

New Commercial Products

Announcements of new commercial products are published by the Journal of Synchrotron Radiation 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 approval of the Main Editors, to whom all correspondence should be sent.

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. Synchrotron Rad. (1996). **3**, 91

Software Releases

Physical Electronics, Inc. (PHI), has released three new software packages.

PHI *MultiPak*TM software is a complete data reduction package designed for advanced processing of X-ray photoelectron spectroscopy and Auger electron spectroscopy data. Easy operation allows fast report generation including chemical separations, curve fitting, atomic concentrations, image processing and background subtractions.

PHI *TOFPak*TM is a powerful data reduction and image processing software package developed for TOF-SIMS (time-of-flight secondary-ion mass spectrometry). This package can be used with either the PHI Model 7200 TOF-SIMS or the PHI TRIFT II TOF-SIMS systems for surface molecular analysis.

*PC-EXPLORER*TM is an inexpensive, easy-to-use instrument control software package with unique features targeted

at the research community. It enables customers at universities and research facilities to add control functions to their PHI instruments. Data acquisition can be taken from X-ray photoelectron spectroscopy, Auger electron spectroscopy, ion-scattering spectroscopy and synchrotron applications.

PC-EXPLORER software also supports cylindrical mirror analyzers, double-pass cylindrical mirror analyzers and spherical capacitor analyzers (SCAs) on subsystems using PHI Models 137 or 257 PC Interface. Unique features include synchrotron spectrum modes of operation and parameter-dependent acquisitions.

Physical Electronics, Inc., 6509 Flying Cloud Drive, Eden Prairie, MN 55344, USA.

J. Synchrotron Rad. (1996). **3**, 91

New Products Supplement

New Products for 1996, a 20-page, 4-color supplement to EG&G ORTEC's 1995 catalog, contains 17 brand new products, including DSPECTM, the first totally digital gamma-ray spectroscopy system; PINS neutron-activation chemical assay system for field evaluation of containers containing munitions or hazardous chemicals; the Picosecond Time Analyzer, a multiple-stop time spectrometer with 1 ps precision for LIDAR, time-of-flight mass spectrometry, or fluorescence lifetime measurement; and the IGLET-XTM germanium detector with 135 eV resolution for X-rays of energy less than 0.5 keV.

EG&G ORTEC, 100 Midland Road, Oak Ridge, Tennessee 37830, USA.

J. Synchrotron Rad. (1996). **3**, 91

Ultra-High Vacuum Pumps

Physical Electronics, Inc. (PHI), has announced new pump designs for low-pressure pumping.

PHI's new pump designs have higher pumping speeds, are lighter in weight (by approximately one-third), lower stray magnetic fields and reach ultimate pressures of 10^{-11} Torr or lower.

Pump sizes range from 2 to 1000 l s⁻¹ and most pumps are available in conventional, differential-ion, or hydrogen-pumping configurations. PHI also offers a complete line of ion-pump controls and power supplies as well as combination pumps such as the TNB-X and the Boostovac.



PHI ultrahigh vacuum pump.

Physical Electronics, Inc., 6509 Flying Cloud Drive, Eden Prairie, MN 55344, USA.