

Exhibitors

Aerotech
Agilent Technologies
Anderson Dahlen
Angstrom Scientific Inc.
Applied Diamond, Inc.
Attocube Systems, Inc.
AVS US, Inc.
Berkeley Nucleonics Corporation
Control Plus
DECTRIS USA
Edwards Vacuum
FMB Oxford Limited
GoEngineer
Hitachi High-Tech America Inc.
Huber Diffraction USA
InSync, Inc.
KA Imaging
KETEK GmbH
KEYENCE Corporation of America
KOHZU Precision, LLC
Kurt J. Lesker Company
Leybold USA
McCrone Group

Mirion Technologies
MiTeGen
MW Components
Nanoscience Instruments
OMS Motion, Inc.
Pfeiffer Vacuum, Inc.
Psylotech
Quantum Design
Quantum Detectors
Rayonix, LLC
SAES
Scienta Omicron, Inc.
SPECS-TII Inc.
Starrett Tru-Stone Technologies
Surface Measurement Systems
TDK Lambda Americas
Teledyne Princeton Instruments
Televac-The Fredericks Company
Tibidabo Scientific Industries
Vacuum One
VAT Group
XIA, LLC

<p>Aerotech 101 Zeta Dr. Pittsburgh, PA 15238 Tel: 412-963-7470 https://www.aerotech.com/</p> 	<p>About Aerotech, Aerotech Inc. is the global industry leader in precision motion control and automation. From standard positioning technologies, control systems and light manipulation to custom-designed automation systems, our products support research and industrial organizations worldwide. Aerotech solutions enable manufacturing, testing and inspection processes on a micrometer and nanometer scale for the world's best-known technology companies in industries such as semiconductors, consumer electronics and medical devices.</p>
<p>Agilent Technologies 2850 Centerville Wilmington, DE 19808 Tel: 800-227-9770 https://www.agilent.com/</p> 	<p>Agilent vacuum pumps, pumping systems, measurement instruments, components, and helium leak detectors allow you to create, measure, and maintain vacuum for your applications, processes, or research. Learn about Agilent's clean, dry, quiet IDP scroll pumps, high performance, high compression TwisTorr turbo pumps, optimized, UHV/XHV ready ion pumps and controllers, and rugged, reliable helium leak detectors. Agilent leverages its Varian Vacuum roots to fulfill your vacuum needs with product value and experienced, knowledgeable support. Agilent pumps, systems, and components enable advanced research in physics, analytical instrumentation, and nanotechnology, they are also a perfect fit for industrial processes.</p>
<p>Anderson Dahlen 6850 Sunwood Dr. NW Ramsey, MN 55303 Tel: 781-299-0657 https://andersondahlen.com/</p> 	<p>At Anderson Dahlen, we manufacture custom vacuum chambers of any size or complexity. To ensure we meet and exceed your project requirements, we'll introduce you to our engineering group to assist with all design considerations. We've produced everything from one-of-a-kind research chambers for national labs and universities to production volume chambers for world-class equipment manufacturers.</p>
<p>Angstrom Scientific Inc 120 N. Central Ave., Ste. 3 Ramsey, NJ 07446 Tel: 201-962-7222 https://www.angstrom.us/</p> 	<p>Angstrom Scientific Inc. represents a number of leading manufacturers supporting materials characterization and analysis solutions. These include Hitachi Tabletop SEMs, Imina Nano-probing systems, Point Electronics EBIC/EBAC, Leica Sample preparation equipment, NenoVision In-Situ AFM, Alemnis In-Situ Nano-Indenters, EMSIS TEM Cameras, and Laser Thermal - Thermal Property Management tools.</p>
<p>Applied Diamond, Inc. 3825 Lancaster Pike Wilmington, DE 19805 Tel: 302-999-1132 www.usapplieddiamond.com</p>	<p>Applied Diamond supplies and manufactures synthetic and natural diamonds and offers post-processing services including polishing, laser cutting, etching, metallization, and brazing. The company is based in Wilmington, Delaware, and has been involved with CVD since 1992. Applied Diamond's diverse product line includes products for high energy beam lines, heat sinking of</p>

