



Weekly News



Chip-Based 3D Printer for Prototyping on the Go

Teams at MIT and the University of Texas at Austin have fabricated a proof-of-concept chip-based 3D printer. The device, which is small enough to fit on a U.S. quarter, consists of a single millimeter-scale photonic chip that emits reconfigurable beams of light into a well of resin that cures into a solid shape when light strikes it. [Read Article](#)



Erbium Laser Miniaturized to Chip-Scale

At the crossroads of growing demand for fiber lasers and chip-scale lasers, researchers at École Polytechnique Fédérale de Lausanne have developed a chip-integrated erbium-doped waveguide laser that approaches the performance of fiber-based lasers. It combines wide wavelength tunability with the practicality of chip-scale photonic integration. [Read Article](#)



Photonic Insulator Offers Platform for Study of Light-Matter Interaction

A polariton lattice that behaves like a photonic topological insulator, developed by a research team at Rensselaer Polytechnic Institute, could make it easier for scientists to study the topological effects of nonlinear behavior in light-matter interactions. [Read Article](#)



Featured Products & Services



Custom WL Selective Optical Filters

Iridian Spectral Technologies

Iridian Spectral Technologies designs and manufactures wavelength selective optical filter solutions from the UV to LWIR providing "more signal, less background", customized to meet the technical and commercial needs of OEM customers in applications such as communications, spectroscopy, bio-analysis, and remote sensing.

[Visit Website](#)

[Request Info](#)



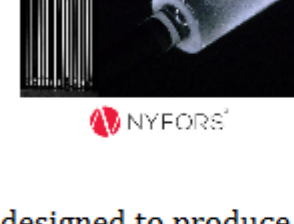
Control Boost for pE-800 Series

CoolLED Ltd.

CoolLED's popular 8-channel pE-800 Series microscope illuminators (and its customizable OEM versions) can now be operated seamlessly via RS-232, expanding the range of available control options.

[Visit Website](#)

[Request Info](#)



CO₂ Laser Glass-Processing

NYFORS Teknologi AB

CO₂ laser glass-processing is

designed to produce high-power and sensitive photonic components and complex structures. It guarantees contamination-free processing for fiber linear, 2D and gapless array splicing, ball lensing, end-capping, and many other challenging processes. NYFORS also manufactures automated high-precision solutions for fiber preparation, such as stripping, cleaving, recoating, and end-face inspection. NYFORS offers custom workcell automation solutions.

[Visit Website](#)

[Request Info](#)



Diffraction Gratings for Telecommunication

CASTECH INC.

CASTECH's high DE

reflection grating is ideal for WSS and other applications in the optical communication industry. The high-precision design of the grating provides outstanding diffraction efficiency and perfect uniformity.

[Visit Website](#)

[Request Info](#)

Looking for something else? Check the Photonics Marketplace.



More News

[Optogenetic Stimulation Enables Fatigue-Resistant Muscle Control](#)

[Omega Optical Names CEO](#)

[Quandela Launches Pilot Line for Qubit Devices](#)

[Atom Computing Lands Investment, Expands Overseas](#)



