

## International Meetings

December 1-5, **Microbiology**, Panama (Octavio E. Sousa, Apartado 6403, Panama City, Panama).

December 1-5, **Operating Metallurgy**, Cleveland (Jack V. Richard, Metallurgical Society of Aime, 345 E 47th Street, New York, NY 10017, USA).

December 1-7, **Pediatrics**, Mexico (Dr Lazaro Benevides, Organizing Committee, c/o Hospital Infantil de Mexico, Calle Dr Marquez 162, Mexico 7, DF Mexico).

December 2-4, **Western National Geophysical Union meeting**, San Francisco (Dr J. C. Harrison, Department of Geophysical Sciences, University of Colorado, Boulder, Colorado 80302, USA).

December 2-6, **Engineering Materials and Design International Exhibition and Conference**, London (c/o Industrial Trade Fairs Ltd, Commonwealth House, 1-19 New Oxford Street, London WC1).

December 2-7, **Uses of Analogue and Digital Techniques**, Tucson (Dr J. W. Harshbarger, c/o University of Arizona, Tucson, Arizona 85721, USA).

December 3-5, **Foetal Autonomy**, London (CIBA Foundation, 41 Portland Place, London W1).

December 3-6, **Computers on Board Satellites**, Paris (Centre National d'Etudes Spatiales, 129 rue de l'Université, Paris 7, France).

December 4-6, **Wire and Cable**, Atlantic City (J. Spergel, US Army Electronics Command, Amsel-KI-EE, Fort Monmouth, NJO 07703, USA).

December 4-6, **Circuit Theory**, Miami Beach (Group on Circuit Theory, Institute of Electrical and Electronics Engineers, 345 E 47th Street, New York, NY 10017, USA).

December 6-7, **International Cartographic Association**, Dehra Dun (Dr S. P. Chatterjee, Indian National Committee for Geography, 1 Acharya Jadagish Bose Road, Calcutta 20, India).

December 9-11, **Computer Conference**, San Francisco (American Federation of Information Processing Societies 211 E 43rd Street, New York, NY 10017, USA).

December 12-14, **Nuclear Energy Conference**, Milan (Milan Federation of Scientific and Technical Associations, Piazzale Rodolfo Morandi 2, Milan, Italy).

December 12-17, **Phase Transformation**, Canberra (Professor G. D. Garland, International Union of Geodesy and Geophysics, c/o Geophysics Laboratory, University of Toronto, Toronto 5, Canada).

December 16-20, **Relativistic Astrophysics**, Dallas (Dr Ivor Robinson, South West Centre for Advanced Studies, PO Box 30365, Dallas, Texas 75230, USA).

December 18-20, **American Physical Society meeting**, San Diego (Professor W. Whaling, California Institute of Technology, 1201 East California Street, Pasadena, California 91109, USA).

December 26-31, 135th meeting of the **American Association for the Advancement of Science**, Dallas (Mrs Thelma C. Heatwole, Public Information for Annual Meeting, 5110 West Franklin Street, Virginia 23226, USA).

December 27-30, **Institute of Mathematical Statistics meeting**, Washington (Joan R. Rosenblatt, 337 Administration Building, Gaithersburg, NBS, Washington DC 20234, USA).

January 6-10, **Phase Transformations**, Canberra (Dr D. H. Green, c/o Department of Geophysics and Geochemistry, Australian National University, Canberra, Australia).

January 6-11, **Caribbean Chemical Conference**, Cave Hill, Barbados (Dr R. C. Russell, Chemistry Department, University of the West Indies, PO Box 64, Bridgetown, Barbados).

## FORTHCOMING EVENTS

(Meetings marked with an asterisk are open to the public)

## Monday, October 21

INSTITUTION OF ELECTRICAL ENGINEERS (at Savoy Place, London, WC2), at 10 a.m.—Colloquium on "Electrical Passenger Vehicles".

SOCIETY OF CHEMICAL INDUSTRY, PESTICIDES GROUP (at 14 Belgrave Square, London, SW1), at 5 p.m.—Dr N. G. Morgan: "Spray Application Efficiency in Fruit Crops".

BRITISH SOCIETY FOR THE HISTORY OF SCIENCE (in the Lecture Theatre of the Science Museum, Exhibition Road, London, SW7), at 5.30 p.m.—Dr Helen Wallis: "Thematic Maps—a New Cartographic Language".

INSTITUTION OF ELECTRICAL ENGINEERS, LONDON GRADUATE AND STUDENT SECTION (at Savoy Place, London, WC2), at 6.30 p.m.—Mr J. Miley: "Control of a Large Power System" (Chairman's Inaugural Address).

## Tuesday, October 22

INSTITUTION OF ELECTRICAL ENGINEERS (at Savoy Place, London, WC2), at 5.30 p.m.—Dr W. F. R. Gosling: "An Optical Beam Rider".

INSTITUTION OF MECHANICAL ENGINEERS, AUTOMOBILE DIVISION (at 1 Birdcage Walk, Westminster, London, SW1), at 6 p.m.—Two papers by Mr Maurice Platt and Professor A. C. Stevens (Lanchester Centenary).