 <p>Applied Diamond, Inc. USAppliedDiamond.com</p>	<p>electronic devices, CO₂ laser and microwave windows, particle detection and beam position monitoring. The company strives to develop custom solutions for existing and new diamond applications.</p>
<p>Attocube Systems, Inc. 2115 4th St., Ste B Berkeley, CA 94710 Tel: 510-649-9245 https://www.attocube.com/en</p>  <p>attocube WITTENSTEIN group</p>	<p>In 2001, attocube systems AG was founded in Munich, Germany and is recognized internationally for innovation and excellence in the development, the production, and the distribution of cutting-edge solutions for the most challenging nanotechnology applications in research and industry. Since our early days, the portfolio includes ultra precise nano drives, compatible with extreme environmental conditions such as UHV, magnetic field, radiation exposure, as well as cryogenic to elevated operating temperatures. They can be used for highly accurate positioning tasks and can be combined with the ultra-precise displacement sensor IDS. Our business sector 'Nanoscale Analytics' (also known as neaspec) develops and produces innovative solutions for nanoscale imaging and spectroscopy. The neaSCOPE system is an ultra-stable, easy-to-use instrument for tip-enhanced optical measurements with remarkable scientific impact. We also offer a broad selection of customizable liquid and dry cryostats that work at the very edge of technical and physical feasibility and are predestined to be combined with our microscopes, nanopositioners, cryogenic objectives, and interferometric sensors. Our customized engineering solutions are developed for cutting-edge applications, always optimized for the specific customer requirements.</p>
<p>AVS US, Inc. 126 Ridge Road Lansing, NY 14882 Tel: 607-533-3531 https://www.a-v-s.es/home</p> 	<p>AVS US designs and develops mechanisms working in harsh environments such as cryogenic temperatures, neutron and gamma radiation, ultra-high vacuum, and high magnetic fields. We are committed to offering effective solutions to the design and engineering problems that our customers could have, by means of the most modern design tools and a contrasted background experienced team. AVS US offers every stage that an engineering development could involve, from the conceptual design, all the way up through detail design, manufacturing, assembly, and test with the advantage of having in-site manufacturing workshop, integration laboratories including cleanroom, and all certified according to AS9100.</p>
<p>Berkeley Nucleonics Corporation 2955 Kerner Blvd. San Rafael, CA 94901 Tel: 415-453-9955 https://www.berkeleynucleonics.com/</p> 	<p>Berkeley Nucleonics Corporation (BNC) is a leading manufacturer of precision electronic instrumentation for test and measurement, radiation detection, nuclear research, and RF/microwave. From signal generators to spectrum analyzers, we offer the widest range of signal generation and analysis tools from a single manufacturer. Our application engineers are always available to discuss your specific needs. BNC happily offers product demonstrations if you're interested in testing out a unit on site to make sure that it is right for you.</p>
<p>Control Plus Inc. 783 N York St.</p>	<p>Control Plus is the manufacturer's representative for Brooks Instrument and process</p>

<p>Elmhurst, IL 60126 Tel: 630-279-9025 www.controlplusinc.com</p> 	<p>instrumentation. Brooks Instrument is the leading global mass flow control and flow meter manufacturer, Brooks Instrument offers the world's most comprehensive line of precision flow control and flow measurement devices.</p>
<p>DECTRIS USA 1500 Walnut St., Suite 1630 Philadelphia, PA 19102 Tel: 215-384-3479 https://www.dectris.com/en/</p> 	<p>We are proud to develop and manufacture high-performance X-ray and electron detectors that, in the hands of our users, enable new scientific achievements at Synchrotrons and lab sources.</p>
<p>Edwards Vacuum 6416 Inducon Drive West Sanborn, NY 14132 Tel: 800-848-9800 https://www.edwardsvacuum.com/en-uk</p> 	<p>At Edwards, we create vacuum technology to meet exact demands, whether through off-the-shelf or bespoke solutions; from initial advice on modeling and specifications through to implementation and support, we deliver safe, stable, vacuum environments that keep up with the complex and evolving demands on both analysis and discovery.</p>
<p>FMB Oxford Limited Unit 1 Ferry Mills Osney Mead Oxford OX2 OES United Kingdom Tel: +44 (0)1865 320300 www.fmb-oxford.com</p> 	<p>FMB Oxford is an established leader in the supply of beamlines and beamline equipment to the scientific community. Specializing in the design, assembly, test, installation, and commissioning of high value systems. With over 25 years' experience in the global synchrotron industry, FMB Oxford has built an extensive product portfolio and continues to work with customers and other experts in the community to expand and develop this range. Providing innovative solutions capable of supporting the increasing demands of science. Ongoing investment in new production, test, and design facilities, together with the recruitment and development of key staff, ensures that FMB Oxford remains at the forefront of beamline system supply.</p>
<p>GoEngineer 739 Fort Union Blvd. Midvale, Utah 84047 Tel: 800-688-3234 https://www.goengineer.com/</p>	<p>GoEngineer has been at the forefront of technical innovation for over 40 years helping engineering, manufacturing, and product design companies stay competitive. Our solutions portfolio contains products from Dassault Systems and industry-leaders in 3D printing, 3D scanning, and post-processing technology. Customers have access to thousands of training resources, on-demand support, customer portal access, mentoring sessions, and a unique interactive community for engagement and camaraderie with other engineers.</p>



goengineer

3D PRINTING SERVICES

Hitachi High-Tech America, Inc.

