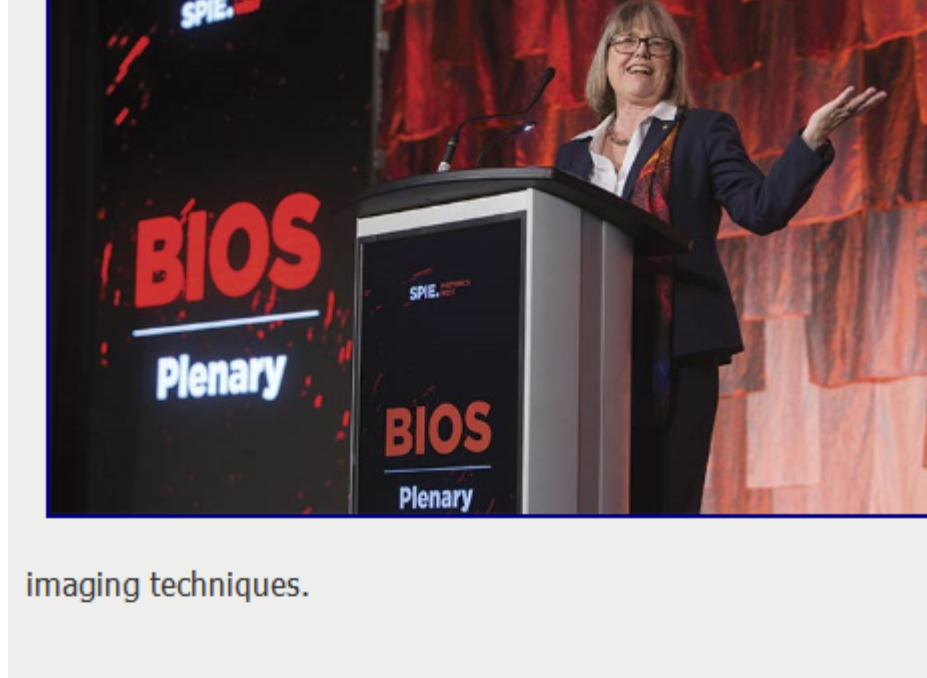




SPIE Photonics West 2020 – The Moscone Center - San Francisco

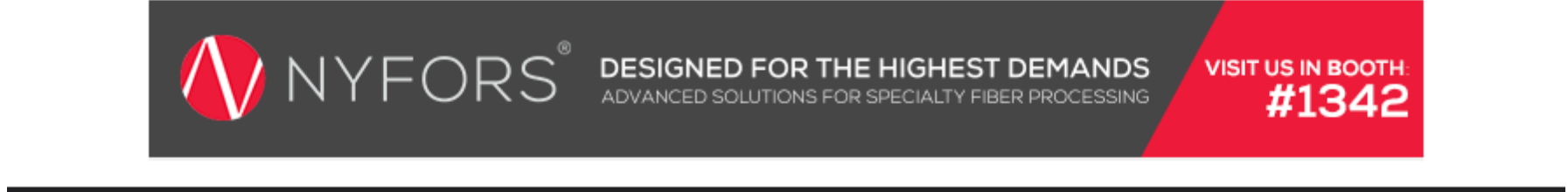
February 4-6, 2020
An advance look at the products, trends, and technologies being presented.



Imaging Technology, Experimentation Converge at SPIE BIOS

A host of researchers and industry experts will descend on SPIE BIOS 2020 in February to expound upon — and demonstrate — the ability of optical technologies to analyze, diagnose, and treat a multitude of medical conditions that clinicians grapple with every day. And while dermatology will be a component of this year's conference, innovations within the biophotonics sphere have proven to be more than just skin deep, providing key insights into areas such as cardiology, head and neck surgery, and drug treatment with the aid of the latest equipment in microscopy, spectroscopy, lasers, and other imaging techniques.

