

Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue. Manage your Photonics Media membership at Photonics.com/subscribe.









### footprint and weight of optical systems and assemblies, further fueling

Polymer Optics Target Complex Imaging Systems

the demand for polymer optics in end uses in which these characteristics are important, such as in autonomous imaging, wearables, head-mounted displays, multicamera arrays, and point-ofcare medical devices, among many other applications. Read Article

Polymer optics, also known as plastic optics, are ideal for reducing the

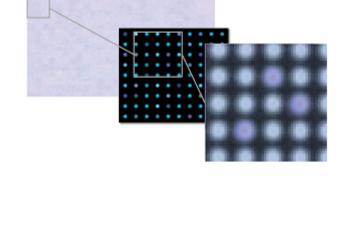


## Way, way more pixels." The display industry has more than risen to

Pixel Correction Advances Next-Generation Displays

In 2017, Clay Bavor, then vice president of Google's AR/VR division, spoke for all AR/VR device makers when he said, "We need pixels.

that challenge in the subsequent years, offering new products today such as 4K, 8K, and ultra-HD screens — that offer many more pixels per inch (PPI). Pixel sizes have been shrinking along with pixel pitch (the distance between pixels) to deliver increasingly high-resolution displays. Read Article



## technique can overcome many of the limitations of traditional

Multifield Imaging Enhances Detectability at Speed Multifield imaging is a new imaging technique that enables the simultaneous capture of multiple images under various lighting

approaches. Read Article .: Featured Products & Services

conditions. Coupled with time delay integration, this emerging imaging

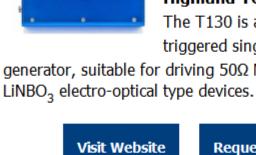


## Highland Technology Inc.

The T130 is an externally-

T130 Single-Channel

Picosecond EOM



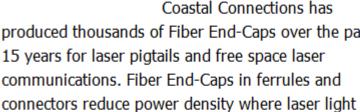
triggered single-channel pulse generator, suitable for driving 50Ω Mach-Zehnder

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Systems

Fast Gantry Positioning

PI (Physik Instrumente)



produced thousands of Fiber End-Caps over the past 15 years for laser pigtails and free space laser

Fiber End-Caps for Longer

Coastal Connections

enters or exits SM or PM fibers extending the cable's life. PER and NA are mostly maintained making incorporation into existing system easy. Visit Website Request Info

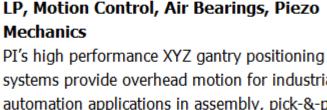
Life

Components

Applied Image Inc.

Precision-imaged optical

Precision-Imaged



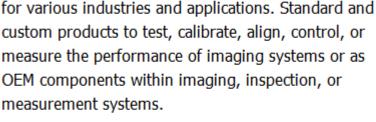
systems provide overhead motion for industrial automation applications in assembly, pick-&-place,

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laser processing, alignment, inspection, and 3D

printing. The gantries are manufactured in the USA

by PI's air bearing and precision motion division.



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components, calibration standards, and photomasks

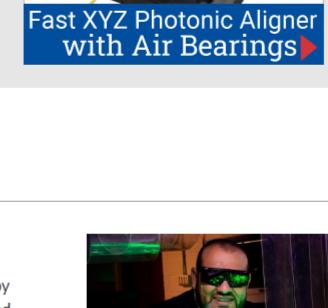


 $\mathbf{PI}$ 



what they said are previously unattainable data transfer speeds from an

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sensing, self-driving cars, and high-speed communication.

optical switching mechanism.

Ultrafast Beam-Steering Achieved for Incoherent Light A research team at Sandia National Laboratories has demonstrated a technique that dynamically steers light pulses from

NASA Proposes Use of Lasers to Clear and Nudge Orbital Debris

According to NASA, orbital debris is an increasingly serious issue that could impede access to space and complicate communication satellite operations, astronaut safety, and more, particularly with the advent of satellite constellation networks. These networks are affected by existing orbital debris — and can create or become orbital debris themselves. Read Article conventional incoherent light sources. The ability to control incoherent light with a semiconductor device could allow lowpower, low-cost sources such as LEDs or flashlight bulbs to replace laser beams in technologies such as holograms, remote

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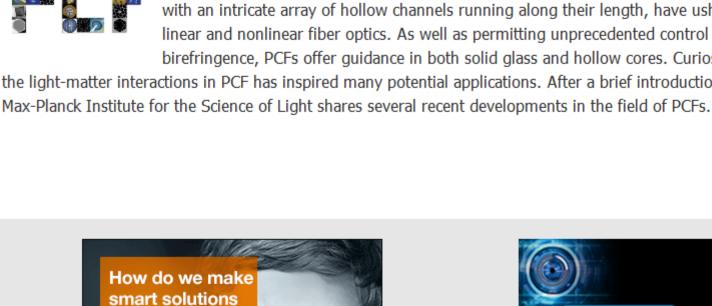
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Register at displayweek.org

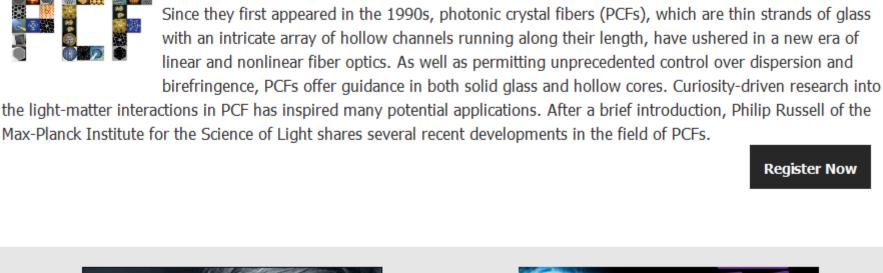
Photonic Crystal Fibers: Three Decades of Novel Science

Thu, Jun 1, 2023 10:00 AM - 11:00 AM EDT

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machine vision

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of tomorrow,

today?

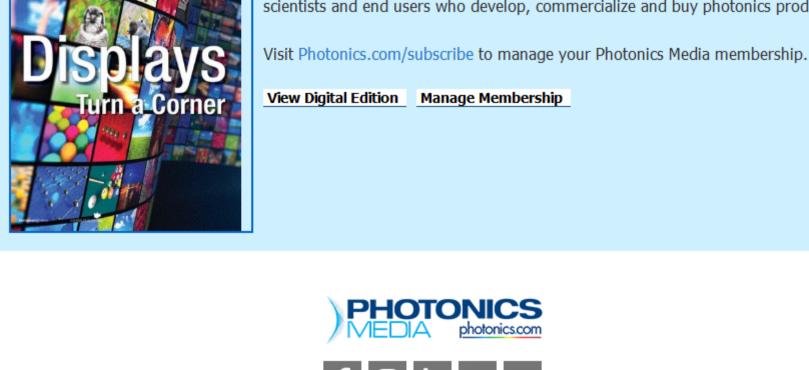
Photonics Spectra. Please submit an informal 100-word abstract to Daniel McCarthy, Senior Editor, at

automatica

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