20770 Nordhoff St.

Chatsworth, CA 91311

Tel: +44-747-1086-241

<https://www.hitachi-hightech.com/global/en/products/analytical-systems/sdd/>

HITACHI

Inspire the Next

We at the Hitachi High-Tech Group have, as of April 2022, started our new 2024 Medium-Term Management Plan. Whatever happens in the world around us, our core technologies in observation, measurement, and analysis (measurement and analysis technologies), which are our strength, possess the potential to solve many different types of social issues.

By maximizing our utilization of digital technology and bringing ourselves face-to-face with the needs and issues faced by our society and our customers, we will create new value by strengthening existing businesses and creating new businesses and make significant contributions to solving social issues through our capabilities in observation, measurement, and analysis technologies. We also seek to evolve our business structure into one that will allow us to further leverage our strengths, seek our own evolution without fear of change and become a company where every employee has a real sense that they are personally contributing to society through our business.

The Hitachi High-Tech Group's basic philosophy is to become "a successful enterprise trusted by all our stakeholders and contribute to social progress through business activities that emphasize value creation through high-tech solutions." Every employee keeps this philosophy in mind at all times. Furthermore, we at the Hitachi High-Tech Group strive to remain a company deemed essential by our society by tying together all businesses to sustainability, and creating societal issue-driven value, thereby contributing to the realization of a sustainable society.

Huber Diffraction USA

25266 Brigantine Dr.

Dana Point, CA 92629

Tel: 949-218-4440

<https://www.xhuber.com/en/>

HUBER

Diffraction and Positioning Equipment

HUBER DIFFRACTION (Huber Diffraction, GmbH & Co. KG) is a manufacturer of precise positioning and diffraction equipment for laboratory, synchrotron, and neutron applications. The all-in-house manufacturing covers rotary stages (goniometers), segment stages and linear stages of different size and load capacity. The Huber standard stages can be widely customized and combined to multi axis positioning systems or complete diffractometers.

InSync, Inc.

2511 Broadbent Pkwy., Suite C

Albuquerque, NM 87107






Tel: 505-345-2660

<http://insyncoptics.com/>




InSync, Inc.

InSync, Inc. has been supplying "state of the art" synchrotron optics since 1993. It is a continuing goal of InSync, Inc. to satisfy changing light source needs by working with the synchrotron community and adjusting capabilities. InSync, Inc. is a custom, high-tech, optical manufacturing company, specializing in unique super polished optics up to 1500mm in size. Capabilities: Computer Design, Finite Element Analysis, Slicing, Grinding, Feature Machining, Etching, Bonding, Lapping, Polishing, Coating, and Metrology Polished Shapes: Cylindrical, Spherical, and FlatSubstrate Designs: Internally Cooled, Externally Cooled, Uncooled, Rectangular, Round, and Bendable for other

