

variations of structural changes under various conditions, he directed his students to observe the motion of domains in ferroelectric crystals under an applied electric field. When he turned his scientific interests to the study of thin films and surfaces, he also put emphasis on the importance of *in situ* observations which led him with great success to see the growth process of thin films on various crystalline substrates. In fact he pioneered the field on UHV electron microscopy and surface studies and the work he has performed in this field is undoubtedly valued as absolutely outstanding. As conveyed in a letter to Mrs Honjo from Dr C. J. Humphreys, 'his death is a great loss to our field but his life has really been one in which he pioneered and led the world in various important aspects of electron diffraction and electron microscopy'.

In his group he trained many fine young scientists who are now leading figures in the field of diffraction crystallography in Japan. He will long be remembered by his students not only for his scientific guidance but also for his openness and personal warmth.

Goro Honjo played a leading role in many scientific societies: Japanese Association of Crystal Growth and The Japanese Society of Electron Microscopy. In particular, he performed an excellent job as a former Chairman of the Commission on Electron Diffraction of the International Union of Crystallography for a period of six years and President of the Crystallographic Society of Japan. He was also for some time a member of the Japan National Committee for Crystallography.

J. HARADA

Professor **T. L. Blundell**, Head of the Department of Crystallography, Birkbeck College, University of London, has been awarded the CIBA Medal and Prize for 1987. During the past 20 years Professor Blundell has been concerned with the development of protein crystallography. Over the past decade he has been concerned with using known structures to provide a basis for the determination of tertiary structure from amino acid and DNA sequences. He is now involved, with others at Birkbeck College, in the development of a relational database of protein tertiary structure for use in protein prediction and protein engineering.

Dr **Alan Kenneth Head**, Acting Head of the Division of Material Science and Technology, CSIRO, Australia, has been elected a Fellow of the Royal Society, in recognition of his contribution to the understanding of dislocations of crystals, especially near surfaces and under con-

ditions of crystal anisotropy. He pioneered the computer simulation of dislocation images in the electron microscope, which has led to the identification of many types of such defects in engineering materials.

Sir **Peter Hirsch**, Isaac Wolfson Professor of Metallurgy at the University of Oxford, has been awarded the 1988 Holweck Medal and Prize of The Institute of Physics and the French Physical Society. His general research interests are the electron microscopy of defects in crystalline solids, and the relation between structural defects and physical properties of materials. Currently he has been working with Dr S. G. Roberts on a theory to explain quantitatively the ductile-brittle transition of intrinsically brittle materials. He is also concerned with developing an understanding of the plastic deformation processes which occur in an indentation in single crystals, and the mechanisms responsible for hardness anisotropy. Other interests include the effect of doping on mechanical properties of covalently bonded solids, and the observation of dislocations at surfaces by diffraction channelling contrast in a scanning electron microscope.

Dr **P. Horn**, Acting Director of the Physics Sciences Department, IBM Research Division, Thomas J. Watson Research Center, Yorktown Heights, NY, USA, and Professor **R. Birgeneau**, Cecil and Ida Green Professor of Physics at the Department of Physics, MIT, Cambridge, MA, USA, are the joint recipients of the 1988 Bertram Eugene Warren Diffraction Physics Award in recognition of their many contributions in the field of solid-state physics including studies of surface physics, inhomogeneous superconductivity, organic conductivity and charge-density-wave phenomena, magnetic critical phenomena, the structure of quasicrystals and high-temperature superconductivity.

Professor **G. A. Jeffrey**, Department of Crystallography, University of Pittsburgh, Pittsburgh, PA 15260, USA, will receive the Martin J. Buerger Award in recognition of his outstanding crystallographic studies of clathrates and carbohydrates by the use of both X-ray and neutron diffraction techniques and the many contributions he has made to the crystallographic community.

Dr **Alan Lindsay Mackay**, Reader in Crystallography at Birkbeck College, London, England, has been elected a Fellow of the Royal Society, in recognition of his contributions to crystal-

lography. He correctly predicted the occurrence of fivefold symmetry in nature, and is a leading authority on the geometry and symmetry of crystalline and quasicrystalline materials.

Professor **John Wickham Steeds**, Professor of Physics at the University of Bristol, England, has been elected a Fellow of the Royal Society, in recognition of his wide-ranging investigations of the microstructure of materials by means of electron microscopy and convergent-beam electron diffraction. His work on dislocation arrangements, solitons and precipitates has had significant applications to steels and other materials.

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, 5 Abbey Square, Chester CH1 2HU, England)

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Synchrotron Radiation News

A new magazine with this title has just been published by Gordon and Breach. Volume 1, which will comprise six bimonthly issues, is being distributed free of charge to over 5000 synchrotron users worldwide. The editorial to the first issue states that the backbone of the coverage will be provided by correspondents at each facility who will report regularly on local developments. In addition, issues will include articles ranging from teaching and historical articles to conference reports, book reviews, a calendar of events, and a letters and comments section.

Sample copies of Volume 1 and subscription details for Volume 2 may be obtained from the Editorial Office, Gordon and Breach Science Publishers SA, PO Box 401, 2130 AK Hoofddorp, The Netherlands.

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Computer program for calculation of interface structures

A computer program is now available for calculation of interface structures, based upon methods contained in the book by W. Bollman: *Crystal Lattices, Interfaces, Matrices*. The book was reviewed in *J. Appl. Cryst.* (1984), **17**, 123-124 and is an introduction to the mathematical methods for dealing with practical problems in crystallography, especially the structure of interfaces in crystals. The author has now released a set of computer programs, written in Basic for the