

# This Week in PHOTONICS



**Vision Spectra**  
CONFERENCE  
July 19-21, 2022

Discover new and evolving trends in machine vision.  
More than 30 presenters!

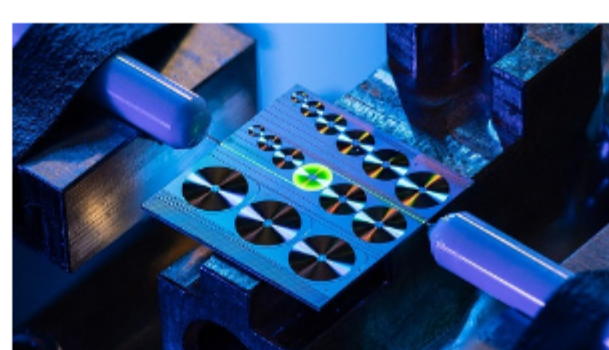
#VSC2022  
Register for FREE

## Top Stories

### Rare-Earth Ion Shows Promise as Gain Media for Integrated Photonics

In an advancement that supports the possibility of a shift from electronics to faster, photonics-based chip technologies, researchers at École polytechnique fédérale de Lausanne (EPFL) fabricated an erbium-doped waveguide amplifier on a compact photonic chip using erbium ion implantation and a silicon nitride PIC.

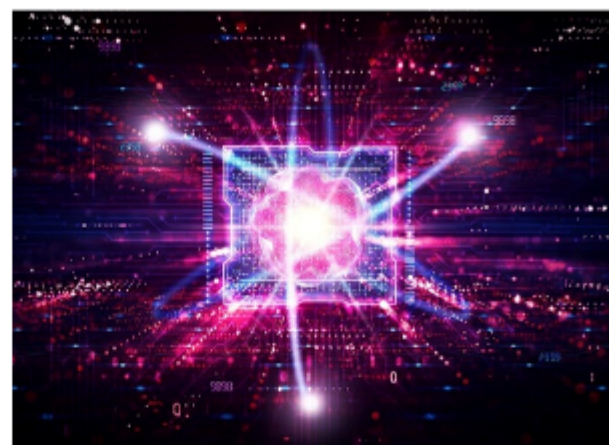
[Read Article](#)



### PHOQUSING Project Yields Largest Photonic Processor to Date

As part of the European Union (EU) funded PHOQUSING project, quantum technology startup company QuiX Quantum has created what is reportedly the largest quantum photonic processor to date, compatible with quantum dots. The processor is the central component of the quantum sampling machine, a near-term quantum computing device able to show a quantum advantage, and one of the primary goals of the PHOQUSING project.

[Read Article](#)



### BlueHalo Awarded Two AFRL Contracts

BlueHalo has been awarded two contracts by the Air Force Research Laboratory (AFRL), one for optical laser communications and one for a directed-energy modeling and simulations virtual range.

[Read Article](#)



Learn How To  
**Build Better Optical Designs, Faster**

Upgrade to **CODE V®**

[REQUEST TRIAL](#)

**SYNOPSYS®**

**READY? STEADY. GO!!!**

**uEye XC**  
13 MP AUTOFOCUS-CAMERA

**iDS**

## Featured Products & Services

[LightTools SOLIDWORKS Link Module](#)

**Synopsys Inc., Optical**

#### Solutions Group

Synopsys LightTools® software provides comprehensive workflows for illumination optics design. Features include interoperability with SOLIDWORKS for dynamic, efficient optomechanical modeling. Read the Synopsys blog article to learn about the latest SOLIDWORKS Link Module innovations.

[Visit Website](#)

[Request Info](#)



[ACM-AUTO/ Warning Light Controller](#)

**Kentek Corp.**

The ACM-AUTO™ Automated Laser Safety Sign Controller allows automatic control of one or more 12V DC powered devices, triggered by the ampere draw of the laser. This device is used to power one or more single-status signs when the connected laser draws current removing the need for a manual switch to control the sign(s) status.

[Visit Website](#)

[Request Info](#)

**Northrop Grumman SYNOPTICS**

**Now Offers IBS Coatings**

**NYFORS®**

**ADVANCED LASER FUSION SPLICING AND GLASS PROCESSING**

[LEARN MORE](#)

## More News

[LASER World of PHOTONICS and automatica to Be Co-Located](#) [Read Article](#)

[Microarray Formation Maximizes Quantum Dot Color Conversion](#) [Read Article](#)

[On-Chip Deep Neural Network Detects and Classifies Images in an Instant](#) [Read Article](#)

[European Initiative Moves to Introduce Standardizations for Diffuse Optics](#) [Read Article](#)

[Ultrafast Photonic Computing Processor Uses Polarization](#) [Read Article](#)

Sensing is life

**Sensors Converge 2022**

Visit us to experience our portfolio covering a broad range of applications and advanced technological solutions.

We add intelligence to light and passion to innovation, enriching our lives.

[Visit us](#)

**amli OSRAM**

**STAY UP TO DATE**  
with the Industry's Leading Content

## Upcoming Webinars

### Wavelength-Selective Optical Filters: Providing More Signal and Less Background to PCR Instruments

Thu, Jul 7, 2022 1:00 PM - 2:00 PM EDT

Engineers creating polymerase chain reaction (PCR) instrumentation face unique challenges in both qualitative detection of nucleic acid sequences, using end-point analysis and quantitative detection of nucleic acid sequences, using real-time analysis. Quantitative PCR (qPCR) instruments that operate in real time require a favorable signal-to-noise ratio, combined with high sensitivity. Jason Palidwar of Iridian Spectral Technologies shares the role photonics and optical filters play in qPCR instruments along with the challenges presented by their specification, design, and manufacture.

[Register Now](#)



#### CALL FOR ARTICLES!

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *BioPhotonics*, and *Vision Spectra*). Please submit an informal 100-word abstract to [editorial@Photonics.com](mailto:editorial@Photonics.com), or use our [online submission form](#).



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 - 2022 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.