	<p>polished shapes Substrate Materials: Silicon, Glass, Metals 2511C Broadbent Pkwy, Albuquerque, NM 87107505/345-2660505/345-2589 (Fax)inq@InSyncOptics.comwww.InSyncOptics.com</p>
<p>KA Imaging 3-560 Parkside Dr. Waterloo, Ontario N2L5Z4 Canada Tel: 226-215-9897 https://www.kaimaging.com/</p> 	<p>KA imaging produces affordable, easy to use benchtop 3D phase contrast X-ray microscopes, high-resolution X-ray area detectors and flat panel detectors for medical, scientific, and industrial non-destructive test (NDT) imaging applications.</p>
<p>KETEK GmbH Hoferstrasse 3, Munich, Bavaria 81737 Germany Tel: +49 89 67346770 https://www.ketek.net/</p> 	<p>KETEK, the leading manufacturer of Silicon Drift Detectors, presents its new Array 3.0, which supports up to seven VITUS SDD modules and combines very large area, excellent energy resolution and high-count rate capability by a single compact system with no need for additional equipment such as vacuum pumps or chillers. The Array 3.0 can be freely configured with three to seven vacuum encapsulated SDD modules, with collimated areas between 7 mm² and 50 mm² each, resulting in a total collimated area of up to 350 mm². The system can be operated at input count rates up to 1 Mcps per channel (7 Mcps in total) at peaking times down to 100 ns. Typical energy resolution of each channel is <127 eV @ 1 µs peaking time for Mn Kα-line. All SDD modules feature KETEK's high-end charge sensitive amplifier (CSA) as well as KETEK's proprietary CH- or CL-Graphene windows with excellent x-ray transmission from 0.1 keV (CL-type) upwards. We will further present KETEK's latest electronics generation 3.0, including the brand new DPP3.0 digital pulse processor, offering 25 ns as shortest peaking time for super-high input count rates up to 4 Mcps and throughput at < 60% dead time. On the other side an excellent energy resolution down to 123 eV (Mn Kα-line) can be achieved at 1 µs peaking time.</p>
<p>KEYENCE Corporation of America 500 Park Blvd., Suite 500 Itasca, IL 60143 Tel: 888-539-3623 https://www.keyence.com/</p> 	<p>KEYENCE strives to develop innovative and reliable products to meet the needs of our customers in every industry. With quality standards increasing, KEYENCE's advanced microscope and surface measurement systems ensure that our customers can meet those standards. High-resolution imaging, ISO-certified roughness, elemental analysis, and 2D/3D measurement is coupled with easy-to-use interfaces for an elevated inspection experience. We at KEYENCE offer a full range of services: free on-site demonstrations and sample testing, training, after-sale support, and overnight shipping so our customers can improve their processes as quickly as possible.</p>
<p>KOHZU Precision, LLC 6727 Happy Hill Rd.</p>	<p>KOHZU Precision Co. manufactures industry-leading scientific & experimental equipment for</p>

<p>Evergreen, CO 80439 Tel: 303-944-1082 www.dfcrews.com</p> <div data-bbox="207 279 583 657">   <p>DANIEL F CREWS, LLC</p> </div>	<p>synchrotrons and laboratories including monochromators, diffractometers, measurement equipment along with high-precision, linear stages (X), rotary axes (R), vertical lift stages (zed axis, Z), stacked XY, swivel or goniometer stages (tip/tilt) for atmospheric or vacuum environments. Stages are available with manual micrometers or stepper motors (motorized). KOHZU also manufactures 6-axis alignment stations perfect for metrology & synchrotron beamline systems. LAB Motion Systems (15+ years of experience) manufactures world-class air bearing products including rotary air bearings, linear air bearings and fully integrated, multi-axis granite-based air bearing systems. LAB's rotary air bearings offer nano-precision in compact, high-performance systems. The RT150U rotary stage has unmatched performance.</p>
<p>Kurt J. Lesker Company 1925 Route 51 Jefferson Hills, PA 15025 Tel: 412-387-9200 www.lesker.com</p> 	<p>Manufacturer/distributor of: standard and custom high vacuum and UHV chambers and subassemblies; standard and custom vacuum hardware; feedthroughs; valves, vacuum pumps of all types. Manufacturer of thin film deposition systems for sputtering, electron beam, thermal evaporation, and Atomic Layer Deposition. Exclusive North American representative for UHV Design Ltd. Motion, heating, and manipulation devices.</p>
<p>Leybold USA 6005 Enterprise Dr. Export, PA 15632 Tel: 724-387-4603 https://www.leybold.com/en</p> 	<p>Leybold USA is a crucial partner for national laboratories, providing advanced vacuum solutions for light beam technology and photonics research. Leybold's TURBOVAC iR and iX series pumps offer precise vacuum conditions for spectroscopy and photon counting. TURBOLABs and TURBOLAB Cores provide turnkey and customizable vacuum solutions, enabling national labs to conduct experiments with reliability and efficiency, pushing the boundaries of scientific discovery.</p>
<p>McCrone Group 850 Pasquinelli Dr. Westmont, IL 60559 Tel: 630-887-7100 www.mccrone.com</p> 	<p>The McCrone Group is internationally recognized as a world leader in microscopy and microanalysis and includes McCrone Associates, McCrone Microscopes & Accessories and Hooke College of Applied Sciences. McCrone Associates is focused on solving the most difficult materials and particle identification problems. McCrone Associates' scientists consult directly with clients and use the most advanced microscopy techniques and instrumentation to solve their problems. McCrone Microscopes & Accessories is the authorized dealer for Nikon microscopes and measuring equipment, Olympus microscopes, Linkam high temperature and X-ray stages, the JEOL NeoScope benchtop SEM with EDS, Timegate Raman, digital imaging systems, and a variety of laboratory supplies. The technical sales representatives at McCrone Microscopes are trusted advisors to scientists worldwide. Hooke College of Applied Sciences, provides online education and training to scientists worldwide, specializing in microscopy instruction.</p>
<p>Mirion Technologies 800 research Pkwy. Meriden, CT 06450 Tel: 203-335-1347 https://www.mirion.com/</p>	<p>At Mirion Technologies, we partner with industry leaders to advance radiation safety and empower the next wave of critical innovation. From detection and measurement to monitoring and analysis, we empower innovators across industries — in leading-edge R&D labs, critical nuclear facilities, and on the front lines — with radiation safety technologies that operate with the</p>

