

International Union of Crystallography

Change of Editor of the *Journal of Applied Crystallography*

The Executive Committee of the International Union of Crystallography would like to announce that at the Eighth General Assembly of the Union, held in August 1969, Prof. A. Guinier (Orsay, France) was elected President of the Union for the term ending at the close of the Ninth General Assembly to be held in 1972. This has made it impossible for him to continue as Editor of the *Journal of Applied Crystallography* which he helped to launch and has led through the first two volumes.

As from 1 January 1970, the new Editor will be Prof. R. A. Young, School of Physics and Engineering Experiment Station, Georgia Institute of Technology, Atlanta, Georgia 30332, U.S.A., who is already on the *JAC* Editorial Board. Prof. Guinier will continue on the Board as a Co-editor.

Commission on Crystallographic Apparatus Single-Crystal Radiation Damage Survey

Changes in the integrated intensities of some single-crystal reflexions have been observed as a function of increasing exposure to X-rays. With certain crystals, substantial variation has been noted in the first few hours while a more common pattern is of relatively small intensity changes over longer exposure periods. The integrated intensity of a given reflexion may either increase or decrease or be subjected to a combination of effects with different time dependences as the radiation damage continues. As a result, major systematic error may enter both the diffractometer measurement of intensity and the values of structure factors derived without adequate attention to the functional effects of radiation damage.

The Commission on Crystallographic Apparatus plans to conduct a preliminary survey of the extent to which systematic changes in integrated intensity are caused by radia-

tion damage. All crystallographers making integrated intensity measurements with a diffractometer are cordially invited to take part in the survey. In order to encourage the widest possible participation, the experimental requirements of the survey are designed to be easily accommodated within normal crystal structure data collection procedures.

Participants will be invited to select a small group of reflexions, from a crystal of their choice (which may be one they are currently investigating), on the basis of relative magnitude and position in reciprocal space. The integrated intensities of this group are to be remeasured at periodic intervals throughout the duration of the experiment. It is expected that the participants' normal experimental time for crystal structure data collection will be increased only by a moderate amount on taking part in this survey. An indication of the sensitivity of various categories of chemical composition to radiation damage is likely to be among the results of this survey, which will be disseminated as soon as possible after its completion.

Details of the experimental information to be supplied by participants may be obtained from Commission member: Dr S. C. Abrahams, Bell Telephone Laboratories, Inc., Murray Hill, N.J. 07974, U.S.A.

Index of Crystallographic Supplies

The Commission on Crystallographic Apparatus plan to publish a new edition of the *Index of Crystallographic Supplies*. The readers of this Journal are urged to assist in the preparation of the *Index* by supplying us with the names and addresses of manufacturers and distributors of instruments and accessories used in X-ray diffraction studies. We are most interested in obtaining information regarding small, relatively unknown manufacturers of specialized accessories, in particular, those located outside the U.S.A. Please send all information to: Dr Reuben Rudman, Chemistry Department, Adelphi University, Garden City, New York 11530, U.S.A.

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, 13 White Friars, Chester CH1 1NZ, England). Publication of an item in a particular issue cannot be guaranteed unless the draft is received 8 weeks before the date of publication.

Third International Liquid Crystal Conference Berlin, B.R.D., 24-28 August 1970

The Third International Liquid Crystal Conference will be held in Berlin, Federal Republic of Germany, 24-28 August 1970. The Chairman of the Organizing Committee and of the Conference is Dr R. Hosemann, Fritz-Haber-Institut

der Max-Planck-Gesellschaft, Faradayweg 4-6, 1 Berlin 33 (Dahlem), B.R.D. The latest date for registration and submission of papers is 1 May 1970. Papers should be sent to:

Dr Glenn H. Brown
Liquid Crystal Institute
Kent State University
Kent, Ohio 44240, U.S.A.

International Union of Crystallography Eighth International Congress: Abstracts

The communicated abstracts of the Congress, including Topical Meetings, have already been published in May 1969 as a 295-page supplement, part S3, of *Acta Crystallographica* Volume A25. This supplement is available at a price of D.kr. 75 (U.S. \$10.00, £4.4s.) from Munksgaard Limited, Prags Boulevard 47, DK-2300 Copenhagen S, Denmark.

