

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.

M. A. G. HALLIWELL

Post Office Research Centre  
Martlesham Heath  
Ipswich IP5 7RE  
England

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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.

#### *Complete volumes, regular price per volume*

Sections A & B (combined subscription)	D.kr. 1860	(\$310.00)
Section A only	D.kr. 465	(\$ 77.00)
Section B only	D.kr. 1565	(\$261.00)

#### *Complete volumes, reduced price for individuals*

Sections A & B (combined subscription)	D.kr. 770	(\$128.00)
Section A only	D.kr. 195	(\$ 32.00)
Section B only	D.kr. 650	(\$108.00)

All subscribers in the U.S.A. and Canada should add to the above subscription rates the additional charges for air-freighting as mentioned below.

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.

**Single parts**

The prices of single parts are as follows:

Vol. A33	D.kr. 115	(\$ 19.00)
Vol. B33	D.kr. 195	(\$ 32.00)

### *Journal of Applied Crystallography*

The following rates will apply for Volume 10 (1977). All subscription rates are fixed in Danish kroner, and the U.S. dollar equivalents given below are subject to exchange-rate fluctuations.

**Complete volumes,**

*regular price per volume*

D.kr. 425	(\$ 71.00)
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**Complete volumes,**

*reduced price for individuals*

D.kr. 210	(\$ 35.00)
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All subscribers in the U.S.A. and Canada should add to the above subscription rates the additional charge for air-freighting as mentioned below.

The same conditions apply to reduced-rate subscriptions as in the case of *Acta Crystallographica* (see below).

**Single parts**

The price for single parts of Volume 10 (1977) is D.kr. 105 (\$ 17.00).

### *Airfreighting of copies to the U.S.A and Canada*

Deliveries of *Acta Crystallographica* and *Journal of Applied Crystallography* to the U.S.A. and Canada in 1977 will continue to be air freight to New York and thence by second class mail. The use of this service is obligatory for all subscribers in those countries. The charges in Danish kroner remain the same as in previous years, and are as given below.

**Acta Crystallographica**

Sections A & B

(combined

subscription)	Add D.kr. 70	(\$ 12.00)
Section A only	Add D.kr. 20	(\$ 3.50)
Section B only	Add D.kr. 50	(\$ 8.50)

**Journal of Applied Crystallography**

Add D.kr. 20	(\$ 3.50)
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Since the charges are fixed in Danish kroner, the U.S. dollar equivalents are subject to exchange-rate fluctuations.

The prices of back numbers have been increased so that they are the same as the subscription rates for the volumes to be published in 1977. The prices of Volumes 1–23 of *Acta Crystallographica*, which were published before the journal was divided into two sections, have been increased to the same price as the A volumes. The prices are fixed in Danish Kroner and the U.S. dollar equivalents given below are subject to exchange-rate fluctuations.

### *Prices of back numbers*

**Acta Crystallographica**

*Complete volumes, regular price per volume*

Vols. 1–23	D.kr. 465	(\$ 77.00)
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Combined Vols.

24–32	D.kr. 1860	(\$310.00)
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Vols. A24–A32	D.kr. 465	(\$ 77.00)
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Vols. B24–B32	D.kr. 1565	(\$261.00)
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*Complete volumes, reduced price for individuals*

Vols. 1–23	D.kr. 195	(\$ 32.00)
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Combined Vols.

24–32	D.kr. 770	(\$128.00)
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Vols. A24–A32	D.kr. 195	(\$ 32.00)
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Vols. B24–B32	D.kr. 650	(\$108.00)
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**Single parts**

The prices of single parts are as follows:

Vols. A24–A32	D.kr. 115	(\$ 19.00)
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Vols. B24–B32	D.kr. 195	(\$ 32.00)
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Single parts of Volumes 1–23 are not available.

**Journal of Applied Crystallography**

*Complete volumes, regular price per volume*

Vols. 1–9	D.kr. 425	(\$ 71.00)
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*Complete volumes, reduced prices for individuals*

Vols. 1–9	D.kr. 210	(\$ 35.00)
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**Single parts**

The price of single parts is as follows:

Vols. 1–9	D.kr. 105	(\$ 17.00)
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### *Orders*

Orders of *Acta Crystallographica* and *Journal of Applied Crystallography* may be addressed to Munksgaard International Publishers Ltd., 35 Nørre Søgade, DK-1370 Copenhagen K, Denmark. Orders for complete volumes from subscribers in North America may alternatively be

placed through Polycrystal Book Service, P.O. Box 11576, Pittsburgh, Pa. 15238, U.S.A.

### *Index of Crystallographic Supplies*

The Commission on Crystallographic Apparatus of the International Union of Crystallography is preparing a Supplement to the Third Edition (1972) of the Index of Crystallographic Supplies. The Commission would appreciate receiving names and addresses of all manufacturers and suppliers not listed in the 1972 Index. *This information should be sent to Professor Reuben Rudman, Department of Chemistry, Adelphi University, Garden City, New York 11530, U.S.A.*

### **Book Reviews**

*Works intended for notice in this column should be sent direct to the Book-Review Editor (J. H. Robertson, School of Chemistry, University of Leeds, Leeds LS2 9JT, England). As far as practicable books will be reviewed in a country different from that of publication.*

**Количественный рентгенографический фазовый анализ.** *By Л. С. Зевин and Л. Л. Завьялова (Quantitative X-ray phase analysis. By L. S. Zevin and L. L. Zavyalova).* Pp. 184, Figs. 53, Tables 26+7 (in appendices). Moscow: Nedra, 1974. Price Rb 0-62.

This little book is a unique monograph on quantitative X-ray powder analysis. Up to now this has usually been dealt with as one of a number of topics in general handbooks on X-ray methods. The authors have succeeded in collecting a large amount of material spread throughout the literature and presenting it in a comparatively small space. The book is concise, many formulae are given without detailed explanation and the reader is expected to be familiar with the basic principles of X-ray crystallography.

In the first chapter general principles of the method are outlined with a detailed description of problems concerning the superposition of diffraction lines, the application of internal standards and the selection of the proper method of analysis. Chapter 2 deals with the technical details of powder diffractometers manufactured in the USSR and gives some practical instructions on alignment, checking and calibration procedures. New develop-