	<p>highest levels of precision. We partner with our customers to build solutions that deliver complete confidence in safe operations and harness the transformative power of safe radiation to move our world forward. Learn more: mirion.com.</p>
<p>MiTeGen 95 Brown Rd., MS 1034, Suite 124 Ithica, NY 14850 Tel: 607-266-8877 https://www.mitegen.com/</p> 	<p>MiTeGen designs, manufactures, and distributes tools for crystallization, crystallography, cryo-EM and X-ray diffraction. We work with researchers and labs from around the world to improve their workflow and ability to solve structures. Our tools have been mentioned over 5000 times in scholarly papers and are trusted by researchers. Let us help you with your research.</p>
<p>MW Components 3426 Toringdon Way, #400 Charlotte, NC 28277 Tel: 704-837-0331 https://www.mwcomponents.com/</p> 	<p>MW Components is focused on accelerating the entire process of delivering custom, stock, and standard parts to virtually any volume and against demanding deadlines. We work to highly complex tolerances. We help simplify the management of any number of different components. And we take a no-compromise approach to quality. With MW Components you can be sure you'll get the right part to the right specification when and where you need it.</p>
<p>Nanoscience Instruments 10008 S. 51st Street, Ste. 110 Phoenix, AZ 85044 Tel: 480-758-5400 https://www.nanoscience.com/</p> 	<p>"Nanoscience Instruments combines expertise in microscopy and surface science instrumentation with real-world solutions. We partner with innovative instrument manufacturers around the world to help scientists and engineers solve complex problems leading to break-through innovations. Our team of scientists and engineers are passionate about solutions and connecting our customers with the right products and services to accomplish these goals.</p> <p>Our customers across academia, government and industry benefit from our innovation and quality assurance. Our fast and responsive staff provides support and advice in instrumentation selection, installation, training, and service. We are committed to your success.</p>
<p>OMS Motion, Inc. 3400 NE John Olsen Ave., Ste. #120 Hillsboro, OR 97124 Tel: 503-629-8081 https://www.omsmotion.com/</p> 	<p>OMS Motion has been producing motion controls for 40 years. Originally founded in the early 80's as Oregon Micro Systems, OMS developed patented technology that provides advantages in the motion control industry. The core products include multi-axis controllers up to 10-axes, fully coordinated and synchronized, as well as single-axis integrated drive/controllers. OMS Motion has the experience, proven reliability and performance that has gained the confidence of engineers and scientists worldwide. MS Motion found success in markets around the world, including semiconductor equipment, lab automation and life science instruments, factory automation, large- and small-scale research facilities/projects, astronomy research and</p>

