

Crystallographers

This section is intended to be a series of short paragraphs dealing with the activities of crystallographers, such as their changes of position, promotions, assumption of significant new duties, honours etc. Items for inclusion, subject to the approval of the Editorial Board, should be sent to The Executive Secretary, International Union of Crystallography, 5 Abbey Square, Chester CH1 2HU, England.

J. Appl. Cryst. (1993). **26**, 846

Frank C. Hawthorne has been awarded the Willet G. Miller medal of the Royal Society of Canada. The Miller medal is a biennial award for research in Earth Sciences. The citation was for combining crystallography, chemical theory and mathematics to provide innovative ways of treating mineral structures and their behaviour in geological processes. Frank Hawthorne is currently Professor of Crystallography and Mineralogy at the University of Manitoba.

International Union of Crystallography

J. Appl. Cryst. (1993). **26**, 846

Education and Teaching in Crystallography

Call for papers

The Editorial Board of the *Journal of Applied Crystallography* has decided to introduce a new section to cover all aspects of the teaching and education of crystallography. Full Articles, Short Communications and descriptions of educational computer programs may be submitted to any of the Co-editors. In addition, announcements and reports of teaching courses, as well as Letters to the Editor, should be submitted to the Editor of *Journal of Applied Crystallography*, A. M. Glazer.

J. Appl. Cryst. (1993). **26**, 846–847

Prices of *Acta Crystallographica* and *Journal of Applied Crystallography*

The Executive Committee of the International Union of Crystallography is pleased to announce that there will be a 15% discount on the prices of the individual sections for subscribers taking out a combined subscription to Sections A + B + C + D of *Acta Crystallographica*. Subscribers taking out a combined subscription to Sections A + B + C will receive a 4% discount. **Individuals** may also take out a combined subscription to Sections A + B + D at a discount of 5%. Section D is no longer included automat-

ically with the combined subscription to Sections A + B + C.

The Executive Committee has determined the following subscription rates and prices of back numbers for *Acta Crystallographica* and *Journal of Applied Crystallography* as from 1 January 1994.

Acta Crystallographica

The following rates will apply for Volumes A50, B50, C50 and D50 (1994). All subscription rates are fixed in Danish kroner. The US dollar equivalents are no longer given because of rapid fluctuations in exchange rates.

Complete volumes, regular price per volume

Sections A, B, C & D (combined subscription)	Dkr 8700
Sections A, B & C (combined subscription)	Dkr 8050
Section A only	Dkr 1890
Section B only	Dkr 1890
Section C only	Dkr 4565
Section D only	Dkr 1890

Complete volumes, reduced price for individuals

Sections A, B, C & D (combined subscription)	Dkr 2445
Sections A, B & C (combined subscription)	Dkr 2215
Sections A, B & D (combined subscription)	Dkr 1495
Section A only	Dkr 525
Section B only	Dkr 525
Section C only	Dkr 1300
Section D only	Dkr 525

All subscribers in the USA, Canada and Japan should add to the above subscription rates the additional charges for airfreighting as mentioned below.

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

The price of single parts of any Section of Volume 50 (1994) is Dkr 450.

Journal of Applied Crystallography

The following rates will apply for Volume 27 (1994). All subscription rates are fixed in Danish kroner. The US dollar equivalents are no longer given because of rapid fluctuations in exchange rates.

Complete volumes, regular price per volume

Dkr 1765

Complete volumes, reduced price for individuals

Dkr 485

All subscribers in the USA, Canada and Japan should add to the above subscription rates the additional charges for airfreighting as mentioned below.

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 27 (1994) is Dkr 450.

Airfreighting of copies to the USA, Canada and Japan

Deliveries of *Acta Crystallographica* and *Journal of Applied Crystallography* to the USA, Canada and Japan in 1994 will continue to be by air freight. The use of this service is obligatory for all subscribers in those countries. The charges in Danish kroner are as given below.

Acta Crystallographica

Sections A, B, C & D (combined subscription)	Add Dkr 490
Sections A, B & C (combined subscription)	Add Dkr 400
Sections A, B & D (combined subscription)	Add Dkr 270
Section A only	Add Dkr 90
Section B only	Add Dkr 90
Section C only	Add Dkr 220
Section D only	Add Dkr 90

Journal of Applied Crystallography
Add Dkr 70

Prices of back numbers

All these prices are fixed in Danish kroner. The US dollar equivalents are no longer given because of rapid fluctuations in exchange rates.

