

AVS 2009 Exhibitor Guide

NOVEMBER 10-12, 2009 • SAN JOSE MCENERY CONVENTION CENTER • SAN JOSE, CA



FREE
Exhibit Attendance
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Magnetic Interfaces & Nanostructures • MEMS and NEMS • Manufacturing Science & Technology • Vacuum Technology •

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www.accuglassproducts.com

Designs, engineers, and manufactures a wide range of ultrahigh vacuum subminiature-D electrical feedthroughs with air and UHV compatible connector fitted cable assemblies. The product range includes 9, 15, 25, and 50 pin instrumentation, power, coaxial, and thermocouple-power contact combinations. The product range has been expanded to include: 9-pin circular subminiature-C electrical feedthrough mounted on a MINI CF flange, viewports, bellows sealed rotary feedthroughs, and bellows sealed linear feedthroughs. We maintain a large inventory of standard components for off the shelf delivery. Minor modifications of standard components, and custom engineered products are also available with quick delivery.

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Alcatel Vacuum Products, Inc.

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www.adixen-usa.com

Alcatel manufactures a complete range of Adixen™ brand vacuum products including dry vacuum pumps and dry pumping systems, rotary vane pumps, ceramic bearing turbomolecular pumps, full 5 axis maglev turbomolecular pumps, molecular drag pumps, vacuum valves, vacuum gauges as well as vacuum flanges/fittings. Alcatel is also the world leader in helium and N₂/H₂ leak detectors.

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www.altairusa.com

www.Altairusa.com • Precision Furnace Brazing Services • Engineering and Design assistance • Turnkey Manufacturing • UHV Products • Electron Guns • RF Windows • LINAC Support • Ion Pumps • HV Feedthru's

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www.ambiostech.com

Ambios manufactures high performance, state-of-the-art, surface metrology equipment for industrial and academic researchers. Product line includes stylus profilometers, non-contact optical profilers, and AFM and SPM instruments.

American Institute of Physics

Phone: 516-576-2485

www.aip.org

AIP provides the applied physics community with world-class content, publishing titles that include Applied Physics Letters and Journal of Applied Physics—the #1 and #2 most highly cited journals in their field—and Review of Scientific Instruments—the most highly cited general instrumentation journal. Also ask us about our open access publishing option, Author Select; RSS feeds from AIP journals; and AIP Article Packs, which provide a package of article downloads at deeply discounted rates.

Ametek Process Instruments

Phone: 412-828-9050

www.ametekpi.com

The Dycor Dymaxion Mass Spectrometer offers the latest technology in gas analysis and includes System 2000 software for Windows XP. Features include ranges from 1-100, 1-200, and 1-300 AMU, a zero drift electrometer amplifier that ensures repeatable data, 32 bit multi-threaded operating software for real time process control, extensive systems integration capability, and Visual basic scripting. Ametek also offers PPT level trace moisture and oxygen analyzers that monitor gas purity.

Anfatec Instruments AG

Phone: 49-0-37421-24212

www.anfatec.com

The Anfatec Instruments AG is an established German producer of surface science instrumentation. The product range covers • Digital LockIn Amplifiers • AFM (Atomic Force Microscopes) • STM (Scanning Tunneling Microscopes) • PC based, versatile and affordable price SPM controllers as well as • parts and accessories for scanning probe microscopes. The electronic measurement equipment is developed in-house and built on the highest level available on the market.

Applied NanoStructures

Phone: 408-567-0115

www.appnano.com

APPNANO develops, manufactures, and supplies high end AFM probes and advanced MEMS devices. We leverage our extensive experience in silicon nanofabrication technology and research in AFM probes to bring you consistently high quality. Our extensive product line includes standard silicon probes for all applications, innovative HYDRA probes series for Bio-applications, step height standards, membranes and nanopores. Visit our booth to find out more and discuss your custom nanofabrication or probe modification requirements.

