

Wolff, all from the Netherlands. The three were cited for 'their contributions to the theory and practice of modulated structure analysis'. Unfortunately, de Wolff was too ill to attend the award ceremony, and died some days after receiving the medal at his home in Delft (see Obituary, in this issue, by Janssen & Tuinstra [*J. Appl. Cryst.* (1998). **31**, 829–830]). He was a professor emeritus at the Technical University of Delft. Janner is a professor emeritus and Janssen is a professor at the Institute for Theoretical Physics at the University of Nijmegen.

Eleanor Dodson, University of York, England, was presented with the Fankuchen Memorial Award at the ACA meeting in Arlington, Virginia, in July. This award, given every three years, recognizes contributions to crystallography by individuals known to be effective teachers. Dodson has been selected for 'developing and implementing major computational techniques for macromolecular crystallography and for teaching countless students how to use the resultant programs'. Dodson helped develop the CCP4 suite of programs that is widely used for macromolecular crystallography, and she actively teaches protein crystallographers through the CCP4 bulletin board as well as at many schools and workshops.

Dr Herbert Göbel, of Siemens AG, München, Germany, has received the J. D. Hanawalt Award for excellence in the field of X-ray powder diffraction. The J. D. Hanawalt Award is presented every three years for important, recent contributions to the field of X-ray powder diffraction, and consists of a citation and a cash gift of \$1000. The award was presented at the 47th Annual Denver X-ray Conference in Colorado Springs, CO, USA.

Dr Frank C. Hawthorne, University of Manitoba, was presented with the Rh Institute Foundation Award at the Fall 1997 Convocation of the University of Manitoba. This award recognizes outstanding research accomplishments of a University of Manitoba Faculty Member, and was awarded for the first time this year.

Robert M. Hazen, Carnegie Institute of Washington and George Mason University, has received the 1998 Elizabeth Wood Science Writing Award. This was presented at the ACA meeting in Arlington, Virginia.

New Commercial Products

Announcements of new commercial products are published by the Journal of Applied Crystallography free of charge. The descriptions, up to 300 words or the equivalent if a figure is included, should give the price and manufacturer's full address. Full or partial inclusion is subject to the Editor's approval and to the space available. All correspondence should be sent to the Editor, Professor A. M. Glazer, Editor Journal of Applied Crystallography, Clarendon Laboratory, University of Oxford, Parks Road, Oxford OX1 3PU, England.

The International Union of Crystallography can assume no responsibility for the accuracy of the claims made. A copy of the version sent to the printer is sent to the company concerned.

J. Appl. Cryst. (1998). **31**, 974

New Books on Ceramics

The American Ceramic Society (ACerS) offers **new books on ceramics**. Topics include advances in dielectric ceramic material; glazes and glass coatings; phase diagrams; ceramic processing; electrochemistry of glass and ceramics; advances in fusion and processing of glass and much more. ACerS is an international association of scientists, engineers and industrialists who are active in the creation of new products, applications and research regarding ceramics and related materials. ACerS serves more than 10 000 members and subscribers in 80 countries with periodicals and books, meetings and exhibitions, continuing education courses and on-line technical information.

American Ceramic Society, PO Box 6136, Westerville, OH 43086-6136, USA (e-mail: customersvc@acers.org)

J. Appl. Cryst. (1998). **31**, 974

Cryo Cooler for X-ray Crystallography

The CRYO Industries nitrogen gas stream **Cryo Cooler for X-ray Crystallography** provides a continuous cold nitrogen gas stream with a base temperature of 80 K. Flow on/off and rate are set by simple push button. The flow controller provides four 'memorized' gas flow rates. These preset flow rates are user adjustable. It is simple to operate: press the desired flow rate button and the flow starts and sets instantly and automatically. The gas stream temperature is set with a true PID cryogenic temperature controller. A feedback loop heat exchanger with

platinum temperature sensor is built into the tip of the cooler. Optional CRYO Auto Control computer software is available. Liquid nitrogen rates are automatically controlled. Refill does not disturb the temperature of the sample. Liquid nitrogen level status is always known because readout is continuous. It is designed for use with protein crystals and on area detector systems. Presets can optimize the system for push button operation in the popular 80, 100, 150 and 275 K regimes. The cold gas stream cools the sample while a warm outer flow eliminates sample icing.

Details: operating range of 80–325 K; low liquid nitrogen consumption flow rates of 0.5 l h⁻¹ at 85 K and 0.75 l h⁻¹ at 80 K (lower at higher temperatures); better than 0.1 K stability; push button electronic flow with adjustable repeatable presets; refill while holding set temperature; complete system including LN2 dewar, level indicator, auto fill, flow control, PID temperature controller, shield flow, transfer line; optional computer interface.

CRYO Industries of America, Inc., 11 Industrial Way, Atkinson, NH 03811, USA (e-mail: cryo@cryoindustries.com)

International Union of Crystallography

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Prices of IUCr journals

The Executive Committee of the International Union of Crystallography is pleased to announce that there will be a 5% discount on the prices of the individual sections for subscribers taking out combined subscriptions to Sections A+B+C+D and Sections A+B+C of *Acta Crystallographica*. Individuals may also take out a subscription to Sections A+B+D at a discount of 5%. For other combinations of journals offering discounts of between 5 and 30% see *Special packages*.

The Executive Committee has determined the following subscription rates and prices of back numbers for *Acta Crystallographica*, *Journal of Applied Crystallography* and *Journal of Synchrotron Radiation* as from 1 January 1999.

