

This Week in PHOTONICS

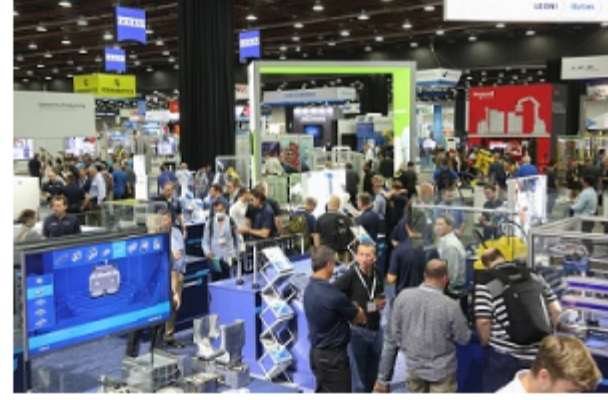


:: Top Stories

On Day One of 2023 Show, A3 Makes Automate an Annual Showcase

Automate — the largest robotics and automation trade show in North America — will return in 2024 and continue as an annual event. McCormick Place in Chicago will host next year's event May 6-9, 2024. The show will then return to Detroit, the site of this year's show, May 12-15, 2025.

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Cell Manipulation Technique Enters Commercial Market

A laser technology developed at the Max Planck Institute of Molecular Cell Biology and Genetics makes it possible to influence and specifically control movements within living cells and embryos. The technology, called Focused Light-Induced Cytoplasmic Streaming (FLUCS), can be used to help better understand embryonic developmental disorders. The technology has been licensed by Rapp OptoElectronic, a photomanipulation and illumination systems developer.

[Cell Manipulation Technique Enters Commercial Market](#)

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PhotonDelta and Research Partner Apply Integrated Photonics to Agrifood

PhotonDelta and OnePlanet Research Center have launched the Integrated Photonics for Agrifood roadmap. The roadmap, according to PhotonDelta, lays out the future of sustainable food production and distribution using photonic microchip technology.

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:: Featured Products & Services



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Edison Opto USA Corp.

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AT - Automation Technology GmbH

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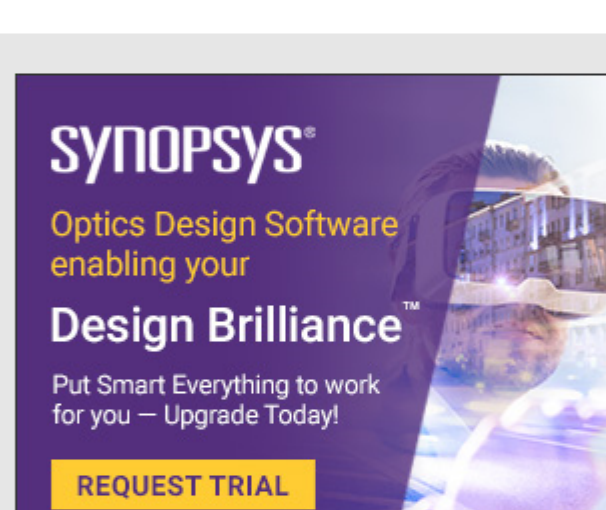
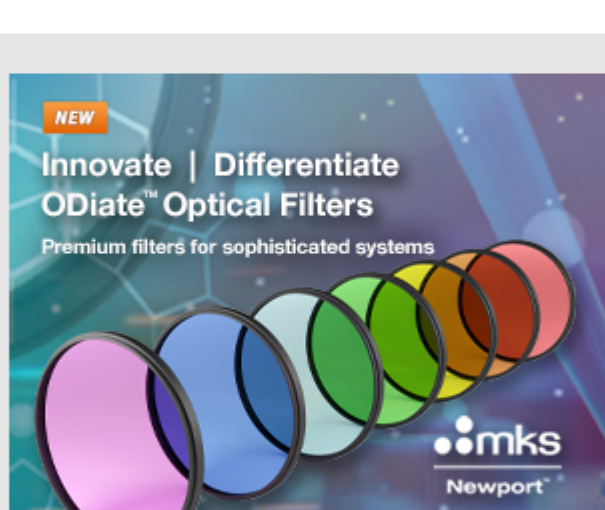
New ITALA® Cameras by Opto Engineering

Opto Engineering S.p.A.

Opto Engineering introduces ITALA: the new industrial GigE Vision POE area scan cameras designed and manufactured in Italy.

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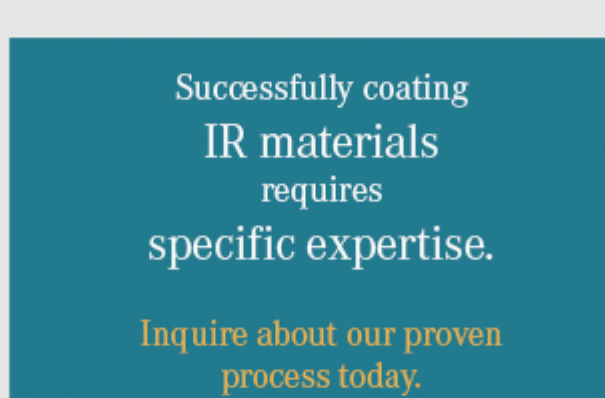
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:: Upcoming Webinars



STOP Analysis with COMSOL Multiphysics®

Wed, May 31, 2023 2:00 PM - 3:00 PM EDT

Optical systems often need to operate in harsh environments, including high altitudes, in space, and under water, where they are subjected to structural loads and extreme temperatures. Similarly, optical devices in high-powered laser and nuclear applications are also subjected to extreme conditions. The most accurate way to fully capture these environmental effects is through numerical simulation using structural-thermal-optical performance (STOP) analysis. This is a quintessential multiphysics problem. With STOP analysis, thermal expansion and the refractive index distribution can be fully coupled with changes to the ray optics trajectories, which is essential for laser-based manufacturing and the like. This presentation shares how to use COMSOL Multiphysics® and the Ray Optics Module to combine ray tracing simulations with structural and thermal analyses to form fully self-consistent STOP models. Presented by COMSOL.

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Photonic Crystal Fibers: Three Decades of Novel Science

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

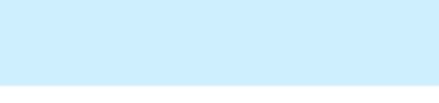
Since they first appeared in the 1990s, photonic crystal fibers (PCFs), which are thin strands of glass with an intricate array of hollow channels running along their length, have ushered in a new era of linear and nonlinear fiber optics. As well as permitting unprecedented control over dispersion and birefringence, PCFs offer guidance in both solid glass and hollow cores. Curiosity-driven research into the light-matter interactions in PCF has inspired many potential applications. After a brief introduction, Philip Russell of the Max-Planck Institute for the Science of Light shares several recent developments in the field of PCFs.

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