

## Notes and News

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### New Cryocrystallography Section

Cryocrystallography has recently become an important development area, especially for biological crystallographers who conduct flash-cooling experiments *etc.* To mark this development, a special section has been launched in *Journal of Applied Crystallography* entitled *Cryocrystallography Notes*.

This section will publish short communications and laboratory notes of a practical kind. Pat Weber, of the Schering-Plough Research Institute, will act as coordinator of this section.

### 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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### CRYSTAL PALACE™

This is a **crystal-orientation and Laue-pattern-plot program** for MS-DOS and UNIX by E. Preuss and Forschungszentrum Jülich, Germany.

In solid state and surface physics the orientation of single crystals is a widespread and frequently occurring task because many physical properties of single crystals depend on the orientation of samples. More than 20 years ago the *Laue Atlas* of the Forschungszentrum Jülich [Preuss, Krahl-Urban & Butz (1974). *Laue Atlas*. Düsseldorf: Bertelsmann Universitätsverlag] introduced a new and simplified method for the orientation of single crystals. Today, the simplified method of the direct comparison of Laue patterns with Laue diagrams in the *Atlas* can now be replaced by the most powerful software system for crystal orientation and Laue-pattern plotting available: CRYSTAL PALACE™.

CRYSTAL PALACE™ is the improved version of PLOMAC [Preuss (1979). *Comput. Phys. Commun.* **19**, 262] and COL [Preuss (1979). *Comput. Phys. Commun.* **18**, 277], which were originally used for the production of the Laue and

stereographic plots of the book *Laue Atlas*. CRYSTAL PALACE™ allows the evaluation of crystal orientation based on the visual comparison of Laue plots with Laue X-ray or neutron patterns (back-reflection, transmittance and cylindrical film geometry). Rotation angles of the crystal in special crystallographic directions can be directly read from the scales in the plots or they can be calculated by CRYSTAL PALACE™. Because structure factors, atomic scattering factors and the short-wavelength boundary are used, experimental Bragg reflections are simulated in correct scale between patterns and plots (1:1). The program can be used for any type of crystal system. Systematic catalogues of Laue plots can be generated easily for the different crystal systems.

CRYSTAL PALACE™ allows interactive data input and comes with a cookbook-style manual. CRYSTAL PALACE™ is available for MS-DOS and some UNIX systems. The DOS version runs also in DOS-Boxes of Windows, Windows-NT and OS/2. Plots can be directed to any PostScript or HPGL-compatible device.

The price excluding local taxes and shipping is DM 4000 (university discounts available).

*LabControl® Scientific Consulting and Software Development GmbH, Max-Planck-Strasse 17a, D-50858 Köln, Germany (email sales@labcontrol.com).*

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### XRD and XRF X-ray Tube Catalog Now Available

Richardson Electronics, Ltd, a leading international distributor of electronic components, has designed its **Industrial, Analytical and NDT X-ray Tube Catalog** to guide users to the right replacement tube for their X-ray equipment.

Richardson's primary supplier for XRD and XRF tubes is Varian Associates, the industry's premier independent manufacturer of a wide range of electron tubes and medical and industrial X-ray tubes. Richardson's have an extensive inventory of products and a worldwide technical sales network to assist in finding the industrial X-ray tube for any application.

Richardson's have X-ray diffraction tubes in stock for Norelco, Rigaku, Philips, Siemens, GE, Diano, Enraf-Nonius, Seifert and others. The brochure provides ratings and cross-reference information on Varian, Philips and Eureka types.

Richardson Electronics have been serving the replacement market for electron tubes, power semiconductors and related components since 1947. They have annual sales exceeding US \$ 200 million and an active customer base of more than 70 000.

To obtain Richardson's new catalog leave a message *via* the webserver at [www.rell.com](http://www.rell.com) and a catalog will be mailed within 48 hours.

*Richardson Electronics, Ltd, 40W267 Keslinger Road, Lafox, IL 60147, USA.*

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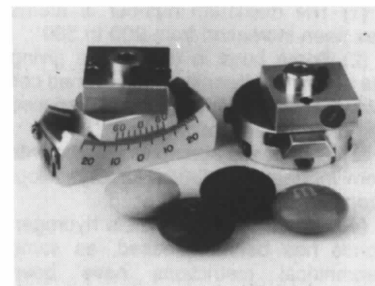
### Tiny Rotation Stage

A compact 360° rotation stage for mounting mirrors and other components to permit fine tune positioning and permanent locking, with the potential for realignment in the future, is available from Charles Supper Company, Inc. of Natick, Massachusetts, USA.

The **Supper 360° Micro-Rotation Stage** is constructed of aluminium with a hardened stainless steel socket drive screw to facilitate the final positioning and set-up of precise instrumentation. Featuring complete 360° rotation using a 6-spline hex drive key, the stage can be adjusted, locked and readjusted repeatedly.

Measuring only 1/2 (W) × 5/8 (H) × 3/8 (L) in, the stage can be installed alone on equipment or mounted on to the company's micro-goniometric arc assembly or X-Y slide for added adjustability. Stages are supplied with 0-80 cap screws on 1/2 in centres and can also be epoxied into place.

The Supper 360° Micro-Rotation Stage is priced at US \$125 (list). Literature and quantity pricing are available on request.



Supper 360° Micro-Rotation Stage

*Charles Supper Company, Inc., Donald E. Goodwin, Product Manager, 15 Tech Circle, Natick, MA 01760, USA.*