

Crystallography. The recipients to date are as follows:

Year	Place	Recipients
1987	Perth, Australia	Professor J. M. Cowley and Dr A. F. Moodie
1990	Bordeaux, France	Professor B. K. Vainshtein
1993	Beijing, China	Professor N. Kato

The fourth Prize, for which nominations are now being invited, will be presented at the XVII Congress in Seattle, Washington, USA, in August 1996.

Scientists who have made contributions of exceptional distinction to the science of crystallography are eligible for the Ewald Prize, irrespective of nationality, age or experience. The Selection Committee will give careful attention to the nominations of outstanding scientists who have not yet won a major prize. Either an exceptionally distinguished scientific career or a major scientific accomplishment may be recognized. Current members of the Selection Committee and the President of the IUCr are not eligible. No restrictions are placed on the time or the means of publication of the nominee's contributions. The Prize may be shared by more than one contributor, but not more than three, to the same scientific achievement.

Nominations for the Ewald Prize should be submitted in writing, preferably using the Ewald Prize Nomination Form and accompanied by supporting documentation, to the Executive Secretary of the International Union of Crystallography, 2 Abbey Square, Chester CH1 2HU, England, from whom copies of the Nomination Form and the names of the Selection Committee may be obtained. **The closing date for nominations is 31 August 1995.**

P. COPPENS  
President

A. I. HORDVIK  
General Secretary

## Notes and News

*J. Appl. Cryst.* (1995). **28**, 67

### ECM16: Oxford Cryosystems Award

During ECM16 in Lund, Sweden, 6–11 August 1995, Oxford Cryosystems will be awarding a prize of £250 for the best poster describing low-temperature crystallography. The award will be made either for a description of low-temperature equipment or for any research in which low temperatures are a major feature. Judges will be selected by the Organizing Committee of ECM16 and the prize

will be presented during the conference banquet.

## 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 the 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, Dr 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.*

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### Zinc Germanium Phosphide for IR Generation between 2.6 and 11 $\mu\text{m}$

INRAD announces that it has developed **zinc germanium phosphide (ZPG)** having improved transmission characteristics in the near-IR, making it an excellent choice for generating tuneable IR with a near-IR pump. This nonlinear crystal was first introduced by INRAD at the CLEO 93 trade show and was made available to customers on a limited basis.

ZPG has a nonlinear coefficient ( $75 \text{ pm V}^{-1}$ ) more than twice that of silver gallium selenide ( $\text{AgGaSe}_2$ ) and has a much higher thermal conductivity ( $0.18 \text{ W cm K}^{-1}$ ), which is important for generating high average power. It is transmissive from 0.67 to 13  $\mu\text{m}$ , a wavelength region that is vitally important as the 'fingerprint' region for molecular species. ZPG has been demonstrated as the frequency converter in an OPO configuration, which opens the door to applications in remote sensing and countermeasures.

INRAD manufactures crystals, laser components, optical coatings, laser systems and instruments for scientific, defense, aerospace and industrial markets.

*INRAD, Legrand Avenue, Northvale, NJ 07647, USA.*

*J. Appl. Cryst.* (1995). **28**, 67

### −80°C Immersion Cooling

The new CFC-free mechanically refrigerated LFC80 Flexi-Cool coil-style probe provides up to 550 W of heat removal capacity while maintaining an alcohol bath temperature at −80°C. A microprocessor temperature controller permits the user to set and maintain bath temperature to 0.1°C between 0 and −80°C. The stainless steel coil probe configuration ensures maximum temperature uniformity within

the bath and makes the coil an ideal replacement for CO<sub>2</sub> or liquid nitrogen for cooling chemical reaction vessels, cold baths or vapour trapping.

*FTS Systems, Inc., PO Box 158, Stone Ridge, NY 12484, USA.*

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### Ultrahigh Vacuum Chambers – a New Service from ITL

Instrument Technology Limited has identified a need for specialized high-vacuum and UHV chambers and has expanded its facilities by installing a new **2000 square feet Chamber Division.**

Casualties in the vacuum industry resulting from the recession mean that there are fewer companies with the specialized facilities and expertise to manufacture high-specification UHV chambers. ITL has assembled an experienced team with the capability to answer the demanding requirements of customers in science-based industries and research and development.