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Featured Exhibitors

Integrating Sphere Detectors

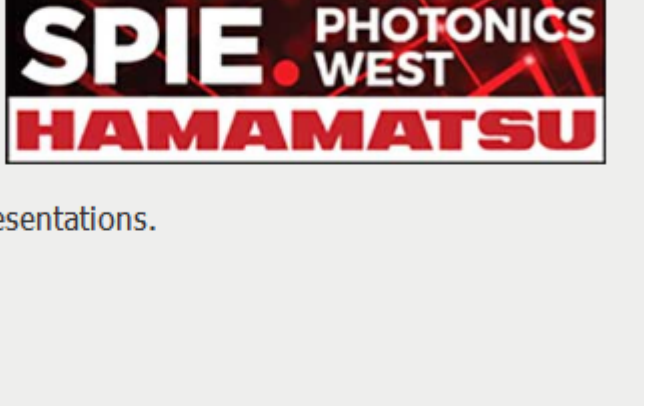
From: MKS/Newport
Integrating sphere detectors have a photodiode detector mounted on integrating spheres with various sizes and is calibrated as a system, compensating for the attenuation caused by the sphere. The input beam is diffused inside the sphere so that the measurements are less sensitive to errors caused by detector position and angle sensitivity, overfilling, and saturation, or the divergence angle and polarization of the input beam.



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Join Us For Free Workshops

From: Hamamatsu Corporation
Attending Photonics West 2020? Then join Hamamatsu's free workshops to learn about various topics including photodetectors, image sensors, spectrometers, light sources, mid-infrared technologies, automotive LIDAR, and the future of photon counting (SIPM and SPAD) technologies. Visit our Photonics West website to see the full schedule of our workshops and other presentations.



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Glass Processing and Automation

From: NYFORS Teknolog AB
The NYFORS SMARTSPLICER is a CO2 laser glass processing system designed for the production of high-power and sensitive photonics components. It offers contamination-free splicing and tapering, bundling, and many other glass shaping processes. NYFORS provides automated high precision solutions for fiber preparation such as stripping, cleaving, recoating, cleave quality inspection, proof testing, and analyzing. We also offer custom work cell automation solutions for quality splicing and preparation tasks.



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Microstage Has Controller Inside

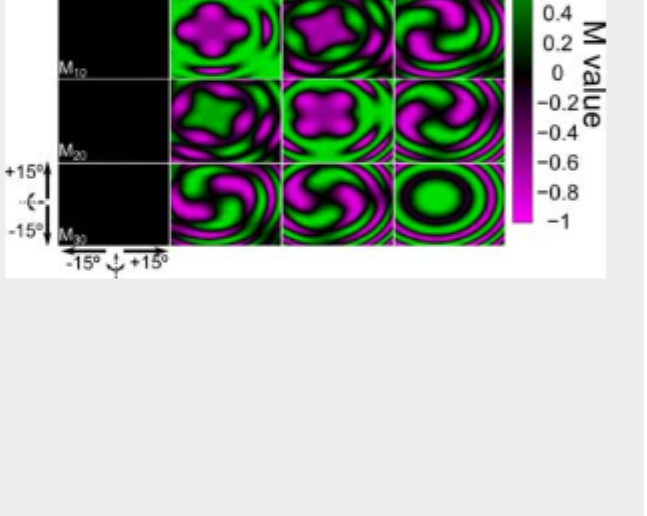
From: New Scale Technologies Inc.
Precision microstages have built-in controllers that plug-and-play with your system processor and 3-6 VDC power supply. No separate control board needed! You achieve the smallest system size, fastest time to market, and lowest total cost. M3 microstages are the easiest, most cost-effective way to embed precision motion into handheld and portable systems. Create smaller, more advanced microscopes, spectroscopy systems, imaging devices, and more. Embedded motion makes great products smaller!