Acta Crystallographica

Complete volumes, regular price per volume

Vols. 1–23	Dkr 1890
Combined Vols. 24–38	Dkr 7000
Combined Vols. 39–49	Dkr 8050
Vols. A24–A49	Dkr 1890
Vols. B24–B38	Dkr 5325
Vols. B39–B49	Dkr 1890
Vols. C39–C49	Dkr 4565

Complete volumes, reduced price for individuals

Vols. 1–23	Dkr 525
Combined Vols. 24–38	Dkr 1965
Combined Vols. 39–49	Dkr 2215
Vols. A24–A49	Dkr 525
Vols. B24–B38	Dkr 1595
Vols. B39–B49	Dkr 525
Vols. C39–C49	Dkr 1300

Single parts

Single parts of Volumes 1–23 are not available. The price of single parts of any section of other volumes is Dkr 450.

Cumulative Indexes, regular price

Vols. 11–23 (1958–1967)	Dkr 125
Vols. 24–28 (1968–1972)	Dkr 125
Vols. 29–38 (1973–1982)	Dkr 160
Vols. 39–43 (1983–1987)	Dkr 160

Cumulative Indexes, reduced price for individuals

Vols. 11–23 (1958–1967)	Dkr 60
Vols. 24–28 (1968–1972)	Dkr 60
Vols. 29–38 (1973–1982)	Dkr 75
Vols. 39–43 (1983–1987)	Dkr 75

A few copies of the cumulative index for Volumes 1–10 (1948–1957) are also available, free of charge.

Journal of Applied Crystallography

Complete volumes, regular price per volume

Vols. 1–26	Dkr 1765
------------	----------

Complete volumes, reduced price for individuals

Vols. 1–26	Dkr 485
------------	---------

Single parts

The price of single parts of any volume is Dkr 450.

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

Regular price	Dkr 160
Reduced price for individuals	Dkr 75

Orders

Orders for *Acta Crystallographica* and *Journal of Applied Crystallography* may be addressed to Munksgaard International Publishers Ltd, 35 Nørre Søgade, DK-1370 Copenhagen K, Denmark. Orders from subscribers in North America may alternatively be placed through Polycrystal Book Service, PO Box 3439, Dayton, OH 45401, USA.

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.

J. Appl. Cryst. (1993). **26**, 847

–80° C Chiller

The new **RC210 Series Ultra Low Temperature Recirculating Chiller** provides cooling fluid down to –80° C at flow rates up to 8 g m⁻¹. The high-capacity mechanical refrigeration system of the RC210 removes 880 W (300 BTU h⁻¹) of heat at –60° C. An efficient heat-exchange system allows the system to cool from ambient to –60° C in less than 15 min. The RC210 is CFC free and requires only 208 V electrical power for operation.



The RC210 Series chiller

Brian Adams, Division Manager, Thermal Conditioning Division, FTS Systems, Inc., PO Box 158, Rt 209, Stone Ridge, NY 12484, USA

J. Appl. Cryst. (1993). **26**, 847

Freeze Dryers with Hydrogen Peroxide Vapor Sterilization

FTS Systems, Inc. is proud to offer a **Validatable Sterilization System**

with all of its freeze-dryers. FTS, in cooperation with AMSCO Scientific, has integrated the patented **Hydrogen Peroxide Vapor Sterilization System** with its freeze-dryers. Hydrogen peroxide in the vaporized (gaseous) form has been demonstrated to be a very effective low-temperature sterilant with unique characteristics.



FTS hydrogen peroxide vapor sterilization system

Hydrogen peroxide vapor is the most significant advancement in sterilization in 40 years. The H2O2 sterilization procedure is performed at room temperature in a few hours. Unlike any traditional sterilization techniques, hydrogen peroxide has no harmful environmental effects. At the end of the sterilization cycle, the only by-products are water vapor and oxygen. A complete sterilization requires only 3 to 4 g of sterilant; corrosion or material degradation is essentially non-existent because of the low sterilant concentration.

Hydrogen peroxide vapor as a low-temperature gas sterilant presents an opportunity to discontinue the use of environmentally threatening and carcinogenic gaseous sterilants such as ethylene oxide and formaldehyde. It also eliminates time-consuming steam cycles and the equipment damage from thermal and pressure cycling with steam.

Joe Brendle, Division Manager, Life Science Division, FTS Systems, Inc., PO Box 158, Rt 209, Stone Ridge, NY 12484, USA.

J. Appl. Cryst. (1993). **26**, 847–848

The Bede Scientific D³ Diffraction System

Bede Scientific have launched a new **high-resolution X-ray diffraction**