Applied Surface Technologies

Phone: 908-464-6675

www.co2clean.com

The CO₂ Snow Jet Cleaning System will be demonstrated. The cleaning process is simple, removing particles of all sizes (to below 0.03microns) and also organic residues from surfaces. This cleaning process works well on many substrates, vacuum parts, analytical samples (AFM, XPS), optics, and many other applications. The Snow Jet process is, nondestructively, residue-free with no environmental limitations. Bring test samples!

Asylum Research

Phone: 805-696-6466

www.asylumresearch.com

Asylum Research is the technology leader for atomic force and scanning probe microscopy (AFM/SPM) for materials and bio-science applications. Asylum's product line comprises the versatile MFP-3D™ AFM/SPM family, with top and bottom sample viewing and compatibility with inverted optical microscopes, and the new Cypher™ AFM, setting the standard as the world's highest resolution AFM with closed loop atomic resolution for the most accurate images and measurements possible, >10X faster AC imaging with small cantilevers, Spot-On™ automated laser alignment for easy setup, and integrated thermal/acoustic control. Asylum offers the industry's best customer protection plan and lowest cost of ownership, with our exclusive two-year warranty and six-month money back guarantee. Featured at AVS are Cypher™ AFM, the MFP™ NanoIndenter, Piezoresponse Force Microscopy for electromechanical measurements, and the new ZTherm™ Modulated

Thermal Analysis option with sub-zeptoliter volume resolution.

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Attocube Systems AG 126
Phone: 49-89-2877-8090 www.attocube.com
Attocube systems AG manufactures and distributes a complete line of easy-to-use probing stations, scanning probe microscopes and nanopositioning systems for temperatures in the range from 300K down to 10mK! The innovative instruments are also compatible with HV and UHV environments as well as with high magnetic fields up to 15T.

AVS-ASK THE EXPERTS-VAC TECH DIV. 128
Archives and online discussion forum year round at <http://www.avs.org/forum.aspx>
Do you have Puttering Pumps? Garbled Gauges? Spurious Species? Ask the Experts! Sponsored by Duniway stockroom and hosted by the AVS Vacuum Technology Division. An unbiased, open forum staffed by experts in various aspects of vacuum technology to discuss and help solve vacuum related issues.

AVS ART ZONE & CONTEST 129
Often members of the AVS community use scientific images to convey information. Sometimes these images contain aesthetic qualities that evoke a personal, intellectual, emotional, or spiritual response transforming them into objects of art. The question then is, where does the science end and the art begin? Let your fellow colleagues be the judge or your artistic interpretations of science as art. Submit an image or just stop by the Art Zone in the Exhibit Hall to cast your vote for your favorite images.

AVS CAREER CENTER 138
The AVS Professional Leadership and Outreach Committee will be hosting the AVS Career Center, open to all attendees, at the International Symposium for the purpose of connecting jobseekers with potential employers. The goal is to facilitate contact and networking during the Conference. In an attempt to create more opportunities for employers to find qualified applicants for job openings and for qualified applicants to have more opportunities to learn about potential employers we are expanding the AVS Career Center with a mini Job Fair during the Symposium. The basics of our past services will continue. We will collect job postings/resumes (prior to and during the event), complete timecards, schedule/coordinate interviews, supply a message board and have resume binders available for review. Interviews may be scheduled Tuesday through Friday

AVS MEMBERSHIP BOOTH & STORE 138
Take charge of your professional career by becoming a member of the AVS. Your AVS membership entitles you to a range of professional and personal opportunities. Find

out more by stopping by the Membership booth during the symposium. The booth will also offer an array of AVS offerings including Educational Material, Logo and Novelty Items.

AVS EXHIBITOR WORKSHOPS 911
Stop by the exhibit hall during the technical session breaks to learn about new products and services offered by the exhibitors. Free Entry!

