

# This Week in PHOTONICS

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A sub-picometer resolution spectrometer in a compact package.

## :: Top Stories

### Scientists Apply Raman Spectroscopy to COVID-19 Testing

A Northern Arizona University (NAU) research team, led by professor Miguel José Yacamán, is developing a new test technology for SARS-CoV-2 using single-molecule surface-enhanced Raman spectroscopy (SM-SERS).

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### Exclusive Interview with New Coherent CEO Andy Mattes and COO Mark Sobey, Part 2

Coherent's new CEO, Andy Mattes, and COO Mark Sobey granted Photonics Media an exclusive interview to discuss, among a variety of subjects, the company's response to COVID-19, their unique working dynamic, and gaining market share in the near future.

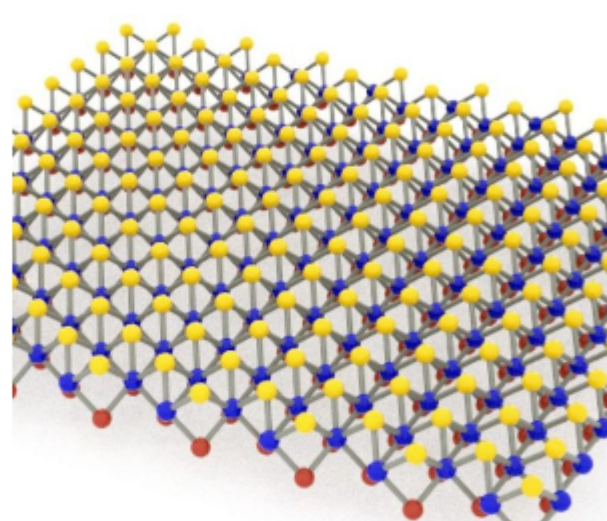
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### Engineers Adapt 2D Sandwich for Surface-Enhanced Raman Spectroscopy

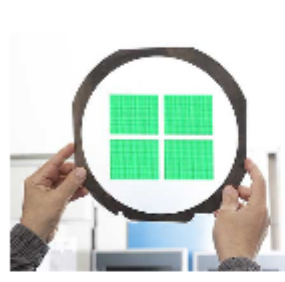
Tests at Rice University's Brown School of Engineering of a two-dimensional Janus compound showed it could be an effective and universal platform for improving the detection of biomolecules via surface-enhanced Raman spectroscopy (SERS).

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## :: Featured Products

### [Optical Filters for Point of Care](#)



#### Delta Optical Thin Film A/S

Point of Care (PoC) instruments have various uses in medical diagnostics, including the detection of infectious diseases such as Covid-19. Our optical filters are all designed for the next generation of PoC instruments and they have been used in clinical applications in the biotech, biomedical, and drug discovery sectors.

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### [IDS NXT ocean: AI for Vision Tasks](#)

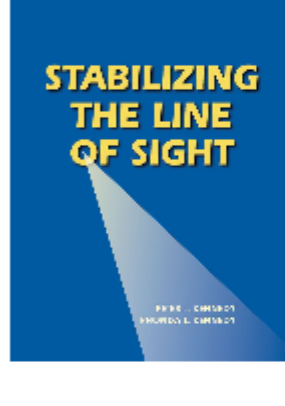
#### IDS Imaging Development Systems GmbH

Grab – label – train – run AI. IDS NXT ocean is an all-in-one system which allows to create individual neural networks and realize AI-based vision tasks. There is no need for deep learning or programming skills!

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### [Stabilizing the Line of Sight](#)



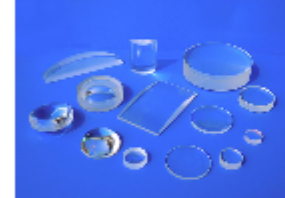
#### Photonics Media

In *Stabilizing the Line of Sight*, authors Peter J. and Rhonda L. Kennedy provide a methodology and an example for executing a successful end-to-end line-of-sight

(LOS) design. Comprehensive in scope, this book will give readers a better understanding of the relationships between the various engineering disciplines that are required for successful LOS control.

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### [High Quality Customized and Standard Optical Lenses](#)

#### CeNing Optics Co. Ltd.

CeNing Optics has been producing high-quality optical lenses since 2004. With a variety of manufacturing facilities, and an experienced and skillful team, we can produce lenses from 3.0 mm to 300 mm diameter range. The lenses can be with common and special curvatures like plano-convex, plano-concave, Bi-concave, Bi-convex, and meniscus.

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## :: Upcoming Webinars

### Upgrade Your Fiber Optic Diagnostics with Portable Ultra-High Resolution Optical Backscatter Reflectometry

Tue, Jun 2, 2020 1:00 PM - 2:00 PM EDT

This webinar, presented by Luna Innovations Inc., will explain how optical backscatter reflectometry (OBR) technology can locate and analyze issues and defects in fiber optic assemblies with submillimeter technology, and make very precise measurements of fiber optic latency and length.

Fiber optic networks are increasingly deployed in challenging locations and environments. This webinar will introduce and demonstrate a new, portable, and rugged OBR.

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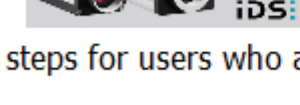
### Simplifying AI in Machine Vision with IDS NXT Ocean

Tue, May 26, 2020 1:00 PM - 2:00 PM EDT

This webinar, presented by IDS Imaging Development Systems, will help familiarize end users, machine builders, and systems integrators with the world of AI in machine vision. The talk will cover convolutional neural networks (CNNs) and how they are used in machine vision, the key steps to

deploying AI into machine vision solutions, and how the IDS NXT ocean platform has simplified these steps for users who are not AI specialists.

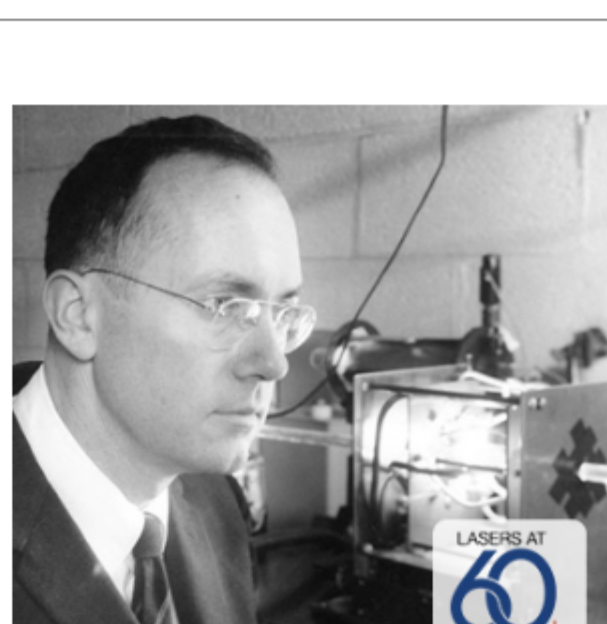
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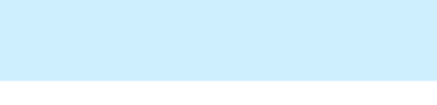
## :: All Things Photonics

In this week's episode of *All Things Photonics*, Charles H. Townes biographer, Charles Petit, discusses the inventor of the laser, their relationship, and the legal battle that took place. Also, Andy Mattes, Coherent's new CEO, talks plans for the company's future amid a pandemic.

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