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Exicor[®] XT Mueller Polarimeter

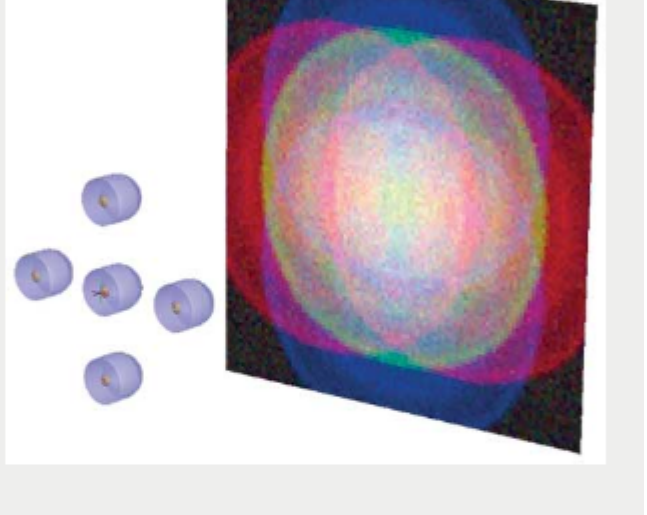
From: Hinds Instruments Inc.
Hinds Instruments introduces the latest Mueller Polarimeter. Applications include biological and nonbiological nanostructures, optics, crystals, flat panel display, and optical lithography research. Hinds' Exicor XT systems offer - Simultaneous measurements of all 16 Mueller matrix elements - Highest available sensitivity - Determination of all polarization parameters and estimation for depolarization - Minimal wavelength restrictions (DUV-IR) - Floor mount or bench top design, with flexible stages for adding custom part holders.



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FRED^{MPC}

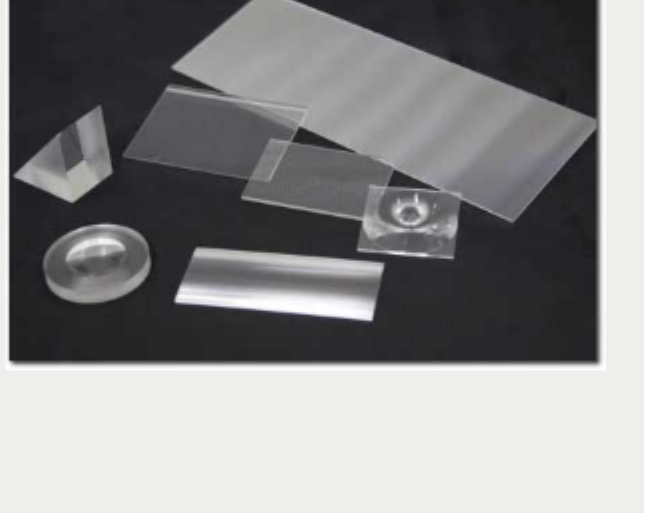
From: Photon Engineering LLC
Unleash your engineering creativity and inquisitive mind with FRED^{MPC}. Predict performance with higher confidence by tracing orders of magnitude, more rays, through your system. Experiment by varying more parameters to find the optimum hardware configuration. Ask more "What if...?" questions. Investigate a larger trade space in a fraction of the time. Run more analyses at higher fidelity than ever before. It's all possible with FRED^{MPC}.



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Ultra-precision Optics from Japan

From: NTKJ Co. Ltd. (Nihon Tokushu Kogaku Jushi)
NTKJ, the Japan-based lens manufacturer, specializes in ultra-precision machining, heat compression molding, and large lens manufacturing. Newly deployed Precitech/AMETEK's FreeformTL1000 (NTKJ's special) with pico resolution of 5+2 axis enhances NTKJ to manufacture ultra-precision optics. NTKJ's facility and 40 years' experience enables us to manufacture Germanium Fresnel, MLA, DOE, Freeform lenses and mirrors, elliptical Fresnel, and NTKJ's standard lenses. NTKJ boosts innovative optics R&D for industries such as lighting, imaging, sensing, medical, and aerospace.



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Precision Polymer Optics

From: GS Plastic Optics
Engineered for your success.