	<p>others. Currently there are OMS products in use around the world, on every continent and several countries, supporting mission critical applications. OMS products are proven and help enable the creation of great products and processes. OMS Motion's products were designed to be easy to commission while providing superior performance. The use of advanced components allows OMS to avoid excess overhead and produce very effective performance. The company's strong commitment to their customers success has manifested the support of some individual product applications for more than 28 years, which is no easy task. OMS Motion firmly believes in doing the right thing, which is a testament to how they have had 40-years of success.</p>
<p>Pfeiffer Vacuum, Inc. 24 Trafalgar Square Nashua, NH 03063 Tel: 603-704-0224 https://usa.pfeiffer-vacuum.com/</p>  <p>Your Success. Our Passion.</p>	<p>With US headquarters in Nashua, NH and global headquarters in Asslar, Germany, Pfeiffer Vacuum is one of the world's leading providers of vacuum solutions. In addition to a full range of hybrid and magnetically levitated turbopumps, the product portfolio comprises backing pumps, measurement and analysis devices, components as well as vacuum chambers and systems. Founded in 1890, Pfeiffer Vacuum is active throughout the world today. The company employs a workforce of some 4,000 people and has more than 23 subsidiaries. Pfeiffer Vacuum, Inc. is part of Pfeiffer Vacuum Technology AG.</p>
<p>Psylotech 1616 Payne Street Glenview, IL 60025 Tel: 847-328-7100 https://psylotech.com/</p> 	<p>Psylotech produces universal mechanical load frames for X-ray tomography and XRD. Advantages of our computed tomography systems include: -A rotating load train facilitates quick access to samples-High speed actuation facilitates fatigue and high rate testing-Runout correction software for sub-micron resolution-Software automation modules for beamline integration-Portability - for example, the 10kN system weighs 25kgPsylotech's XRD frames leverage the same low out-of-plane technologies developed for miniature under microscope universal testing machines. Dual moving cross-heads keep the sample centered on the beamline. Temperature testing is also available, including a -100 to 400°C environmental chamber, 800°C & 1600°C furnaces, as well as a laser heated option. Learn more at our booth, info@psylotech.com, www.psylotech.com, or 847-328-7100.</p>
<p>Quantum Design 10307 Pacific Center Ct. San Diego, CA 92121 Tel: 858-481-4400 qdusa.com</p> 	<p>Quantum Design Inc. (QD) is the manufacturing arm of QDI. Located in San Diego, California, QD is the leading commercial source for automated materials characterization systems incorporating superconducting technology. QD instruments may be found in the world's leading research institutions and have become the reference standard for a variety of magnetic and physical property measurements. Quantum Design instruments are cited in, and provide the data for, more scientific publications than any other instrument in the fields of magnetics and materials characterization. This means that each year, literally hundreds of scientific publications, advancing the science of materials, use data generated from QD instruments. Quantum Design then expanded its product line beyond material characterization, to include instruments such as: a 7T magneto-optical cryostat (OptiCool®) for experiments that use light and other forms of radiant energy to probe matter; a compact IR Crystal Furnace and also a</p>

	<p>laser furnace for the creation of new materials; and a full line of NexGen Liquefiers and Helium Recovery Systems for the conservation and recycling of helium (a vital and increasingly scarce resource essential for cryogenic research and instrumentation). Very recently, Quantum Design introduced an innovative correlative AFM/SEM microscope platform (FusionScope®) that was designed from the ground up to harness the benefits of using SEM with AFM microscopy while offering a wide range of AFM measurement modes.</p>
<p>Quantum Detectors R103, RAL, Fermi Avenue Harwell OX11 0QX United Kingdom Tel: +44 (0)1235 632 047 https://quantumdetectors.com</p> 	<p>For the optimum result, your synchrotron research needs reliable, high-performance, easy-to-use detectors and readout solutions. Sensitivity, resolution, acquisition speed and efficiency, without compromise. That's exactly what Quantum Detectors delivers to you. Quantum Detectors, a spinout from the Science & Technology Facilities Council and Diamond Light Source, the UK's synchrotron, is a market-leading provider of detector systems for X-ray diffraction, X-ray fluorescence, and electron microscopy. Our aim is to make cutting-edge technology accessible to the global science community, as we believe access to the best detection technology should be the fuel behind scientific discovery, not the barrier.</p>
<p>Rayonix, L.L.C. 1880 Oak Ave., Suite 120 Evanston, IL 60201 Tel: 847-869-1548 rayonix.com</p> 	<p>Rayonix L.L.C. has 25 years history of supplying state-of-the-art X-ray area detectors to synchrotron and XFEL beamlines worldwide, as well as university and industry laboratories. The MX-HS high-speed, high-resolution X-ray detectors have no count rate limitation, no gaps in the imaging area and only 1 msec dead time. These are integrating X-ray area detectors, based on the Rayonix high speed frame-shift CCD technology. LX-HS geometries allow the direct beam to pass, for simultaneous SAXS/WAXS data collection. For XFEL applications MX-HS detectors with a beam tunnel through the center of the imaging area allow beam diagnostics simultaneously with data collection. This configuration also eliminates the need for a beam stop in front of the detector. Rayonix is currently commercializing a new integrating pixel array X-ray detector with auto-gain-changing capability, based on the ePix10K ASIC invented by the SLAC detector group.</p>
<p>SAES 1122 E Cheyenne Mountain Blvd. Colorado Springs, CO 80906 Tel: 719-337-9175 https://www.saesgetters.com/</p> 	<p>SAES Group is the global leader in Non-Evaporable Getter (NEG) pumps and NEG coating used in various high, ultra-high, and extreme-high vacuum applications. From storage rings to front ends to experimental end stations, SAES NEG pumps and NEG coating provide compact and powerful discrete or distributed pumping solutions for synchrotrons around the world. With the advent of the ZAO getter material, SAES NEG pumps can also operate in high vacuum and particle sensitive applications, providing significantly higher pumping speeds and more capacity than other getter materials. Specifically, the ZAO getter pumps are used in particle sensitive applications, such as the warm sections between SRF cavities and mirror and monochromator chambers in beamlines. SAES Group offers many different pumping solutions for a wide range of synchrotron and accelerator applications. SAES Group's NEG coating, flangeless pumps mounted directly in chambers, and traditional CF flanged pumps have provided</p>

