

Notes and News

Announcements and other items of crystallographic interest will be published under this heading at the discretion of the Editorial Board. The notes (in duplicate) should be sent to the Executive Secretary of the International Union of Crystallography (J. N. King, International Union of Crystallography, 13 White Friars, Chester CH1 1NZ, England).

Molecular Structure and Dimensions

The International Union of Crystallography and the Cambridge Crystallographic Data Centre announce the publication of a new volume in this series, Volume 6, entitled *Bibliography 1973–74, Organic and Organometallic Crystal Structures*. This volume covers the literature till mid 1974 for the principal journals and contains references to over 2000 structure determinations. Entries are arranged in 86 chemical classes and cover organic compounds, complexes and organometallic compounds. The cumulative indexes, which go back to 1935, give references to a total of about 12000 entries.

The price of the new volume is 70 Netherlands guilders (about U.S. \$28 at current rates of exchange). Personal copies may be purchased at a reduced price of 50 Netherlands guilders (about \$20). Copies are available directly from Oosthoek, Scheltema & Holkema, Emmalaan 27, Utrecht, The Netherlands. Alternatively, orders may be placed with Polycrystal Book Service, P.O. Box 11567, Pittsburgh, Pennsylvania 15238, U.S.A. or with any bookseller. Standing orders may be placed direct with the publishers, which will ensure the earliest possible despatch of subsequent volumes when they are published. Orders may also be placed for the earlier bibliographic volumes and for the numerical data volume A1, *Interatomic Distances 1960–1965, Organic and Organometallic Crystal Structures*. A further numerical data volume for 1966–69 is in preparation.

Travel fellowships

COSTED, the Committee on Science and Technology in Developing Countries of the International Council of Scientific Unions, announces Travel Fellowships for

scientists from developing countries to attend scientific meetings in countries abroad. The travel fellowships will cover the round-trip fare only and will not cover maintenance or break-of-journey and other expenses incurred at the scientific meeting. 'Scientific meetings' include scientific conferences, symposia, projects and training programmes located in a country other than the candidate's own. The duration of the programme should not exceed three months.

Eligibility: Candidates applying for these fellowships should be less than 35 years of age and must be nationals of a developing country in one of the following regions: Mid-American Mainland, the Caribbean, Latin America, Africa, the Arab States, West Asia, South Asia, South East Asia, the Far East and Oceania. The candidate should already have received acceptance for participation at the scientific meeting

Applications: Candidates should apply to: The Scientific Secretary, COSTED Secretariat, Indian Institute of Science, Bangalore-560012, India. The application must include: (i) Biographical information. (ii) Academic particulars including research/industrial experience and present employment. (iii) Details of the scientific meeting and participation at the scientific meeting. (iv) Details of sources of support for covering expenses during the stay abroad. (v) Letters of assessment and recommendation from the convenor of the scientific meeting and from a senior scientist (of the home country) working in the candidate's field of specialization. (vi) An explanatory note (200 words) on the likely benefit to the candidate, with specific reference to the development of future research and development work to be carried out by him in the same field and its relevance to the country's development. Completed applications should be mailed so as to reach the COSTED Secretariat at least three months before the starting date of the proposed programme.

Book Reviews

Works intended for notice in this column should be sent direct to the Book-Review Editor (M.M. Woolfson, Physics Department, University of York, Heslington, York YO1 5DD, England). As far as practicable books will be reviewed in a country different from that of publication.

Low energy electron diffraction. The theory and its application to determination of surface structure.

By J. B. PENDRY. New York: Academic Press, 1974. Price: £8.60; £22.25.

The study of low-energy electron diffraction (LEED) started in 1927 with the historic experiments of Davisson and Germer and their demonstration of the wave nature of the electron. It continued quietly with the studies of Farnsworth who was able to complete a remarkable amount of experimental work before the appropriate ultra-high vacuum technology was widely available. In the early 1960's LEED activity expanded rapidly all over the world largely because of the commercial availability of the

appropriate apparatus and a widespread interest in the possibility of determining the atomic structure within the top few atomic monolayers of a solid. Although the strong scattering cross sections of atoms for low-energy electrons were widely appreciated at that time, the implications of strong scattering for the interpretation of LEED measurements were not. Disillusion set in rapidly and widely and very few people continued trying to understand the theoretical and experimental implications of both multiple scattering of electrons and the effects of inelastic excitations upon the elastic scattering intensities.

Dr Pendry has played an important role at this stage in the development of LEED by making significant contributions to the establishment of a theoretical framework and