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Acta Cryst. (1981). A37, 943

Election of Officers of the Union and Chairmen of Commissions

Dr J. Karle was elected President of the International Union of Crystallography at the Twelfth General Assembly of the Union, which was held in Ottawa in August. The full membership of the Executive Committee of the Union until mid 1984 is as follows: President – Dr J. Karle, Vice-President – Dr S. Ramaseshan, General Secretary and Treasurer – Professor K. V. J. Kurki-Suonio, Immediate

Past President – Professor N. Kato, Ordinary Members – Professor S. Amelinckx, Professor Th. Hahn, Professor M. Nardelli, Professor H. Neels, Dr V. I. Simonov, Professor M. M. Woolfson.

Dr S. C. Abrahams was reappointed Editor of *Acta Crystallographica* and Chairman of the Commission on Journals, Professor M. Hart was reappointed Editor of the *Journal of Applied Crystallography* and Co-Chairman of the Commission on Journals. Professor M. Nardelli and Professor R. Norrestam were appointed as Co-editors of *Acta Crystallographica* and Professor G. Allegra and Dr S. Jagner have retired. Professor G. Ferguson was appointed as Editor of *Structure Reports*, succeeding Professor J. Trotter who has retired as Editor of this publication. Professor M. G. Rossman was elected Chairman of the new Commission on Biological-Macromolecule Crystallography, Dr M. J. Cooper was elected Chairman of the Commission on Charge, Spin and Momentum Densities, Dr E. Kaldis was re-elected Chairman of the Commission on Crystal Growth and Characterization of Materials (formerly the Commission on Crystal Growth), Professor S. Abrahamsson was re-elected Chairman of the Commission on Crystallographic Apparatus, Dr S. R. Hall was elected Chairman of the Commission on Crystallographic Computing, Dr I. D. Brown was elected Chairman of the Commission on Crystallographic Data, Dr S. C. Abrahams continues as Chairman of the Commission on Crystallographic Nomenclature as a result of his reappointment of Chairman of the Commission on Journals, Dr B. Buras was elected Chairman of the Commission on Crystallographic Studies at Controlled Pressures and Temperatures, Professor P. Krishna was elected Chairman of the Commission on Crystallographic Teaching, Dr P. Goodman was elected Chairman of the Commission on Electron Diffraction and Dr M. S. Lehmann was elected Chairman of the Commission on Neutron Diffraction.

The full membership of the Commissions of the Union, and the Union representatives on other bodies, will be given in the report of the Twelfth General Assembly and International Congress of Crystallography, which will be published in Section A of *Acta Crystallographica* in due course.

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World Directory of Crystallographers**Sixth Edition**

The Sixth Edition of the *World Directory of Crystallographers and of Other Scientists Employing Crystallographic Methods*, General Editor A. L. Bednowitz, has just been published on behalf of the International Union of Crystallography by D. Reidel Publishing Company, PO Box 17, 3300 AA Dordrecht, The Netherlands and 160 Old Derby Street, Hingham, MA 02043, USA, from whom copies may be ordered direct at a price of US\$10 (25 Netherlands Guilders) post free. It contains short biographical data on over 8100 scientists from 68 countries. The biographical data include full name and title, address, year of birth, highest degree,

field of study, university and year of highest degree, present position, telephone number and major scientific interests. There is also a comprehensive name index.

For those crystallographers whose names have not been included in the Sixth Edition and for any whose entries

contain errors, Data Entry forms for the Seventh Edition are available from Dr Allan L. Bednowitz, General Editor, IUCr World Directory of Crystallographers, c/o IBM T. J. Watson Research Center, PO Box 218, Yorktown Heights, NY 10598, USA.

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.

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Дифракционный и резонансный структурный анализ. Г. С. ЖДАНОВ, А. С. ИЛЮШИН И С. В. НИКИТИНА (**Diffraction and resonance analysis.** By G. S. ZHDANOV, A. S. ILYUSHIN and S. V. NIKITINA.) Pp. 250. Moscow: Nauka, 1980. Price 80 k.

As mentioned in the preface by Zhdanov, editor of this book, this work is intended for students of physics and for research workers for whom structure analysis is not their major speciality. The book consists of two parts: the first eight chapters deal with diffraction methods, while the remaining five chapters are concerned with nuclear gamma resonance (NGR).

The first part begins with a brief formulation of the main problems of structure analysis, which is followed by a consideration of Fourier transforms, the interference function of a crystal, symmetry and extinction conditions and, finally, the scattering of X-rays by atoms and crystals.

The book elucidates experimental methods and gives a description of some apparatus, mainly of Soviet instrumentation. In a survey of structural investigations, which is, by necessity, brief, the authors touch on such problems as scattering by ageing alloys, phase analysis including phase transitions, X-ray dilatometry, and transformations at high temperatures and pressures. The actual determination of atomic structure is not touched upon. The exposition is concerned, in the main, with X-ray diffraction, and only the ideal crystal is considered, as in the Bragg case, this being done in the old-fashioned Darwin style.

The second part of the book is a brief exposition of the principles of the theory of nuclear gamma resonance, and of the experimental methods and parameters and the standardization of spectra associated with the Mössbauer effect.

Of special interest are chapters XI and XII, which are devoted to NGR spectroscopy and diffraction. The author (Nikitina) considers these effects as a possible means for the investigation of crystal structure, always having in mind such problems as a determination of the value and orientation of electric and magnetic fields, and the magnetic and electric structure of crystals. Mention is also made of phase composition, coordination of atoms and some other parameters of the crystalline medium.

For the time being, the reviewer does not share the authors' optimism about the creation of Mössbauer diffraction, in particular, as applied to supercomplex structures.

The book under review can be recommended as a useful textbook, which is a rather general, although brief, exposition of the problems touched on in the text.

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Books Received

The following books have been received by the Editor. Brief and generally uncritical notices are given of works of marginal crystallographic interest; occasionally a book of fundamental interest is included under this heading because of difficulty in finding a suitable reviewer without great delay.

Landolt-Börnstein. Numerical data and functional relationships in science and technology. Group III. Crystal and solid state physics. Vol. 7. Crystal structure data of inorganic compounds. Part d2. By A. PIES and A. WEISS. Key elements: B, Al, Ga, In, Tl, Be. Substances Nos *d*7000 to *d*8399. Pp. xxv + 327. Berlin: Springer-Verlag, 1980. Price DM 425.00, US\$250.80. The companion part, part *d*, containing data of substances *d*1 to *d*6999, is expected during 1981.

Direct methods in crystallography. By CARMELO GIACOVAZZO. Pp. xv + 432. London and New York: Academic Press, 1980. Price £37.80, US \$87.00. A review of this book, by Paul T. Beurskens, has been published in the September 1981 issue of *Acta Crystallographica*, Section B, page 1801.