

miniumarsenide layers could be assessed by using Lang topography and double-crystal rocking curves. Other materials studied were polyethylene, barium titanate, graphite and the Y-Si-O-N and Si-Al-O-N systems.

In the group of papers related to data analysis, Reid (Aberdeen) gave a very clear account of how temperature diffuse scattering arises and how it can be recognized. He gave calculations to show its variation with temperature and order of reflexion for the sodium chloride structure. Wilson (Birmingham) gave a physical interpretation of the various methods currently used for calculating the residual, R , for a structure. Gilmore (Glasgow) described the advantages of using quartets rather than triplets when solving structures with space group $P\bar{1}$ by direct methods. Lawrence (St. Andrews) described how to determine absolute structure factors when crystals large compared to the incident beam are available.

Murray-Rust (Stirling) gave the final paper in this most varied and stimulating conference. He suggested that, rather than use the classical scientific methods of developing a theory followed by collecting data to support it, crystallographers could well use sociological methods. This would entail extracting data already available, for instance from the Data File for organic compounds at Cambridge, searching for correlations and finally developing theories to account for the observations.

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Crystallographers

This section is intended to be a series of short paragraphs dealing with the activities of crystallographers, such as their changes of position, promotions, assumption of significant new duties, honours, etc. Items for inclusion, subject to the approval of the Editorial Board, 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).

Professor **Dorothy Hodgkin**, Wolfson Research Professor of the Royal Society and Immediate Past President of the International Union of Crystallography, has been elected President of the British Association for the Advancement of Science for the period of one year from September 1977.

Dr **S. Iijima** and Professor **J. M. Cowley**, both of Arizona State University, Tempe, U.S.A. have been named recipients of the Bertram E. Warren Award in diffraction physics, for the development of techniques for the direct imaging of crystal structure atom configurations through the use of high-resolution electron microscopy. This award is presented by the American Crystallographic Association under the sponsorship of IBM.

International Union of Crystallography Structure Reports

Volume 40A of *Structure Reports*, covering the literature for metals and inorganic compounds for 1974 (viii+342 pages), has recently been published at a price of 130 Netherlands guilders.

A 60-Year *Structure Index*, covering the period 1913-1973, has been compiled and is now being published. It is divided into two sections: Section A. *Metals and Inorganic Compounds*, and Section B. *Organic and Organometallic Compounds*. Either section may be purchased separately. The complete indexes have been prepared by computer and have been printed as computer-produced listings with upper and lower case letters. Section A contains a metals classified index, a metals structure-type index, an inorganic compounds index and a mineral name index, each of which includes names of materials, formulae and references. Section B contains an index based on a chemical classification (and lists name and formula), a formula index and a transition-metals index. Section A consists of $x + 229$ pages and costs 80 Netherlands guilders; Section B of $x + 437$ pages and costs 190 Netherlands guilders.

A separate cumulative index covering the whole published series of *Strukturbericht* (Volumes 1-7; 1913-1939) is also being published. It is a reorganized and expanded version of the original individual volume indexes. It makes information readily available on all the fundamental crystal structures which were determined in that period. It consists of $vi + 91$ pages of subject (English translation), formula and author indexes, and costs 50 Netherlands guilders.

Orders for any of these publications may be placed direct with the publisher, Bohn, Scheltema & Holkema (formerly Oosthoek, Scheltema & Holkema), Emmaalaan 27, Utrecht, The Netherlands, with Polycrystal Book Service, P.O. Box 11567, Pittsburgh, Pa. 15238, U.S.A. or with any bookseller.

Report of the Executive Committee for 1975

The Report of the Executive Committee for 1975 has been published in *Acta Crystallographica*, Section A [*Acta Cryst.* (1976), A32, 1019-1033]. It reports as usual on the meetings and publications of the Union, the work of its Commissions, and the work of bodies not belonging to the Union but on which the Union is represented.

Prices of *Acta Crystallographica* and *Journal of Applied Crystallography*

The Executive Committee of the International Union of Crystallography has found it necessary to increase the yearly subscription rates and also the prices of back numbers for *Acta Crystallographica* and *Journal of Applied Crystallography* as from 1 January 1977.

Acta Crystallographica

The following rates will apply for Volumes A33 and B33 (1977). All subscription rates are fixed in Danish kroner, and the U.S. dollar equivalents given below are subject to exchange-rate fluctuations.

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The reduced-rate subscriptions are ordinarily only available to members of recognized scientific societies, and applications must be accompanied by a written undertaking that the journal is for the personal use of the subscriber and will not be made available to libraries, institutions, etc. These conditions also apply to persons wishing to order back numbers at the reduced rates.