Issue # 3 Tuesday, January 28, 2020

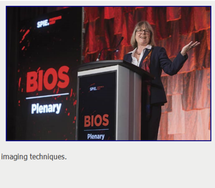
sneak PREVIEW

PHOTONICS MEDIA

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.

Read More

Featured Exhibitors

785 nm ESP for Raman by Cobolt

From: HÜBNER Photonics

HÜBNER Photonics proudly introduces the 08-NLDM 785 nm ESP (enhanced spectral purity) as part of the Cobolt 08-01 Series. The 08-NLDM 785 nm ESP complements the Cobolt 08-01 Series of compact high-performance single-frequency and narrow linewidth lasers for the high-resolution Raman market. The spectral purity of the 08-NLDM 785 nm ESP is >60 dB @ <0.5 nm away from the main peak. See the ESP @ BiOS 8229 @ PW 2249.

Visit us: Booth # 2249

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Specialty Fibers & Modulators

From: iXblue, Photonics

iXblue Photonics helps photonics engineers all around the world get the most out of light by providing high-performance, innovative, and reliable photonic solutions. The company offers specialty fibers, Bragg gratings, and optical modulation solutions based on its integrated modulators for a variety of applications: optical communications, fiber lasers and amplifiers, fiber optic sensors, space, and scientific research and development. Drop by our booth to discuss our dedicated solutions and custom designs.

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Piezo Nanopositioning Devices

From: Prior Scientific Inc.

Prior's Queensgate piezo nanopositioning devices and capacitive sensors deliver the highest performance in the market. Subnanometer resolution combined with extreme high speeds make them the positioners of choice for the most demanding applications. NanoScan OP400 Nanopositioning Piezo objective scanners provide the fastest step and settle time of any objective positioner available while the NanoScan-SP range of Piezo driven stages feature 400 µm and 600 µm closed loop Z travel versions.

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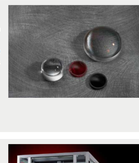
Modular Motion Control

From: Mad City Labs Inc.

Modular motion control from the micro to the picoscale. Piezoactuated closed loop nanopositioning systems equipped with proprietary Picod® sensors giving low noise and high precision performance. Stepper motor micropositioners designed specifically for use with nanopositioners that can be combined to form modular designs for a variety of applications in optical microscopy, inspection, and photonics. Examples of modular motion designs include video optical microscopes, atomic force microscopes, and DIY microscopes.



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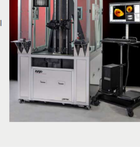
Molded Aspheric Polymer Lenses

From: Fresnel Technologies Inc.

Fresnel Technologies designs and manufactures orders large and small, from millions of parts to a single prototype. Our diamond-turning machines allow micro- and nanomachining of metal and polymer optics. We produce silicone lenses, microlens arrays, and AR/VR lenses. From conventional plastic lenses to freeform optics, from Fresnel lenses used in the visible spectrum, to passive IR optics for the Internet of Things, we make it all.



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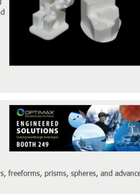
Spherical Optics Metrology

From: Zygo Corporation

ZYGO's new Verifire VTS™ (Vertical Test Stand) delivers robust and reliable metrology of spherical optics in production environments, enabling simple, precise, and automated radius of curvature metrology. Key features include programmable functionality with motorized 1 m travel Z-stage, and MX™ software with scripting capability. The ergonomic and ultra-stable mechanical design includes integrated vibration isolation and an optional environmental enclosure. The VTS is compatible with most 4- and 6-inch ZYGO interferometers.



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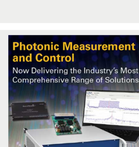
NEW 5 Axis CNC Machining

From: Valley Design Corp., Headquarters

Valley Design is excited to announce the acquisition of new 5 Axis Haas CNC equipment. This will greatly expand upon our existing 4 Axis CNC machining capabilities, and will significantly increase efficiency and improve accuracy and quality. Complex 3D parts can now be machined with confidence. Utilizing 5 Axis technology, features such as steps, slots, holes, channels, chamfers, pockets, counterbores, notches, and radii are now more readily producible.



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Engineered Solutions

From: Optimax Systems Inc.

Optimax is America's largest optics manufacturer. On the cutting edge of future applications, we implement an engineered solutions approach to help our customers achieve breakthroughs in the aerospace, defense, semiconductor, research, and medical industries. We offer a wide range of capabilities to support our customers' programs, including aspheres, cylinders, freeforms, prisms, spheres, and advanced e-beam, APS, IAD, and IBS coatings.

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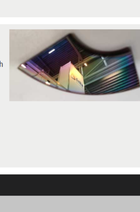
Photonic Measurement and Control

From: Luna Innovations Incorporated

Luna Innovations and General Photonics deliver the industry's most comprehensive range of solutions for fiber optic testing, delivering unprecedented insight into optical component performance and unmatched manufacturing test speed. In addition, OEM modules and components provide a complete solution for polarization measurement and control with flexible emulation and analysis.



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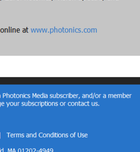
Ultra Reliable Fiber Optics

From: G&H

G&H's fiber optics now includes Gould Fiber Optics. We design, engineer, and manufacture in the USA and UK, active and passive components and subsystems for deployment in harsh environments or when total reliability is needed. Customers in the aerospace and defense (including space), industrial and telecom, and biomedical sectors rely on us for critical products for applications including avionic and space comms, lidar, navigation, ophthalmological and cardiological OCT, and sensing.



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Circular Variable Filters

From: Delta Optical Thin Film A/S

Circular Variable Filters are interference narrow bandpass filters which are deposited on circular substrates. Film thickness, and therefore the wavelength of peak transmittance varies linearly and continuously with angular position on the segment. They are ideally suited as monochromators in compact, nondispersive spectrometers or with supercontinuum lasers, providing medium spectral resolution. They can be manufactured in any wavelength range from 400 nm up to 14.3 µm in the infrared.

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