

# This Week in PHOTONICS



Optimizing Ultrafast Laser Micromachining. **Precisely.**

## :: Top Stories

### Malley Richardson Awarded 2023 Teddi C. Laurin Scholarship for Research in Optofluidics

Malley Richardson, a mechanical engineering student at the University of British Columbia (UBC), has been awarded the 2023 Teddi C. Laurin Scholarship for her contributions to the field of optics and photonics. Richardson is actively engaged in optofluidics R&D and is working to develop optofluidic sensors for the health sector. Her areas of interest include the development of lab-on-a-chip instrumentation and organ-on-a-chip technologies.

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### NIH Grant Funds Wearable Brain-Imaging Tech

Researchers at Washington University in St. Louis are developing an alternative to the current gold standard of brain imaging, functional magnetic resonance imaging (fMRI). The researchers' technology would allow subjects to move freely while high-resolution images of the brain are generated using light-based technology.

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### Inspection Technology Incorporates AI to Detect Defects in Real Time

Researchers at the Fraunhofer Institute for Material and Beam Technology IWS (Fraunhofer IWS) have developed a solution that uses AI and optical measurement technology to detect, classify, and visualize defects in real time, and report them to the plant carrying out the production.

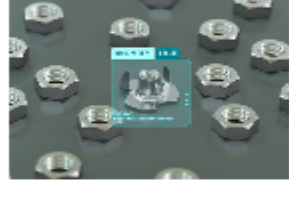
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## :: Featured Products & Services



### How to Detect Anomalies with Intelligent Industrial Cameras

**IDS Imaging**

#### Development Systems GmbH

How can a camera be taught to reliably detect deviations from the norm if they are not or not completely predictable? Rule-based image processing would have to capitulate – with the AI system IDS NXT, on the other hand, such a challenge can be easily solved from now on.

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## :: Upcoming Webinars

**Fused Silica Tubes for Optical Fiber Manufacturing: Fiber Performance Sensitivity on Purity and Tube Geometry**  
Wed, Jun 14, 2023 1:00 PM - 2:00 PM EDT  
This presentation discusses the manufacturing processes for fused silica tubes used in optical fiber production. Peter Bauer from Heraeus Conamic highlights the factors influencing purity and geometry of these tubes and how they impact the final fiber performance. Impurities can cause attenuation and reduced mechanical strength and cannot be eliminated in later production steps. Tube geometry is also crucial, as variations can cause beam distortion or miss alignments during fiber splicing. Presented by Heraeus Conamic.

[Register Now](#)

**Revolutionizing Infrared Detection: Five Key Advantages of InAs and InAsSb-Based Detectors for Unmatched Performance**  
Thu, Jun 22, 2023 10:00 AM - 11:00 AM EDT  
Lukasz Kubiszyn of VIGO Photonics covers many of the key advancements in InAs and InAsSb based detection for mid-wave IR and long-wave IR for applications spanning from environmental monitoring to spectroscopy. These advancements are creating lower cost options without sacrificing the detectivity and sensitivity that MCT detectors have offered for many years. In addition, Kubiszyn highlights some of the unique attributes that are opening new applications for detection and analysis technologies around the world. Presented by VIGO Photonics

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