 16: Morden-Smithsonian Expedition to Dominica—The Lichens (Thelotremataceae). By Mason E. Hale, jun. Pp. iii + 46. \$1.05. Smithsonian Contributions to Zoology, No. 172: The So-called Cheirodontin Fishes

of Central America with Descriptions of Two New Species (Pisces: Characidae). By William L. Fink and Stanley H. Weitzman. Pp. iii + 46. \$1.05. (Washington, DC: Smithsonian Institution Press, 1974. For sale by US Government Printing Office.) [1710]

World Health Organization. Trace Elements in Relation to Cardiovascular Disease, (Status of the Joint WHO/IAEA Research Programme). Edited by R. Masironi. Pp. 45. Sw. fr. 7. Technical Report Series, No. 550: Fish and Shellfish Hygiene—Report of a WHO Expert Committee convened in co-operation with FAO. Pp. 62. Sw. fr. 6. (Geneva: WHO; London: HMSO, 1974.) [2110]

Canada: Department of Energy, Mines and Resources. Geological Survey of Canada. Bulletin 232: Conodonts of the Waterways Formation (Upper Devonian) of Northeastern and Central Alberta. By T. T. Uyeno. Pp. 93 (8 plates). (Ottawa: Information Canada, 1974.) \$4. [2110]

United States: Department of the Interior: Geological Survey. Water-Supply Paper 2001-D: Appraisal of Operating Efficiency of Recharge Basins on Long Island, New York, in 1969. By D. A. Aronson and G. E. Seaburn. Pp. iv + 22 + plate 1. \$1.45. Professional Paper 655-H: Quantitative and Historical Evidence of Vegetation Changes Along the Upper Gila River, Arizona. By Raymond M. Turner. Pp. v + 20 + plate 1. \$2. Professional Paper 811: Geology of Salars in Northern Chile. By George E. Stoertz and George E. Erickson. Pp. iv + 65. \$1.65. Professional Paper 831-B: General Geology of the Harold D. Roberts Tunnel, Colorado. By Charles S. Robinson, Lawrence A. Warner and Ernest E. Wahlstrom. Pp. iv + 48 + plate 1. \$2.25. (Washington, DC: Government Printing Office, 1974.) [2210]

The Effects of Developments in the Biological and Chemical Sciences on CW Disarmament Negotiations. Pp. 54. (Stockholm: Stockholm International Peace Research Institute, 1974.) [2310]

Smithsonian Contributions to the Earth Sciences, No. 13: Distinctive Properties of Turbiditic and Hemipelagic Mud Layers in the Algero-Balearic Basin, Western Mediterranean Sea. By N. A. Rucpe and D. J. Stanley. Pp. iii + 40. (Washington, DC: Smithsonian Institution Press, 1974. For sale by US Government Printing Office.) 95 cents. [2310]

Radioactive Effluents from Nuclear Power Stations in the Community—Discharge Data, Radiological Aspects. Pp. 19 + 13 tables. (Luxembourg: Commission of the European Communities, Directorate-General for Social Affairs, 1974.) [2310]

Annual Summary of Information on Natural Disasters: Earthquakes, Tsunamis, Volcanic Eruptions, Landslides, Avalanches. No. 7, 1972. Pp. 106. (Paris: The Unesco Press; London: HMSO, 1974.) [2510]

Records of the Australian Museum, Vol. 29, No. 9: *Cymadetta gambosa*, a New Sphaeromatid Isopod (Crustacea) from Australia, with Notes on Its Mating Behaviour. By Thomas E. Bowman and Helmut Kuhne. Pp. 235–244 + plate 8. (Sydney: The Australian Museum, 1974.) 50c. [2520]

Suomalaisen Tiedeakatemia Toimituksia. Annales Academiae Scientiarum Fennicae. Ser. B, Tom 83: Neural Coding in the Temperature Sense: Human Reactions to Temperature Changes as Compared with Activity in Single Peripheral Cold Fibres in the Cat. By T. Jarvilehto. Pp. 71. (Helsinki: Suomalainen Tiedeakatemia, 1973.) [2810]

Science Research Council of Canada. Report No. 22: Science for Health Services. Pp. 140. (Ottawa: Information Canada, 1974.) \$2. [2810]

Smithsonian Contributions to Botany, No. 14: Commercial Timbers of West Africa. By Edward S. Ayensu and Albert Bentum. Pp. 69. (Washington, DC: Smithsonian Institution Press, 1974. For sale by US Government Printing Office.) \$1.65. [2810]

Australian Journal of Zoology. Supplementary Series No. 28: A Revision of the Australian and New Guinea Predatory Ceratopogonidae (Diptera: Nematocera) of the Tribes Heteromyiini and Sphaeromyiini. By Margaret L. Debenham. Pp. 92. No. 29: Comments on the Taxonomy of Australian Austroperilidae and Griptopterygidae (Plecoptera). Observations on the Adults and Eggs of Australian Plecoptera. By H. B. N. Hynes. Pp. 52. (East Melbourne: CSIRO, 372 Albert Street, 1974.) [2810]

World Health Organization. Public Health Papers No. 56: The Training and Utilisation of Fieldshers in the USSR. (A Review prepared by the Ministry of Health of the USSR for the WHO.) Pp. 52. (Geneva: WHO; London: HMSO, 1974.) Sw. fr. 5. [2910]

Induced Mutations for Disease Resistance in Crop Plants. (Proceedings of a Research Coordination Meeting organised by the Joint FAO/IAEA Division of Atomic Energy in Food and Agriculture and the Swedish International Development Authority (SIDA), and held in Novi Sad, June, 4–8 1973. Panel Proceedings Series.) Pp. 193. (Vienna: IAEA; London: HMSO, 1974.) 182 schillings; £4; \$10. [2910]

World Health Organization. Technical Report Series, No. 555: The Use of Mercury and Alternative Compounds as Seed Dressings—Report of a Joint FAO/WHO Meeting. Pp. 29. (Geneva: WHO; London: HMSO, 1974.) Sw. fr. 5. [2910]

Institut Royal Météorologique de Belgique. Publications Série B, No. 76: Persistence de la Direction Moyenne Horaire du Vent dans la Couche Limite Planétaire. Par L. M. Malet et H. Bultynck. Pp. 38. (Bruxelles: Institut Royal Météorologique de Belgique, 1974.) [3010]

Studia Forestalia Suecica. No. 116: A Study on the Temperature Response of Pollen Mother Cells in Norway Spruce. By Alena Jonsson. Pp. 32. No. 117: Microscopic Studies on the Degradation of Cellophane and Various Cellulosic Fibres by Wood-Attacking Microfungi. By Thomas Nilson. Pp. 32. No. 118: Seed Development After Self-Pollination and Cross-Pollination of Scots Pine, *Pinus sylvestris* L. By Christina Plym Forshell. Pp. 37. (Stockholm: Skogshögskolan, Royal College of Forestry, 1974.) [3110]