



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](http://Photonics.com/subscribe).



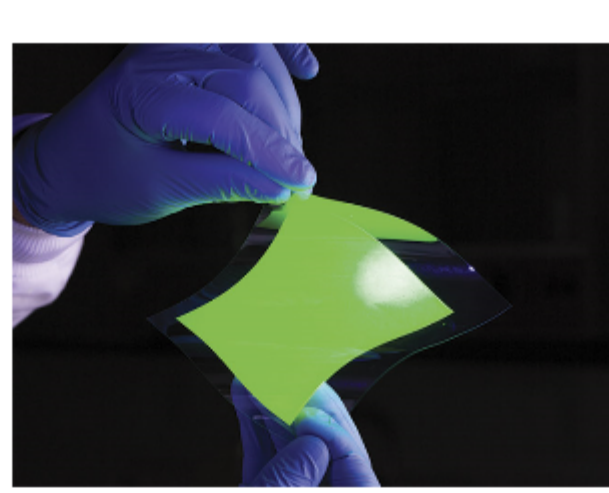
**IQ Lab™ Services Expand Options for Stray Light and Temperature Lens Testing**

- Veiling Glare Index
- Glare Spread Function
- Image quality metrics over temperature



**Hybrid Photonics Expands Capabilities**

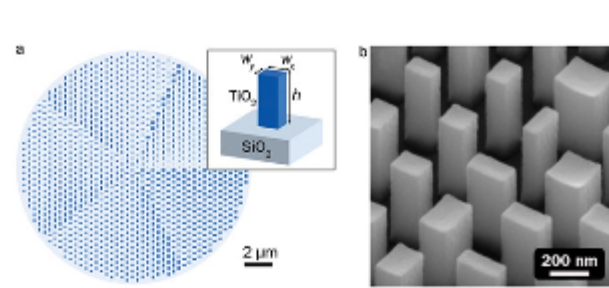
Alone, nothing is perfect. So when various materials in photonics applications work in tandem, a better performing hybrid approach arises, and teamwork prevails. Examples of such hybrid photonics can be found in existing and emerging commercial products. However, to successfully compete with incumbent technologies, hybrids must integrate different materials and simultaneously achieve required performance and reliability.



[Read Article](#)

**Supertwisted Light from a Metasurface Laser**

Structured light refers to the tailoring or shaping of light in all its degrees of freedom. The recent development of structured light supports applications such as optical communications, enhanced resolution in imaging, and optical trapping and tweezing. Chiral light is foremost among the family of structured light fields that carries spin angular momentum ( $\pm\hbar$  per photon, depending on the handedness) and orbital angular momentum.



[Read Article](#)

**The Laser Turns 60**

Six decades ago, in a windowless lab on a hilltop above the Pacific Ocean, Theodore (Ted) Maiman — assisted by Irnee D'Haenens — tested a palm-size device that would upend the scientific establishment. Working at Hughes Research Lab (now HRL Laboratories and formerly the research arm of Hughes Aircraft Co.) in Malibu, Calif., Maiman had built the prototype in less than nine months with a paltry budget of \$50,000. It was a fraction of what his competitors working on well-funded projects worldwide at powerhouse facilities had to accomplish the same task, which was to build the world's first laser.



[Read Article](#)

**.: Featured Products**



**IQ Lab™ Temperature Testing for Automotive Lenses**

**Optikos Corporation**

Optikos IQ Lab™ Services offers lens testing over extended temperature ranges. IQ Lab temperature testing services are especially valuable for automotive lens manufacturers and integrators, whose applications have stringent performance and athermalization requirements to meet safety standards for camera image quality....

[Visit Website](#)

[Request Info](#)



**Kentek's Livestream Laser Safety Officer Course!**

**Kentek Corp.**

Kentek's Livestream Laser Safety Officer course is delivered over 5-weeks using Zoom. The sessions are 2-days a week (Tuesdays & Thursdays) for 2-hours a day (1pm-3pm EST). Zoom is a web-based video conferencing that can be used on a desktop, laptop, or mobile device.

[Visit Website](#)

[Request Info](#)