Differing only in the outer covers and title pages, the abstracts are also available under the title *Collected Abstracts*, as provided to all Congress participants. This volume is available at a price of U.S. \$10.00 from the Polycrystal Book Service, P.O. Box 11567, Pittsburgh, Pennsylvania 15238, U.S.A.

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Early Papers on Diffraction of X-rays by Crystals

The Executive Committee of the International Union of Crystallography has pleasure in announcing the publication in August 1969 of *Early Papers on Diffraction of X-rays by Crystals*, edited by J. M. Bijvoet, W. G. Burgers and G. Hägg. This book contains xvi + 372 pages, 93 figures and 8 plates. It has been published for the Union by A. Oosthoek's Uitg. Mij N.V., Domstraat 9-13, Utrecht, Netherlands, from whom it can be obtained at a price of 48 Netherlands Guilders (U.S. \$13.50 or £5.14s. at the present rates of exchange). It is also obtainable from Polycrystal Book Service, P.O. Box 11567, Pittsburgh, Pennsylvania 15238, U.S.A. or from any bookseller.

The volume contains extracts from more than 80 of the most important early papers on X-ray crystallography, arranged in such a way as both to form a history of the science and to serve as a teaching aid. The papers span the period 1912-1934. The five chapters are entitled: *The discovery of X-ray diffraction by crystals, interpretations and some of the first structure determinations; The reciprocal lattice; The intensity factors of the kinematical theory; The dynamical theory; The f-factor continued, extinction, anomalous scattering.* A second volume covering the development of X-ray crystallography in the 'trial-and-error' period and the (re)birth of the Fourier method is planned.

Erratum: On page 141 of *Early Papers* the reference to paper 38 should read:

$$\text{The white Lorentz-factor } 1/\sin^2 \theta$$

instead of $1/\sin \theta$.

Second International Symposium on Organic Solid-state Chemistry Rehovot, Israel, 14-18 September 1970

The Second International Symposium on Organic Solid-State Chemistry, co-sponsored by the International Union of Crystallography and the International Union of Pure and Applied Chemistry, will be held at the Weizmann Institute of Science, 14-18 September 1970. Topics to be emphasized are: simple reactions in organic solids with pertinent background material (structure, defects, etc.); inter- and intra-molecular energy transfer; spectroscopy of molecular solids.

Those interested in additional information should contact the organizing secretary: Prof. M. D. Cohen, Weizmann Institute of Science, Rehovot, Israel.

Chemical Crystallography, 1928-1970 and beyond

J. Monteath Robertson is to retire, in September 1970, from his Gardiner Professorship in the University of Glasgow, and from the Directorship of the Chemical Laboratories. An international Symposium on Chemical Crystallography will be held in his honour at Glasgow on 9-10 September 1970.

In conjunction with this Symposium, the Chemical Society's Chemical Crystallography Group, and the X-ray Analysis Group of the Institute of Physics and the Physical Society, will arrange a Meeting on 8 September, its theme being *Molecular Interactions in Crystals*.

Further information and registration forms may be obtained from Dr J. F. Gibson (The Chemical Society, Burlington House, Piccadilly, London W1V 0BN, England) Limited accommodation will be available in a Hall of Residence. Those wishing to participate should complete the preliminary registration form and return it before 30 April.

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.

The American Mineralogical Journal. Archibald Bruce, M.D. *Contributions to the history of geology.* Vol. 1. Edited by GEORGE W. WHITE. Pp. xvii + 270. New York: Hafner, 1968. Price U.S. \$ 18.00.

This facsimile of the 1814 edition of the short-lived *American Mineralogical Journal* will provide interesting reading for historians of geology and mineralogy. The simple, narrative style of many of the contributors gives us delightful

accounts of pioneers of American geology in the early nineteenth century, at the same time preserving the thrill of their discoveries. This aspect of the journal should make Volume I of this series of interest not only to professional historians of the natural sciences, but to many amateur collectors on both sides of the Atlantic.

Consultation of the list of contributors to the journal reveals notable geologists and mineralogists from Europe and America. As Professor John C. Greene points out in his