	<p>of pumping power for synchrotrons and accelerators worldwide for decades. SAES Group will continue this tradition of innovation in NEG coating and NEG pumps for decades to come.</p>
<p>Scientific Omicron, Inc. 3222 E 1st Ave. #521 Denver, CO 80206 Tel: 720-350-5000 https://scientaomicron.com</p> 	<p>Scientia Omicron is a leading innovator in Surface Science and Nanotechnology. At our technology centres in Uppsala, Sweden and Taunusstein, Germany we develop and produce high-tech instruments. Our instruments support top researchers globally and are serviced by our four regional hubs in USA, China, Japan and Germany. We provide state of the art instruments in Electron Spectroscopy (ARPES, XPS, AP-XPS, HAXPES), Scanning Probe Microscopy (STM, AFM, KPFM) and Thin Film Deposition (MBE, ALD, PVD Sputtering). Focusing on the race for new unique materials and solutions, in areas like – smarter batteries, next generation electronics, quantum technologies, solar energy, intelligent sensors and advanced materials, Scientia Omicron enables development of tomorrow's materials. Scientia Omicron offers a wide range of standard modular solutions and continuous access to new technologies through significant investments in R&D. Accelerate discovery of novel materials through integrated growth and analysis to speed sequential processes of materials development. Gain reliable results due to true UHV conditions at all times. A proven and effective approach for this research is to use Scientia Omicron 'Materials Innovation Platforms'.</p>
<p>SPECS-TII Inc. 20 Cabot Blvd., Suite 300 Mansfield, MA 02048 Tel: 508-618-1292 https://www.specs-group.com/</p> 	<p>SPECS-TII Inc. leads the way in state-of-the-art systems and components for surface analysis. We offer cutting-edge technology for ARPES, NAP/environmental XPS, UHV XPS, and LEEM/PEEM (SPECS), SPM / Quantum Transport Controllers (NANONIS), and UHV LT scanning probe microscopes (UNISOKU Co., Ltd).</p>
<p>Starrett Tru-Stone Technologies 1101 Prosper Drive Waite Park, MN 56387 Tel: 320-251-7171 https://www.tru-stone.com/</p> 	<p>For more than 60 years, Starrett Tru-Stone Technologies has been providing precision granite solutions out of our 130,000 sq. ft. facility in Waite Park, MN. A world leader in custom granite machine bases and assemblies, Tru-Stone serves a multitude of industries, both domestically and across the globe, including Argonne National Laboratory. Our talented design team, experienced production staff and cutting-edge machinery make it possible for us to take a complex concept and turn it into an accurate, stable turn-key solution clients can trust.</p>
<p>Surface Measurement Systems 2125 28th St., Unit 1 Allentown, PA 18103 Tel: 317-694-5445 https://www.surfacemeasurementsystems.com/</p> 	<p>Surface Measurement Systems specializes in developing instrumental techniques for materials research, with a particular focus on predicting solid phase interactions between drugs and excipients. This quantification enables direct predictions of product performance and processing behavior. Our expertise lies in studying the effects of gases and vapors on powders and solids under isothermal conditions, utilizing sensitive gravimetric or chromatographic techniques. Our Dynamic Vapour Sorption (DVS) analysis employs ambient gas flow conditions for conducting water or organic vapor adsorption experiments on solid-state materials. Additionally, our Inverse Gas Chromatography</p>

