# PHOTONICS













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Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue.

## E PHOTONICS MEDIA EDITORS Pushing the Limits of Interferometric Testing

Saturday Jan 27, 2018 3:00 p.m. Booth 8735

BIOS

3:00 p.m. Booth 846-847

PHOTONICS WEST

Tuesday Jan 30, 2018

### million independent surface image points per second in phase-shifting

mode, the latest in laser interferometer instrumentation delivers extreme levels of surface characterization. By comparison, the first phase-shifting interferometers in the 1970s measured at a rate of only 512 points per second. These advances in surface visualization capability coincide with ever-increasing metrology requirements. Read Article

Polymer optics are one of the cornerstones of photonics, driving the

innovation necessary to meet the requirements for ever-smaller

structured surfaces today can be found in many areas including

Laser interferometers have come a long way in the last 40 years. At 76

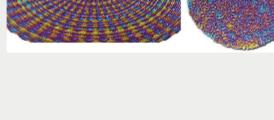






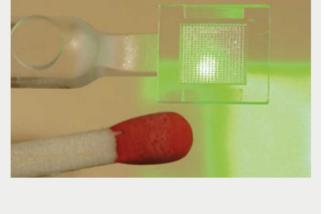
Fabricating Precise Polymer Optics





#### installation spaces and significant weight savings, all while achieving a higher image quality. The miniaturization of optics using micro-

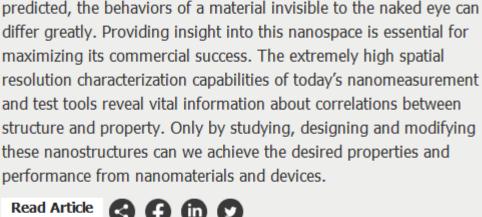
smartphones, LED lighting and consumer electronics, where these attributes are particularly important. Read Article (4) (in (5) Optical Techniques Tackle Nanoscale











Materials at the nanoscale can behave in surprising ways.

While the properties of macro materials can often be





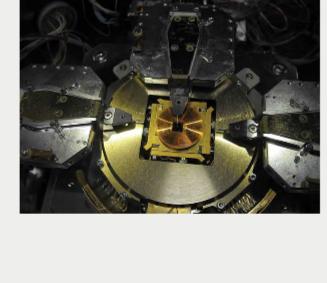




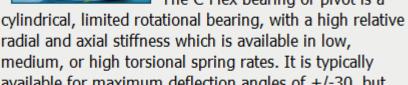




Pivot Bearings

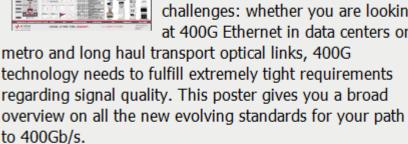


#### C-Flex Bearing Co. Inc. The C-Flex bearing or pivot is a



#### available for maximum deflection angles of +/-30, but

various configurations are supplied upon request. Visit Website Request Info sponsors



challenges: whether you are looking at 400G Ethernet in data centers or

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#### metro and long haul transport optical links, 400G technology needs to fulfill extremely tight requirements

400G has new physical design

KeysightTechnologies

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#### Collaborations have announced the detection of the bright spark of two neutron stars colliding. This event has been dubbed GW170817 because it sent ripples through space-time that reached Earth on



NIRS and Chemometrics Offer Insights Into Earth's Surface

surface. 

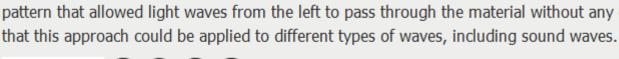
chemometric calibrations, such as partial least squares regression, enable quantitative mapping of the properties of Earth's

When applied to hyperspectral remote sensing images, the techniques of near-IR spectroscopy and multivariate

In a novel approach to cloaking technology, researchers irradiated an opaque material from above, using a specific wave pattern that allowed light waves from the left to pass through the material without any obstruction. The researchers believe

Stars

August 17, 2017.







provides high-resolution diagnostic images in minutes without causing damage to fragile tissue samples. Presenter Richard Levenson, M.D.,

FCAP, will discuss the development of the MUSE microscope and demonstrate its use. Researchers, scientists and clinicians who are

Cloaking Approach Prevents Light Scattering in Opaque Objects

**Webinars** The MUSE Microscope for Advancing Light Microscopy

Tue, Jan 16, 2018 1:00 PM - 2:00 PM EST This webinar will introduce microscopy with UV surface excitation (MUSE), a fluorescence-based, slide-free optical imaging system that

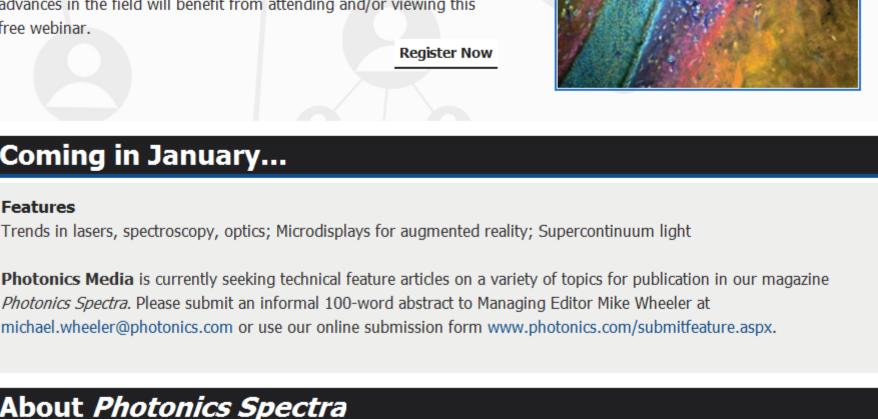
#### interested in learning about novel forms of microscopy and recent advances in the field will benefit from attending and/or viewing this free webinar.

**Coming in January...** Features Trends in lasers, spectroscopy, optics; Microdisplays for augmented reality; Supercontinuum light

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