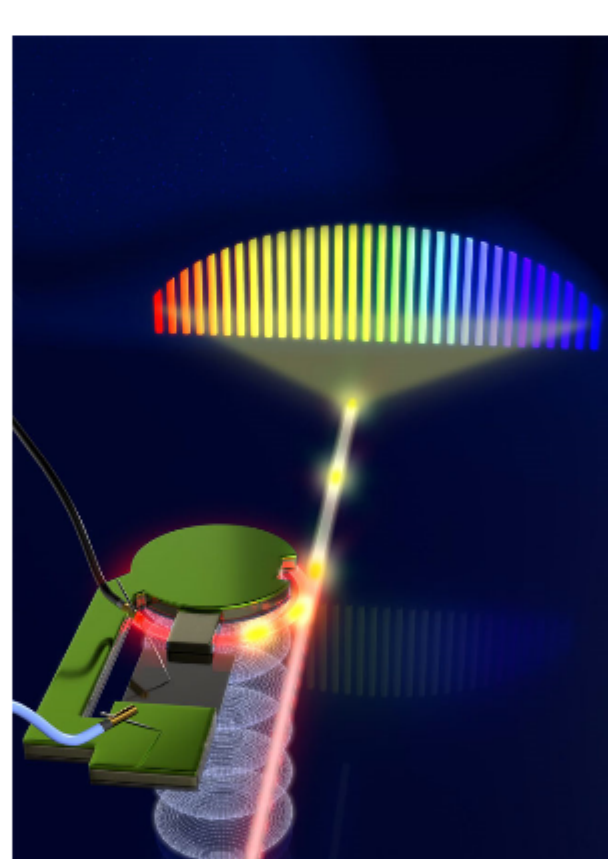


**.: In Case You Missed It**

**Ultralow-Loss Integrated Photonics for Lidar**

Researchers at École Polytechnique Fédérale de Lausanne and Purdue University demonstrated a hybrid approach to on-chip acousto-optic modulation by combining piezoelectric aluminium nitride technology with ultralow-loss silicon nitride integrated photonics.

[Read Article](#)



**Researchers Build Chip-Size Particle Accelerator**

Scientists at Stanford University and the SLAC National Accelerator Laboratory have created a silicon chip that can accelerate electrons using an infrared laser to deliver, at less than a hair's width, the sort of energy boost that takes microwaves several feet.

[Read Article](#)

**Photoluminescence Techniques Map, Measure Semiconductor Thermal Conductivity**

A joint research group has developed two new optical techniques — photoluminescence mapping (PL-mapping) and time-domain thermo-photoluminescence (TDTP) — that provide rapid, nondestructive characterization of  $k$  in materials and that require minimal sample preparation.

[Read Article](#)

**.: Upcoming Webinars**



**Principles and Applications of Light and Color Measurement**

Wed, Aug 19, 2020 1:00 PM - 2:00 PM EDT

The properties of light that stimulate the eye and build our visual perception also guide the design of illuminated devices. In this webinar, the presenters will explain how manufacturers and light sources technology to best assess the visual quality of displays, backlight components, and light sources — as they are actually seen and experienced by users. Presented by Radiant Vision Systems.

[Register Now](#)

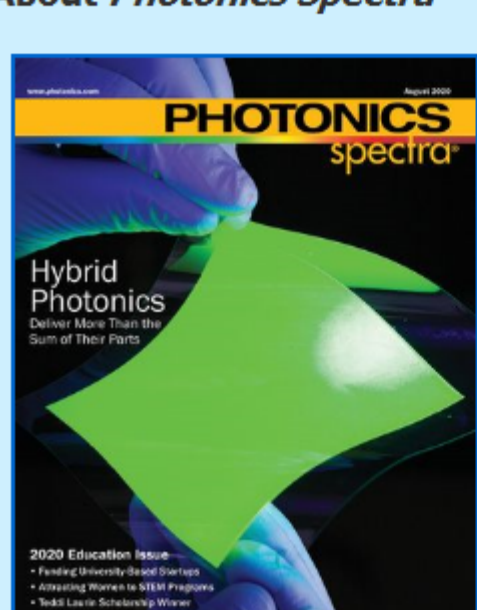
**.: Next issue:**

**Features**

Laser Bonding for Displays, Quantum Sensing, Drone Cinematography, and more.

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazine *Photonics Spectra*. Please submit an informal 100-word abstract to Daniel McCarthy, Senior Editor, at [Daniel.McCarthy@Photonics.com](mailto:Daniel.McCarthy@Photonics.com), or use our online submission form [www.photonics.com/submitfeature.aspx](http://www.photonics.com/submitfeature.aspx).

**About Photonics Spectra**



Since 1967, *Photonics Spectra* magazine has defined the science and industry of photonics, providing both technical and practical information for every aspect of the global industry and promoting an international dialogue among the engineers, scientists and end users who develop, commercialize and buy photonics products.

Visit [Photonics.com/subscribe](http://Photonics.com/subscribe) to manage your Photonics Media membership.

[View Digital Edition](#)

[Manage Membership](#)



We respect your time and privacy. You are receiving this email because you are a Photonics Media subscriber, and/or a member of our website, Photonics.com. You may use the links below to manage your subscriptions or contact us.

Questions: [info@photonics.com](mailto:info@photonics.com)

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949  
 © 1996 - 2020 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office.  
 Reproduction in whole or in part without permission is prohibited.