SOCIETY OF CHEMICAL INDUSTRY, PLASTICS AND POLYMER GROUP (at 14 Belgrave Square, London, SW1), at 6 p.m.—Dr D. Lim: "Polymerization of some Methacrylic and Acrylic Monomers by Alkali Metal Compounds".

UNIVERSITY OF LONDON, DEPARTMENT OF EXTRA MURAL STUDIES; and the LINNEAN SOCIETY OF LONDON (at the Linnean Society, Burlington House, Piccadilly, London, W1), at 6.30 p.m.—The Earl of Cranbrook, CBE: "Exploration for Animals in the 19th and 20th Centuries". (Fourth of twelve lectures on "The Historical Background to Modern Zoology".)

INSTITUTION OF THE RUBBER INDUSTRY (at the Eccleston Hotel, Eccleston Square, London, SW1), at 7 p.m.—Mr M. Kaufman: "Training in the Rubber Industry".

## Wednesday, October 23

ROYAL INSTITUTION, HISTORY OF SCIENCE DISCUSSION GROUP (at 21 Albemarle Street, London, W1), at 1 p.m.—Miss A. K. O'Hara-May: "Early Studies of Quantification in Nutrition".\*

INSTITUTE OF NAVIGATION (at the Royal Geographical Society, 1 Kensington Gore, London, SW7), at 4.30 p.m.—Annual General Meeting followed by Professor A. Stratton: "The Science and Technology of Navigation" (Presidential Address).

INSTITUTION OF ELECTRICAL ENGINEERS (at Savoy Place, London, WC2), at 5.30 p.m.—Discussion meeting on "Electro-Optics" opened by Dr J. Bass and Dr K. F. Hulme.

INSTITUTION OF ELECTRICAL ENGINEERS (at Savoy Place, London, WC2) at 5.30 p.m.—Mr F. J. Lane, OBE: "Engineering Unlimited".

INSTITUTION OF ELECTRONIC AND RADIO ENGINEERS, EDUCATION GROUP (at 9 Bedford Square, London, WC1), at 6 p.m.—Mr Roy Cox: "Are Examinations Really Necessary?"

INSTITUTION OF MECHANICAL ENGINEERS (at 1 Birdcage Walk, Westminster, London, SW1), at 6 p.m.—Sir Arnold Lindley: "Becoming Wise after the Event" (Presidential Address).

SOCIETY OF ENVIRONMENTAL ENGINEERS, PACKAGING GROUP (in the Mechanical Engineering Department, Imperial College, London, SW7), at 6 p.m.—Mr C. F. Marshall: "Another Look at Fragility".

SOCIETY OF CHEMICAL INDUSTRY, FOOD ENGINEERING PANEL (at 14 Belgrave Square, London, SW1), at 6.15 p.m.—Mr C. Dodson and Mr A. Cunningham: "Uses of Plastics in Food Processing Plant".

## Thursday, October 24

INSTITUTION OF MECHANICAL ENGINEERS, MANUFACTURE AND MANAGEMENT GROUP (at 1 Birdcage Walk, Westminster, London, SW1)—All-day Discussion meeting on "The Utilization of Professional Engineering Manpower".

INSTITUTION OF ELECTRICAL ENGINEERS (at Savoy Place, London, WC2), at 2.30 p.m.—Colloquium on "Transmission-Line Properties of Interconnections and Their Measurement".

INSTITUTION OF ELECTRONIC AND RADIO ENGINEERS, JOINT IERE/IEE MEDICAL AND BIOLOGICAL ELECTRONICS GROUP (at 9 Bedford Square, London, WC1), at 2.30 p.m.—Colloquium on "Recent Advances in the Design of Biological Amplifiers".

INSTITUTION OF MECHANICAL ENGINEERS, NUCLEAR ENERGY GROUP (at 1 Birdcage Walk, Westminster, London, SW1), at 6 p.m.—Discussion meeting on "Power Station Control—is Automation the Preferred Solution?"

## Friday, October 25

ROYAL INSTITUTION, PHOTOCHEMISTRY DISCUSSION GROUP (at 21 Albemarle Street, London, W1), at 1 p.m.—Dr A. Kelly: "Some Model Systems for Photosynthesis".\*

SOCIETY OF CHEMICAL INDUSTRY, ROAD AND BUILDING MATERIALS GROUP (joint meeting with the Institution of Highway Engineers, at the Institution of Structural Engineers, Upper Belgrave Street, London, SW1), at 5.30 p.m.—Dr A. R. Lee: "Slag for Highways: Production, Properties and Uses".

ROYAL INSTITUTION (at 21 Albemarle Street, London, W1), at 9 p.m.—Surgeon Rear-Admiral Stanley Miles: "Human Factors in Underwater Research".

## Monday, October 28

INSTITUTION OF ELECTRICAL ENGINEERS (at Savoy Place, London, WC2), at 2.30 p.m.—Colloquium on "Solid State Displays".

INSTITUTION OF MECHANICAL ENGINEERS, RAILWAY ENGINEERING GROUP (at 1 Birdcage Walk, Westminster, London, SW1), at 6 p.m.—Discussion meeting on "Commissioning New Equipment".