New deposition tool

The Kurt J. Lesker Company has introduced the AXXIS, a modular thin film deposition tool that can easily be expanded and reconfigured.

The AXXIS can support processes that include sputtering, thermal evaporation, electron beam evaporation, PECVD plasma, ion cleaning, and others. The AXXIS is capable of heating, cooling and rotating a variety of substrates and is offered in both manual and computer-controlled versions.

For more information, please contact: Kurt J. Lesker Company, 1515 Worthington Avenue, Clairton, PA 15025-2700, USA. Tel: +1-412-233-4200. Fax: +1-412-233-4275. Web: www.lesker.com.

Vacuum components catalog

Thermo Vacuum Generators has released a new, 365-page color catalog of its extensive product line of high vacuum (HV) and ultrahigh vacuum (UHV) components. Included are complete specifications for thousands of components. Detailed color photographs, drawings, exploded views, tables, and graphs clearly describe the products, their features and applications. The catalog contains complete part numbers, ordering information and a current price list.

Many completely new products are presented, including SoftShut gate valves, PTFE/viton sealed valves, long life UHV rotary feedthroughs, wide range gauges from atmosphere to 10E-10 mbar, and residual gas analyzers. The catalog also contains a full line of flanges, fittings, doors, seals, viewports, sample manipulators, magnetic drives, rotary and linear drives, xyz tables and translators, cryostats, traps, titanium sublimation pumps, trap-diffusion pump combinations, leak valves, all-metal valves, heaters, bake-out accessories, and vacuum chambers.

The new catalog provides convenient tables for unit conversions, outgassing rates, leak rates, the behavior of gases in vacuum, and other technical data, including useful guidelines for designing your own vacuum chamber.

For a copy of this free catalog, please contact: Richard Stratford, Thermo Vacuum Generators, 355 River Oaks Parkway, San Jose, CA 95134, USA. Tel: +1-800-482-2485. Fax: +1-408-965-6141. E-mail: richard.stratford@vacgen.com. Web: www.thermovacgen.com.

Space Optics Research catalog

Master off axis parabolic mirrors, telescopes, beam expanders and LUPI interferometers are described in the new Space Optics Research Labs (SORL) catalog. This 24-page booklet provides a consolidated description of the SORL product line.

The catalog describes a complete line of 8th and 10th wave or better master precision aspheric optics and related optical systems. Catalog, stand-alone and custom off-axis parabolic mirrors are available up to about one-meter diameter. Additional specialty items are also detailed.

For a free copy of this catalog, please contact: Diane Chevalier, Space Optics Research Labs, 7 Stuart Road, Chelmsford, MA 01824-4107, USA. Tel: +1-800-552-7675. Fax: +1-978-256-5605. E-mail: SORL@sorl.com. Web: www.sorl.com.

The descriptions of the new products listed in this section are based on information supplied to us by the manufacturers, and in some cases by independent sources. Synchrotron Radiation News can assume no responsibility for their accuracy.
NEW PRODUCTS

ISO and KF vacuum components

HIS Vacuum Components has released a new, 36-page catalog of its complete product line of ISO and KF high vacuum components used in building, designing, modifying, and installing vacuum systems.

The catalog includes photographs, dimensional drawings, specifications, part numbers, prices, and ordering information for over 400 vacuum components, including ISO and KF flanges, elbows, reducers, piping, T-pieces, crosses, seals, bellows, flex hoses, ball valves, dust covers, and other parts. Parts are manufactured by HIS to a standard #5 polish, with a #7 polish, electroplating, or oxygen passivation available on many items. Most parts are available in either 304 or 316 stainless steel. Applicable parts are helium leak-tested and shipped in sealed packaging.

For more information, please contact: Chad Hoffman, HIS Vacuum Components, 6110 NW Croeni Rd., Hillsboro, OR 9714, USA. Tel: +1-408-965-6523. Fax: +1-408-965-6141. E-mail: Chadhoffman@hisoregon.com. Web: www.hisoregon.com.

Multi-compound quantification studies

Waters Corporation has introduced the latest version of QuanOptimise™, an enhanced plug-in for its Mass-Informatics™ platform (MassLynx™ 4.0). QuanOptimise allows quick and secure implementation of multi-compound quantification studies through a simple graphical user interface. MassLynx software manages results from Micromass™ brand spectrometers and Waters ZQ™ single quadrupole mass spectrometer.

QuanOptimise is a feature of the MassLynx software family designed to automate MRM (multiple reaction monitoring) or SIR—selected ion recording) parameters and acquisition method set-up for unattended "multi compound" quantitative LC-MS-MS (or LC-MS) analyses. This automated tool comprises four distinct processes: MS-MS optimization; construction of acquisition method and data acquisition; construction of quantification method and quantification; and data reporting. The required process is selected from options displayed in a logical sequence of dialogue boxes presented in a familiar Microsoft® Windows® XP or NT/2000 environment, and initiated using a wizard interface.

QuanOptimise has two main functions. First, it functions as a high throughput tool designed to automate method development for batch processing of quantitative bioassays. High throughput analyses accelerate the discovery and development of new drugs. With their flexibility, sensitivity and selectivity, mass spectrometry (MS) detectors are ideal for these applications. In such analyses, MS is typically employed in combination with HPLC.

Second, when used through Open Access Quan™ (a feature of OpenLynx™ Application-Manager), QuanOptimise creates an automated walk-up LC-MS-MS system for non-experts to produce quantitative data with ease. Results can then be displayed and reviewed as normal through the interactive QuanLynx™ browser. The Open Access Manager allows the system administrator to specifically tailor the walk-up process to the analytical requirements of the laboratory. Users simply log in, submit their sample information and select from a choice of existing LC-MS-MS methods or select the QuanOptimise option for automated development of a new method. The Open Access interface tells the user where to place their sample within the autosampler and confirms submission. The analysis is scheduled for automated acquisition and the subsequent results are emailed to the submitting scientist.

To function, the QuanOptimise process requires the submission of two sample lists—the first for instrument optimization, containing standard solutions of the compound to be analyzed; the second being the actual sample set for analysis.

For more information, visit the Waters-Micromass MS Technologies website: www.micromass.co.uk/quanlynx.