Prices are given in US dollars (USD) and subscribers may take out a two-year subscription at the 1999 rates. **All prices are inclusive of postage (airfreight).**

Acta Crystallographica (see also Special packages)

The following rates will apply for Volumes A55, B55, C55 and D55 (1999). All subscription rates are fixed in USD.

Complete volumes, regular price per volume

	USD (1999)	USD (1999 & 2000)
Sections A, B, C & D (combined subscription)	2590	5180
Sections A, B & C (combined subscription)	2035	4070
Section A only	445	890
Section B only	455	910
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Section D only	580	1160

Complete volumes, reduced price per volume for individuals

	USD (1999)	USD (1999 & 2000)
Sections A, B, C & D (combined subscription)	785	1570
Sections A, B & C (combined subscription)	620	1240
Sections A, B & D (combined subscription)	420	840
Section A only	135	270
Section B only	140	280
Section C only	380	760
Section D only	170	340

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

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Journal of Applied Crystallography (see also Special packages)

The following rates will apply for Volume 32 (1999). All subscription rates are fixed in USD.

	USD (1999)	USD (1999 & 2000)
Complete volumes, regular price per volume	440	880
Complete volumes, reduced price per volume for individuals	130	260

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

Single parts

The price of single parts of Volume 32 (1999) is USD 105.

Journal of Synchrotron Radiation (see also Special packages)

The following rates will apply for Volume 6 (1999). All subscription rates are fixed in USD.

	USD (1999)	USD (1999 & 2000)
Complete volumes, regular price per volume	660	1320
Complete volumes, reduced price per volume for individuals	175	350

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The price of single parts of Volume 6 (1999) is USD 120.

Special packages

A discount of 30% is available for the following combined subscription.

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Regular price	770	1540
Reduced price for individuals	215	430

A discount of 5% is available for the following combined subscriptions.

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	USD (1999)	USD (1999 & 2000)
Regular price	3635	7270
Reduced price for individuals	1075	2150

Section D of *Acta Crystallographica* & *Journal of Applied Crystallography*

	USD (1999)	USD (1999 & 2000)
Regular price	970	1940
Reduced price for individuals	285	570

Section D of *Acta Crystallographica* & *Journal of Applied Crystallography* & *Journal of Synchrotron Radiation*

	USD (1999)	USD (1999 & 2000)
Regular price	1595	3190
Reduced price for individuals	450	900

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All these prices are fixed in USD.

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Combined Vols. 39–54	USD 2590
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Vols. C39–C54	USD 1245
Vols. D49–D54	USD 580

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Combined Vols. 24–38	USD 460
Combined Vols. 39–54	USD 785
Vols. A24–A54	USD 135
Vols. B24–B38	USD 360
Vols. B39–B54	USD 140
Vols. C39–C54	USD 380
Vols. D49–D54	USD 170

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Single parts of Volumes 1–23 are not available. The price of single parts of

any section of other volumes is USD 105.

Cumulative Indexes, regular price

Vols. 11–23 (1958–1967)	USD 30
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Journal of Applied Crystallography

Complete volumes, regular price per volume

Vols. 1–31	USD 440
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Complete volumes, reduced price per volume for individuals

Vols. 1–31	USD 130
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Single parts

The price of single parts of any volume is USD 105.

Cumulative Indexes for Vols. 1–20 (1968–1987)

<i>Regular price</i>	USD 40
<i>Reduced price for individuals</i>	USD 20

Journal of Synchrotron Radiation

Complete volumes, regular price per volume

Vols. 1/2–5	USD 660
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Complete volumes, reduced price per volume for individuals

Vols. 1/2–5	USD 175
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Single parts

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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.

J. Appl. Cryst. (1998). **31**, 976

Defect recognition and image processing in semiconductors 1997

Institute of Physics Conference Series, No. 160. Edited by J. DONECKER and I. RECHENBERG. Pp. xx + 524. Bristol and Philadelphia: Institute of Physics Publishing, 1998. Price £135, US \$270. ISBN 0 7503 0500 2. The book is

number 160 in the Institute of Physics Conference Series. It contains the refereed collected proceedings of the Seventh International Conference on the title topic (DRIP VII), held in Templin, Germany, 7–10 September 1997. DRIP conferences 'consider defects from the atomic scale up to inhomogeneities in complete wafers from the experimental point of view'.

Ternary and multinary compounds

Institute of Physics Conference Series, No. 152. Edited by R. D. TOMLINSON, A. E. HILL and R. D. PILKINGTON. Pp. xxiv + 1036. Bristol and Philadelphia: Institute of Physics Publishing, 1998. Price £200, US \$399. ISBN 0 7503 0438 3. This volume contains the refereed papers presented at the 11th International Conference on Ternary and Multinary Compounds (ICTMC 11) held at the University of Salford, UK, in September 1997.

Simulations for solid state physics.

An interactive teaching resource for students and teachers.

Edited by ROBERT H. SILSBEE and JÖRG DRÄGER. Pp. xvii + 348 + CD-ROM. Cambridge: Cambridge University Press, 1997. Price £60.00, US \$80.00. ISBN 0-521-59094-9. A review of this book, by Robert Bryan, has been published in the July 1998 issue of *Acta Crystallographica Section A*, page 516.

X-ray charge densities and chemical bonding.

By PHILIP COPPENS. Pp. xiii + 358. Oxford: International Union of Crystallography/Oxford University Press, 1997. Price US \$85.00. ISBN 0-19-509823-4. A review of this book, by Tibor Koritsansky, has been published in the September 1998 issue of *Acta Crystallographica Section A*, page 686.