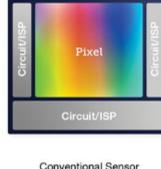
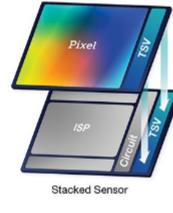


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# meadowlark optics polarization gratings Get the Details





### Innovation Era

CMOS manufacturing has undergone a significant

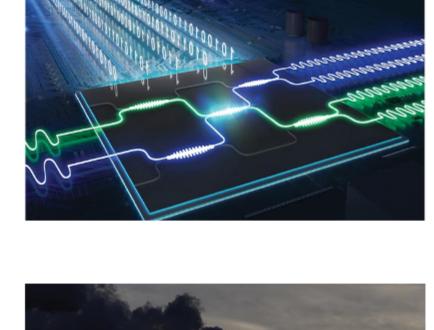
3D-Stacked CMOS Sparks Imaging's

transformation in the last 12 months. The manufacturing processes that even seasoned developers regarded as fundamentally experimental 20, or even 10, years ago have come within reach of enabling an entirely new set of commercial applications. These breakthroughs, such as 3D stacking, are emerging in addition to the applications that

industry innovators have already demonstrated owing to advancements in CMOS manufacturing processes. Read Article

Centers

**Analysis** 



### At a system architecture level, software-defined networking has transformed data center management in the last decade, decoupling the control plane element from the data plane

Orchestrates Light in Future Data

Software-Defined Photonics

element. The flexibility in this design innovation enables dynamic traffic routing, network adjustments, and resource allocation — all through software control. Read Article A Quantum Leap for Sensitive Gas



<mark>16.</mark> Optatec Internationale Fachmesse

### Far above an oil pipeline, a drone bobs and weaves. The drone, dispatched by Denver, Colorado-based Project Canary, is collecting high-resolution imaging data of the site, while also

scanning for any indications that the pipeline is leaking methane. Methane is a potent greenhouse gas, and Project Canary cofounder and co-CEO Will Foiles saw a valuable opportunity to act against climate change by giving oil and gas facilities the ability to quickly detect and prevent its release

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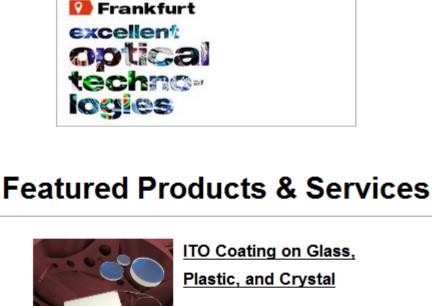
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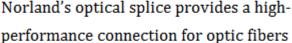
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INSTRUMENTATION

Gratings

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positive or negative order, based on the handedness

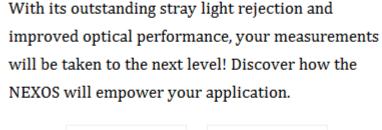
of the incident light. By incorporating fast electro-

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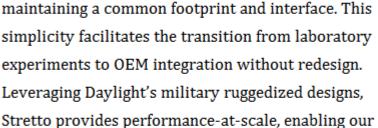
quantum information science applications, Stretto