	(iGC) instrument offers unique capabilities for powder characterization, providing insights into surface energetics, acid-base properties, reversible and irreversible chemisorption, and more.
TDK Lambda Americas 405 Essex Road Neptune, NJ 07753 Tel: 732-795-4100 https://www.us.lambda.tdk.com/ 	TDK-Lambda Americas, Inc. is a leading manufacturer of high reliability Low/High Voltage Programmable DC and High Voltage Programmable Capacitor Charging power supplies and DC Electronic Loads. Programmable DC products include the Genesys™ Series, the GENESYS+™ Series, the ALE Series and the SFL Series. For more information, please visit https://www.us.lambda.tdk.com .
Teledyne Princeton Instruments 3660 Quakerbridge Road Trenton, NJ 08619 Tel: 609-587-9797 https://www.princetoninstruments.com/ 	Teledyne Princeton Instruments (TPI), a business unit of Teledyne Digital Imaging US, Inc, designs and manufactures high-performance CCD, sCMOS, ICCD, EMCCD, emICCD, and InGaAs cameras; spectrographs; and optics-based solutions for the scientific research, industrial imaging, and OEM communities. We take pride in partnering with our customers to solve their most challenging problems in unique, innovative ways.
Televac-The Fredericks Company 2400 Philmont Ave. Huntingdon Valley, PA 19006 Tel: 215-947-2500 https://www.frederickscompany.com/ 	The Televac brand of The Fredericks Company designs and manufactures vacuum sensors, gauges, and control instrumentation for the most demanding applications. We offer full range measurement solutions from 1E-11 Torr to 1E4 Torr, primarily based on thermocouple/convection/Pirani and cold cathode technology. Our industry-leading gauging is radiation resistant with high bakeout temperatures, and our 7FCS cold cathode has UHV quick start capability. Our controllers offer the most modern electronics and communications, and with our in-house ISO 17025 vacuum calibration accreditation, you'll know that you're receiving the most accurate measurements from our products. Televac guarantees customer satisfaction, and our "not too big, not too small" operation is what enables us to offer a true partnership experience. For over 85 years we've been working side-by-side with customers across the world in numerous industries and literally hundreds of applications, and we're ready to bring that experience to your next project. We develop high quality, cost-effective products to solve your most challenging design goals. Fredericks is proud to be a Women-Owned Small Business (WOSB) with ISO 9001:2015 certification and ISO 17025 accreditation for vacuum calibration, while also being registered with the U.S. State Department as ITAR compliant. All of our products are designed and manufactured at our facility in Huntingdon Valley, PA.
Tibidabo Scientific Industries 14 New Rd. Madison, CT 06443 203-484-2011 https://tibidaboscientific.com/	Tibidabo Scientific Industries leads the way in highly differentiated technology for scientific and medical research, life sciences, aerospace, defense and security, and industrial applications. A wide range of products including high-speed, high-performance, intensified cameras, vacuum based tubes and camera systems for photon detection, x-ray irradiation cabinets, phosphors and scintillators, and Laue diffraction systems enables

		<p>next-generation innovation. We succeed by helping customers push boundaries with cutting edge products and solutions that drive innovation for new and existing technologies.</p>
<p>Vacuum One 3717 N. Ravenswood, Suite 240 Chicago, IL 60613 Tel: 773-244-3102 https://www.vacuumone.com/</p> 		<p>Vacuum One represents.... * Edwards Vacuum* ANCORP * CTI-Cryogenics * MKS Instruments* Polycold* Gamma Vacuum* Veeco * Advanced Energy * Applied Thermal Control * ColdEdge Technologies* BriskHeat</p>
<p>VAT Group 655 River Oaks Pkwy. San Jose, CA 95134 Tel: 408-375-5567 https://www.vatvalve.com/</p> 		<p>Innovation and engineering excellence is the driving force behind VAT's technology solutions and services. A high degree of customization on any VAT product or service signifies our strong focus to provide customers solutions without compromise. Over the last 50 years this has earned us the world leading position in vacuum valves and related technologies. VAT's products and services are mainly required in semiconductor, display and solar panel manufacturing as well as in a wide range of industry and research applications that operate under special vacuum conditions.</p>
<p>XIA, LLC 2744 E 11th St., Ste. H2 Oakland, CA 94601 Tel: 510-401-5760 https://xia.com/</p> 		<p>XiA LLC invents, develops, and markets advanced digital data acquisition and processing systems for high-rate x-ray spectroscopy at synchrotron facilities and other radiation detector applications in university research, national laboratories, and industry. Our core technology of high-rate digital signal processing is applied to a diverse range of products from large multichannel systems to benchtop units and compact low power processor cards for handheld instrumentation. Our product features include high-rate elemental fast mapping, and data output rates more than 5 Mcps (FalconX). In addition to x-ray detector electronics, XIA offers a parallel product line of high-speed digital signal processors for gamma detectors used for spectroscopy, timing and coincidence measurements. XIA is based in Oakland, California, on the east side of San Francisco Bay. Our multi-lingual staff currently supports product sales in over 30 countries on six continents.</p>