High-vacuum and UHV chambers up to 2 m<sup>3</sup> are typically manufactured from 304L or 316L stainless steel to customers' specifications and drawings. A design service is offered whereby customers can discuss their applications with ITL's design engineers who will then submit drawings for approval before manufacture.

Chambers are supplied fully leak tested and chemically cleaned to UHV standards. Non-magnetic mu-metal liners can be supplied where required. Complete vacuum systems with all necessary fittings and accessories from ITL's extensive range can be assembled. ITL's latest vacuum components catalogue includes a section introducing the facilities of the new Vacuum Chamber Division.

*Instrument Technology Limited, Castleham Road, St Leonards-on-Sea, East Sussex TN38 9NS, England.*

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### New ITL Catalogue with more than 2000 Vacuum Components

The new **1994/5 Vacuum Components Catalogue from Instrument Technology Limited** provides vacuum process engineers and scientists with a 105-page guide to ITL's comprehensive range of KF, ISO and CF components.

In addition to the essential range of basic construction fittings in a choice of high-quality stainless steels, the

catalogue lists electrical, instrument and liquid feedthroughs in a selection of flange styles. As one of Europe's largest manufacturers of ionization gauges, ITL offers an exceptionally wide range of glass-encapsulated and nude ionization gauges covering operational pressures from  $10^{-1}$  to  $10^{-9}$  Pa.

High-quality glass, quartz, sapphire and magnesium fluoride windows are available in a variety of flanges in both zero length and other formats: ITL's differentially pumped viewport offers transmission to  $10+\mu\text{m}$ .

The range of flexible connectors has been increased to provide KF/CF combinations in all popular sizes; these can be vacuum annealed for added flexibility. Each catalogue section includes a useful reference section describing sealing techniques and applications information.

A completely new section of the catalogue introduces ITL's Vacuum Chamber Division.

*Instrument Technology Limited,  
Castleham Road, St Leonards-on-Sea,  
East Sussex TN38 9NS, England.*

## Books Received

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*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.*

**Handbook of crystal growth.** Vol. 1: **Fundamentals. a: thermodynamics and kinetics; b: transport and stability.** Edited by *D. T. J. Hurle*. Pp. xiv + 1218. Elsevier: North Holland Elsevier Science Publishers, 1993. Price US \$388.50. ISBN 0-444-88908-6. A review of this book, by William R. Wilcox and Liya L. Regel, has been published in the September 1994 issue of *Acta Crystallographica Section A*, pages 652–653.

**Accuracy in powder diffraction II.** National Institute of Standards and Technology Special Publication 846. Edited by *E. O. Prince* and *J. K. Stalick*. Pp. vi + 234. Washington: US Department of Commerce, 1992. Price US \$14.00. US

Government Printing Office stock number 003.003.03186.1. A review of this book, by Hugo Steinfink, has been published in the September 1994 issue of *Acta Crystallographica Section A*, pages 653–654.

**Out of the crystal maze. Chapters from the history of solid-state physics.** Edited by *L. Hoddeson, E. Braun, J. Teichmann* and *S. Weart*. Pp. xxiii + 697. Oxford: Oxford University Press, 1992. Price £50.00. ISBN 0-19-505329-X. A review of this book, by Hugo Steinfink, has been published in the November 1994 issue of *Acta Crystallographica Section A*, pages 796–797.

**Random, non-random and periodic faulting in crystals.** By *M. T. Sebastian* and *P. Krishna*. Pp. xv + 383. Reading: Gordon and Breach Science Publishers, 1994. Price £85.00. ISBN 2-88124-925-6. A review of this book, by Hassel Ledbetter, has been published in the November 1994 issue of *Acta Crystallographica Section A*, page 797.