

RESOURCES

A summary of new products and services
for materials research...

SHV Coaxial Connectors: Small-diameter SHV connectors from Ceramaseal are designed to connect with standard 10-kV SHV plugs without compromising the 10-kV voltage rating. With a temperature range of -269°C to 450°C , the receptacles can handle currents up to 2 A and voltages up to 10 kV. The nonmagnetic connectors are flexible because of their small size and feature an improved surface over MHV connectors. Contact sales@ceramaseal.com; www.ceramaseal.com.
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LabVIEW™ Software Drivers for Hidden Mass Spectrometers: Free drivers for National Instrument's LabVIEW™ software are available for Hidden Analytical Windows-based quadrupole mass spectrometers. The drivers enable control and data integration concurrent with multiple process device operation and monitoring. The Hidden drivers are automatically self-configuring, with all mass spectrometer control parameters grouped within LabVIEW. They are supplied with a preformed virtual instrument interface for initial startup and can be downloaded from www.hiddenanalytical.com. Contact: info@hidden.demon.co.uk.
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Data Translation Service: CADCAM-E.COM offers a CIMS-PRO service that enables translation of Pro/ENGINEER data to SolidWorks. The conversion software can be downloaded at no charge, and users pay per conversion. The converter reads PRO/Engineer data from within a SolidWorks modeling session, and there is no need to upload a design file. All 3D geometry entities, including solids, are converted to equivalent SolidWorks entities. Translation filters reduce user-editing time by converting only the data needed. Contact: sales@cadcam-e.com.
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Bubbler Sparge System: Epichem has developed a sparge system for bubblers with body diameters of 100 mm or greater. The system consists of a centrally positioned dip pipe ending in a crosspiece that has laterally directed 1-mm diameter holes. For a 100-mm bubbler, this consists of three holes on each of the four arms of the crosspiece spaced at 12-mm intervals. The system is suitable for use in large bubblers where stable high delivery rates of precursor are required. Contact: tagliab@epichem.com; www.epichem.com.
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Digital Image Analyzer: Atlas Material Testing Solutions' VIEEW™ combines an optical system and intelligent teachable software to enable users to analyze surface structures and defects quickly, precisely, and with high reproducibility and repeatability. The classification of surface damage on the sample is performed in accordance with national and international standards or to customer specifications for visual evaluation. Applications include acid etching, scratch and mar, gravel impact, texture analysis, filiform and cross hatch corrosion, and delamination. Contact jchesler@atlas-mts.com; www.atlas-mts.com.
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High-Speed Image Transfer: Coreco Imaging's embedded frame grabbers and vision processors incorporate a dedicated high-speed image transfer bus, the Coreco Auxiliary Bus (CAB). The 200 MB/s synchronous data transfer bus can overcome PCI bottlenecks as required in compute-intensive embedded applications. The system architecture allows embedded frame grabbers, such as the Viper Series, to integrate seamlessly with embedded vision processors, such as the Mamba, bringing scalability to embedded vision solutions. Contact: info@imaging.com; www.imaging.com.
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High-Resolution Flat-Panel Display Technology: ClairVoyante Laboratories™ sub-pixel algorithms and PenTile Matrix™ architecture double flat-panel display resolution on both axes while using fewer display data drivers than conventional RGB stripe panel arrays. Panels can be fabricated with three color pixels in staggered rows that surround each color pixel with three each of the other two colors. Blue sub-pixels carry chroma information. The sub-pixels form a gaussian spot similar to that displayed by CRTs. Contact: sales@PenTile.com; www.PenTile.com.
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Optics and Optical Instruments: Edmund Industrial Optics™ provides a full range of products for the near-IR, visible, and UV wavelengths, including wavelength-specific lens coatings. The 314-page catalog features optics, telecom components, positioning equipment, lasers, laser diodes and optics, CCD lenses and cameras, imaging electronics, illumination sources, testing targets, inspection and stereo microscopes, inspection magnifiers, and alignment scopes. Also included are reference materials such as books and educational-quality demonstration optics. Contact: sales@edmundoptics.com; www.edmundoptics.com.
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Insulating Thin Films: Metallized Products' NRC-2™ thin films are made from ultra-lightweight polyester film with a heavy high-purity aluminum coating on one or two sides. These 25-gauge thin films are reflective, conformable, and will not outgas in vacuum. They are available with 250-Å or 500-Å of high-purity-aluminum, two-sided aluminized construction, and in a Cryolam structure consisting of a two-sided aluminized film with a non-outgassing spacer bonded together for layer separation. The crinkled finish minimizes conductive heat transfer and thermal short-circuiting in multilayer applications. Smooth films also are available. Contact: sales@webmpi.com; www.webmpi.com.
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Showcase Your New Products

To appear in *MRS Bulletin Resources*, submit new product announcements to:

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For further contact information for these products, check www.mrs.org/publications/bulletin/resources