Latest Webinars

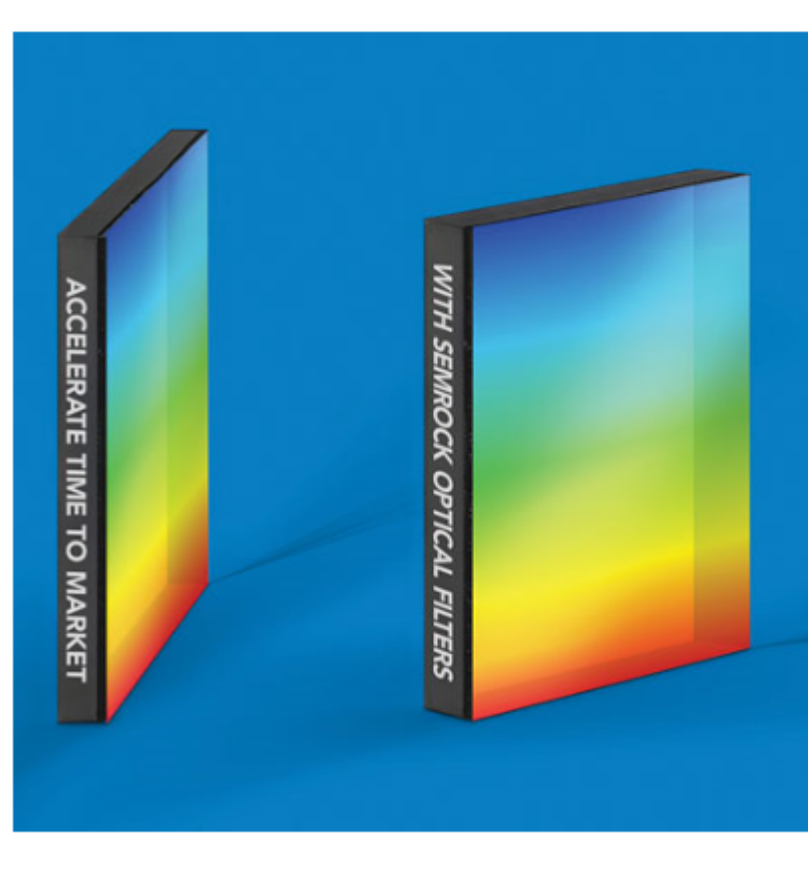


High-Performance PDH Locking with Reconfigurable Instrumentation

Tue, Jun 18, 2024 11:00 AM - 12:00 PM EDT

The Pound-Drever-Hall (PDH) method is ubiquitous in fields requiring laser frequency stabilization, including atomic physics, spectroscopy, and precision measurement. However, since PDH systems are traditionally assembled manually from various components, they often present challenges for researchers due to time constraints and adaptability issues, leading to maintenance difficulties and signal distortion. In this presentation, Liquid Instruments provides a pedagogical introduction to the PDH technique and creates a system using reconfigurable, FPGA-based instrumentation. They combine multiple instruments, including the Moku Laser Lock Box, into a bespoke environment that emulates a real optical system. Presented by Liquid Instruments.

[Register Now](#)



Accelerating Time-to-Market with Semrock Optical Filters

Thu, Jun 20, 2024 1:00 PM - 2:00 PM EDT

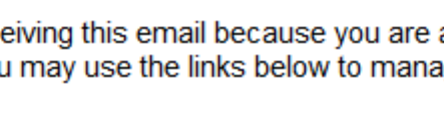
In this webinar, Elizabeth Bernhardt from IDEX Health & Science illustrates how the Semrock suite of tools accelerates prototyping timelines. First, she demonstrates the free SearchLight spectral modeling analysis tool, which saves prototyping hours and quickly calculates different filter options. After spectral modeling, she shows how to move straight to the lab using the ready-to-ship Semrock optical filter catalog. With more than 850 optical filters, testing and optimizing optical filters has never been easier. Finally, she presents why engaging with IDEX Health & Science's team of filter experts sets instruments apart. Leveraging extensive industry experience and granting access to thousands of coating recipes, IDEX Health & Science provides key assistance in optimizing filter selection,

including advising on custom coating run considerations and cost optimization. With their commitment to shorter lead times and a dedicated team, they customize optical filters suited to specific applications. Attendees are empowered to use Semrock tools and optical filters to accelerate time-to-market. Presented by IDEX Health & Science.

[Register Now](#)

Call for Articles

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *BioPhotonics*, and *Vision Spectra*). Please submit an informal 100-word abstract to editorial@Photonics.com, or use our [online submission form](#).



We respect your time and privacy. You are receiving this email because you are a Photonics Media subscriber, and/or a member of our website, Photonics.com. You may use the links below to manage your subscriptions or contact us.

Questions: info@photonics.com

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949
© 1996 - 2024 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.



LAURIN PUBLISHING