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Phone: 714-974-4141 www.axrtech.com
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Brooks Automation is the global leader in the development and application of innovative vacuum technology solutions. Through our CTI-Cryogenics®, Granville-Phillips®, and Polycold® Systems solutions, we provide a broad range of critical vacuum components, controls and subsystems that are key to the performance of semiconductor, flat panel and disk drive manufacturing equipment.

Cambridge Nanotech, Inc. 718
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Cambridge NanoTech focuses on simplifying the science of atomic layer deposition (ALD) solutions for customers worldwide-from universities to the largest corporations-by delivering comprehensive services and versatile, turnkey systems that are accessible, affordable and accurate to the atomic scale. With unparalleled support, Cambridge NanoTech experts collaborate with customers to apply thin film techniques to unique coating challenges, acting as a catalyst for new applications worldwide.

Cambridge University Press (US) 231
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CETR is a world leading manufacturer of nano, micro and macro mechanical testers for thin films and bulk materials, with measurements of adhesion, delamination, scratch-resistance, nano- and micro- hardness, elastic modulus, friction, reciprocating and rotary wear, fatigue, elasticity, and other mechanical properties, including in high and low temperatures, humidity, vacuum, for biomedical, microelectronics and other industries, as well as for basic materials research on nano and micro levels.

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Phone: 864-682-3215 www2.ceramtec.com
CeramTec North America is the world leader in the design and manufacture of ceramic-to-metal and glass-to-metal ceramic hermetically sealed electrical & optical components including: feedthroughs, multipin connectors (Circular & Sub D Type), coaxial connectors, viewports/windows, thermocouples, isolators, baseplate feedthroughs and accessories. More than 57 years of experience & an ISO 9001:2000 quality system stand behind our hermetically sealed components!

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Eagle Instrument Services 314
Phone: 502-380-0990 www.eaglevac.com
Eagle is dedicated to exceptional customer service delivered with genuine care to every customer. We offer quality repair services for turbomolecular pumps, mechanical pumps, diffusion and diaphragm pumps. A variety of pumps are available as loaners and/or exchanges to fit our customer's needs. Turbo Repair Kits and Refurbished equipment are available. All work and equipment include a One Year New Parts Warranty

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EMSL 535
Phone: 509-371-6244 www.emsl.pnl.gov
EMSL—the Environmental Molecular Sciences Laboratory—is a Department of Energy national scientific user facility located in Richland, Washington. EMSL houses an unparalleled collection of state-of-the-art computational and experimental capabilities that are used to address scientific challenges relevant to DOE and the nation. Researchers from around the world are encouraged to use EMSL's unique capabilities with an emphasis on merging computational and experimental instruments. Access to EMSL is at typically no cost through a peer-reviewed proposal process. See www.emsl.pnl.gov for more information.

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Gamma Vacuum 521
Phone: 952-445-4841 www.gammavacuum.com
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Phone: 608-441-2722 www.gwctechnologies.com
 GWC Technologies provides tools for surface sensor development, with an emphasis on biosensors.

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Helium Leak Testing, Inc. 234
Phone: 818-349-5690
www.heliumleaktesting.com

Hidden Analytical, Inc. 335
Phone: 734-542-6666 www.hiddenanalytical.com
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studies, surface science applications, precision gas analysis and vacuum diagnostics. Showcasing the "HPR-20", our fast response, capillary inlet system for process gas analysis, catalysis studies, combinatorial chemistry and reaction kinetics. Hidden Analytical extends it's UHV surface analysis range with 'MAXIM', a high-performance quadrupole secondary ion monitor specifically designed for optimum sensitivity in surface analysis and depth profiling applications.

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NNIN / Cornell University 536
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Nor-Cal Products, Inc. 125
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Manufacturer of high vacuum components since 1962. Standard components: flanges, fittings, viewports, feedthroughs and flex-hose; isolation and pressure control valves; thermal products; molecular sieve, particulate and cold traps; thin film components; pressure gauges and manipulators. Custom components: chambers, traps, manifolds, collars and baseplates from customer specifications. 3D Model Library available on-line. An ISO 9001-2000 certified company.

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