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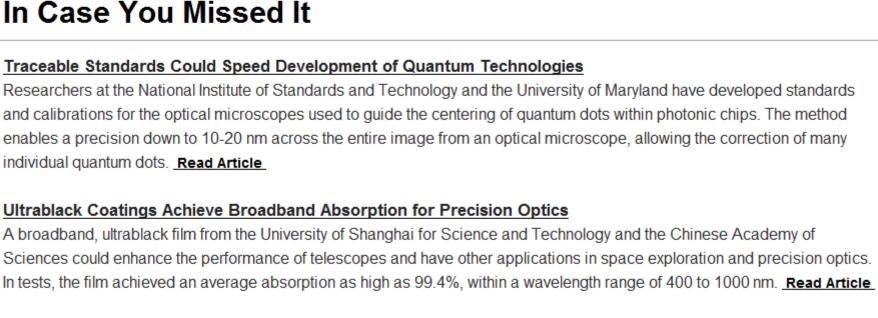
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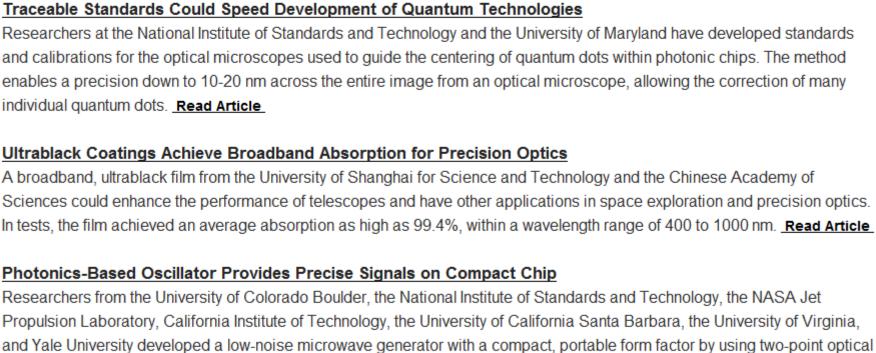
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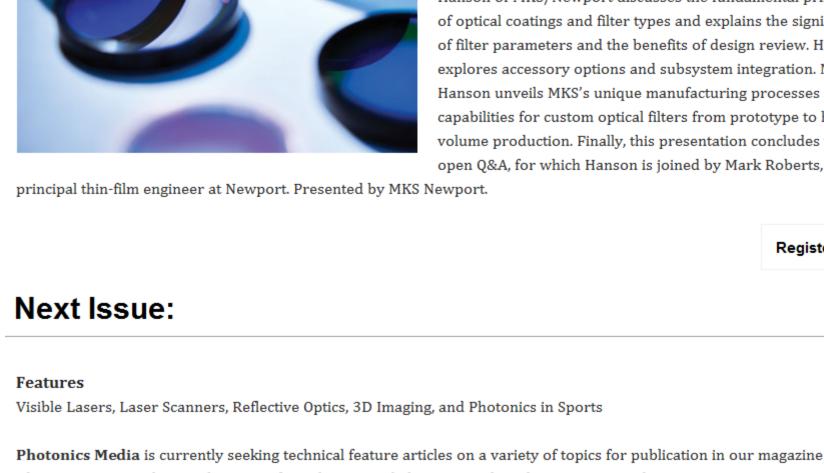
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frequency division, a technique for developing high-performance signal sources, with integrated photonic components.



Optical Filters: Application and Design Considerations Tue, Apr 23, 2024 1:00 PM - 2:00 PM EDT Optical filters can discretely transmit or reject specific wavelengths or ranges of wavelengths of light. Utilizing this capability in photonics-based instruments creates the need for a better understanding of optical filter design considerations and how specifications influence performance and cost. Craig Hanson of MKS/Newport discusses the fundamental principles

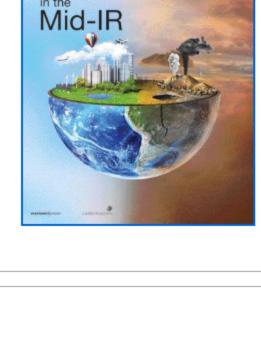
of optical coatings and filter types and explains the significance of filter parameters and the benefits of design review. He also explores accessory options and subsystem integration. Next Hanson unveils MKS's unique manufacturing processes and capabilities for custom optical filters from prototype to highvolume production. Finally, this presentation concludes with an

open Q&A, for which Hanson is joined by Mark Roberts,

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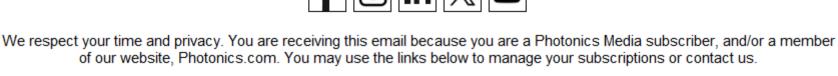
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