- Design for manufacturing
- Diamond turning
- Production injection molding
- Thin-film coatings on polymers
- Optical assemblies
- Complete metrology



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New Stainless Steel Mirror Mount

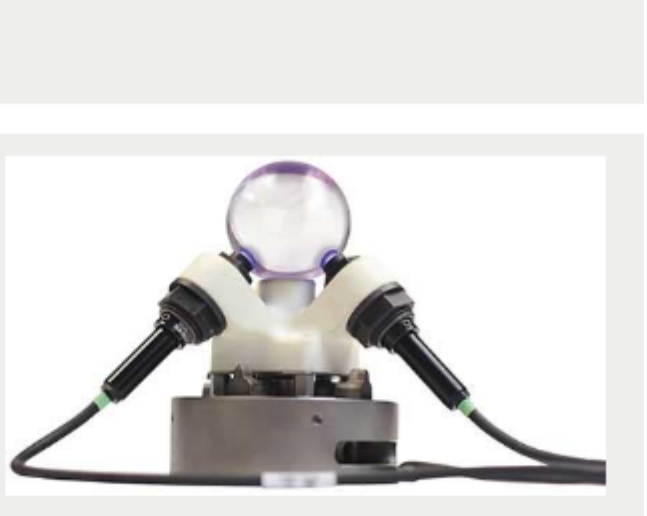
From: OptoSigma Corp.
OptoSigma's new 25.4-mm stainless steel mirror mount features a hollow-frame design to maximize stiffness and reduce mass. Thermal repeatability tests validate the effectiveness of new frame design showing lower deflection and equivalent repeatability against rival mounts. Additional features include center-post mounting, built-in dowel pin keys, and adhesive wells, all in the industry's most compact and affordable stainless steel mount.



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Blue Photon Workholding System

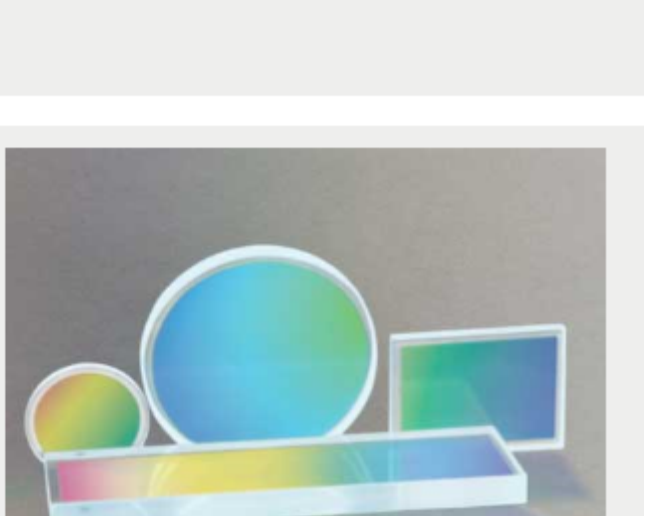
From: Blue Photon Technology & Workholding Systems LLC
Blue Photon's system is a patented, photo-activated adhesive workholding solution that improves quality, reduces waste, and saves on labor in applications that have traditionally challenged precision part manufacturers. The system is ideal for high tolerance machining, delicate part manufacturers. The materials, difficult-to-hold parts, near-net shaped parts, and automation. Blue Photon's workholding adhesive solution frees the workpiece from mechanical clamps and eliminates the need for resin and wax.



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Superior Transmission Gratings

From: Wasatch Photonics Inc.
Wasatch Photonics VPH transmission gratings offer consistently high efficiency and low polarization sensitivity over broad bandwidths. Our patented designs enable superior performance in OCT, spectroscopy, laser pulse compression, and astronomy. Choose from our many stock gratings, or let us create the perfect grating for your research or OEM needs. Our transmission gratings deliver quality and performance in a robust, easy-to-clean package — with options spanning 350-2000 nm and beyond.



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Meet the Editors

Photonics West
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