

# This Week in PHOTONICS



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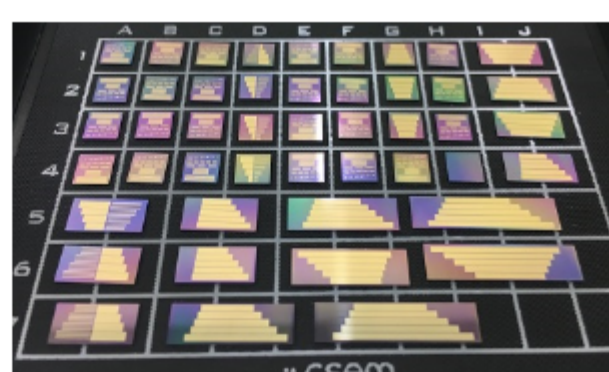


## Top Stories

### European Lithium Niobate Photonics Initiative Launches

The ELENA project ("European electro-optic and nonlinear PIC platform based on lithium niobate"), a part of the European Commission's Horizon 2020 program, held its kickoff meeting Feb. 10 and 11. ELENA seeks to develop what it said will be the first European lithium niobate on insulator (LNOI)-based-platform for PICs using an all-European supply chain.

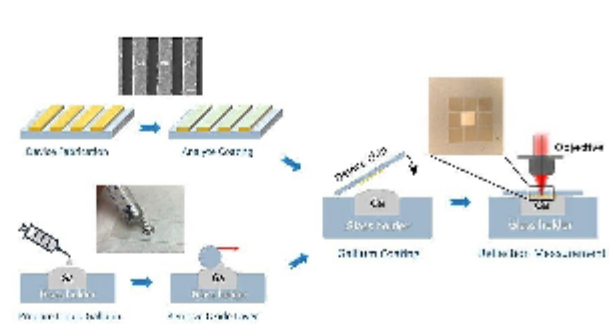
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### Reusable Sensor Deploys Nano Antenna for Diagnosis

A tiny, reusable sensing chip developed by University of Buffalo researchers could lead to new point-of-care medical tests. The sensor uses surface-enhanced infrared absorption (SEIRA) spectroscopy, with technology that is based on nanostructures that are nearly as small as the biological and chemical molecules they aim to detect.

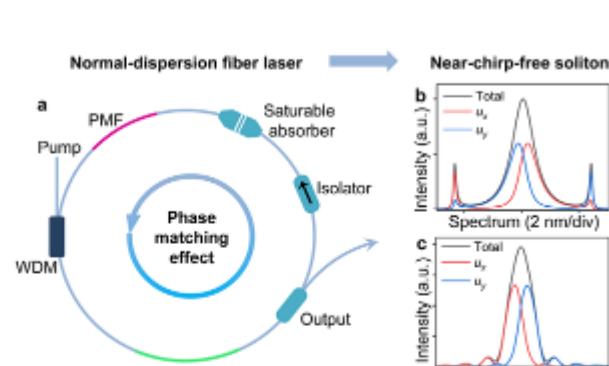
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### Polarization-Maintaining Fiber Enables Near-Chirp-Free Pulses

A team at Northwestern Polytechnical University (China) has demonstrated near-chirp-free solitons in normal-dispersion, hybrid-structure fiber lasers that contain a few meters of polarization-maintaining fiber. The solitons typically have a bandwidth and duration of 0.74 nm and 1.95 ps, respectively.

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## Featured Products



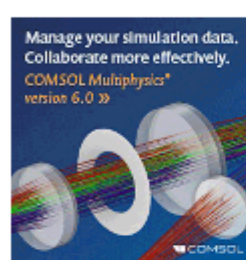
### 871 Series Laser Wavelength Meter

**Bristol Instruments Inc.**

Bristol's popular 871 system measures laser wavelength at a sustained rate of 1 kHz, the fastest available. It also measures wavelength to an accuracy as high as  $\pm 0.0001$  nm. By combining proven Fizeau etalon technology with automatic calibration, the most reliable accuracy is ensured for the most meaningful experimental results.

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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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## All Things Photonics

2022 SPIE Startup Challenge winner VitreaLab's glass-based waveguides are innovating the lighting and displays sector. Company CEO **Jonas Zeuner** details VitreaLab's laser writing technology and what it means for liquid crystal displays. In a preview of an upcoming episode, University of California, Santa Barbara scientist **Joel Rothman** discusses the biological implications of a directed energy interstellar project that proposes to launch invertebrate organisms into and beyond the depths of the galaxy. Plus, can goldfish be taught to drive?

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