

# This Week in PHOTONICS



**LightMachinery**  
Excellence in Lasers and Optics

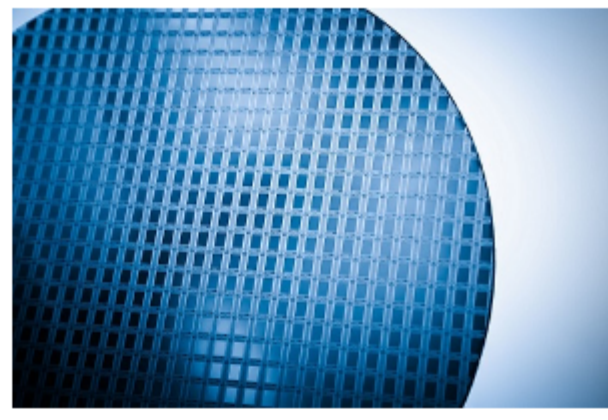


**Hyperfine Spectrometer**  
A sub-picometer resolution spectrometer in a compact package.

## :: Top Stories

### GlobalFoundries Debuts Fotonix Platform Amid Slew of Collaborations

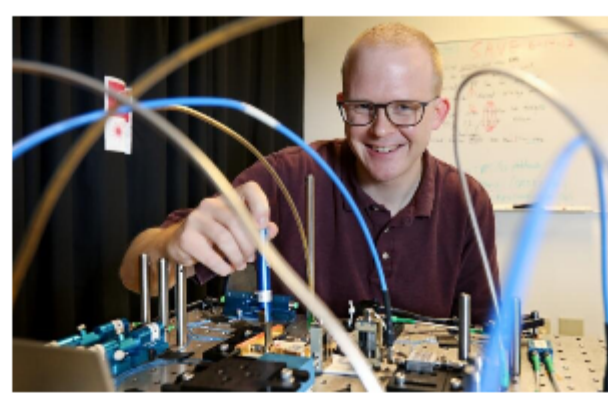
Concurrent with the introduction of its GF Fotonix silicon photonics platform, GlobalFoundries announced several high-profile collaborations with the potential to significantly boost the platform's market reach. The platform enables the combination of 300-mm photonics features and 300-GHz-class RF-CMOS on a silicon wafer at scale.



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### Bell State Analyzer Brings Quantum Internet Closer

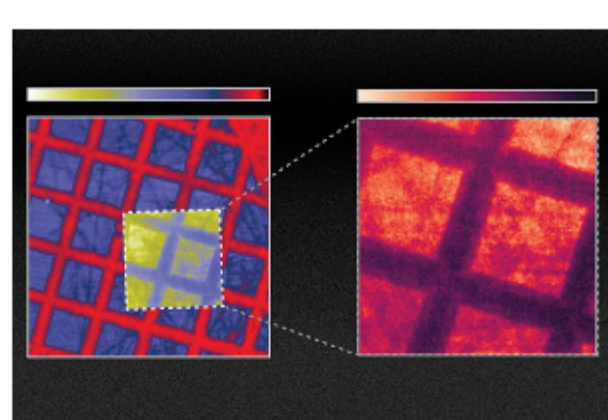
Collaborators from industry and academia — researchers at the Department of Energy's Oak Ridge National Laboratory (ORNL), Freedom Photonics, and Purdue University — have made strides toward a fully quantum internet. The collaborators have designed and demonstrated what they report is the first Bell state analyzer for frequency bin coding.



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### Nanophotonic Scintillators Grant Tenfold Enhancement in X-Ray Signal

Researchers at MIT have shown that scintillators, materials that emit light when bombarded with high-energy particles or x-rays, can be improved by at least tenfold, and potentially even a hundredfold, by modifying their surface to create nanoscale configurations such as arrays of wave-like ridges.



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## :: Featured Products



### Update: AI Vision System from IDS

**IDS Imaging Development Systems**

GmbH

IDS NXT ocean is an AI vision system that requires no prior knowledge of Deep Learning or camera programming. A free software update now brings many new features, including a free trial month for the AI training software.

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### A High-speed Camera Packed with Features

**AOS Technologies AG**

L-VIT Platinum - A high-speed camera with all features! A compact high resolution high-speed video camera with 1920 x 1080 pixels at up to 2500 fps.

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### The World's Smallest SMD Laser Module

**LECC TECHNOLOGY Co. Ltd.**

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## :: Upcoming Webinars



### Emerging Technologies Changing Ophthalmology Access and Point of Care

Thu, Mar 17, 2022 10:00 AM - 11:00 AM EDT

This webinar — for those interested in visual optics, ophthalmology, and biomedical devices — introduces five technologies that are using optics, photonics, or imaging to redefine how patients are served along the point-of-care continuum, from diagnosis and treatment to surgical selection and correction. It also showcases how technologies are being applied to make tools more mobile and accessible, minimize workflows, and reduce the risks associated with COVID-19 to significantly improve both the patients' and the practitioners' experience. Presented by Luminat.

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