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Cradle Turns Smartphone into Biosensor

A unique cradle and app for the iPhone use the phone's own camera and processing power to create a handheld biosensor capable of detecting any kind of biological molecules or cells. "We're interested in biotechnology that needs to be performed outside of the laboratory," said team leader Brian Cunningham, a professor of electrical and computer engineering and of bioengineering at the University of Illinois. "Smartphones are making a big impact on our society — and they have really powerful computing capability and imaging. A lot of medical conditions might be monitored very inexpensively and noninvasively using mobile platforms like phones."

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Photonics Societies Launch National Initiative

A partnership of photonics societies — The American Physical Society, IEEE Photonics Society, Laser Institute of America (LIA), The Optical Society (OSA) and SPIE — announced the collaboration, which is an alliance seeking to unite experts from industry, academia and the government to advance photonics R&D, to grow the US economy, and to improve national security.

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Laser-Printed Air Tube Saves Baby's Life

A 20-month-old boy can now breathe easy thanks to a 3-D-laser-printed tracheal splint implant developed at the University of Michigan.

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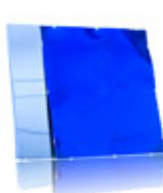
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PowerPhotonic Opens Base in North America

The laser micro-optics maker opened a customer and technical support center in Pleasanton, Calif., to strengthen its relationship with ITAR-compliant businesses.

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Spray-On Flat Lens Works in the UV

A metamaterial-based flat lens that's easy to fabricate and that can bend and focus UV light could improve photolithography, nanoscale manipulation and manufacturing, and even high-resolution 3-D imaging, say scientists at the National Institute of Standards and Technology.

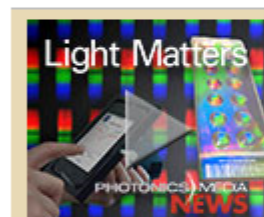
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University of Eastern Finland Opens Photonics Institute

A new Institute of Photonics launched at the Faculty of Science and Forestry of the University of Eastern Finland aims to enhance education and research in photonics and to promote international collaboration.

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On this edition of the industry's premier weekly newscast: A spray-on flat lens works in the ultraviolet, a smartphone camera becomes a high-resolution spectrophotometer, and a boson-based laser could require a fraction of the power of conventional lasers. Hosted by Photonics Media's Laura Marshall and Melinda Rose.

Clemson's Optical Center Builds on Nufern Partnership

Clemson University's Center for Optical Materials Science and Engineering Technologies (COMSET), a longtime Nufern partner, opened the Nufern student office suite in the Advanced Materials Research Laboratory.

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Toptica Photonics Adds to US Sales Team

Kurt Van Hout will direct OEM sales in North America for the diode, fiber lasers and laser systems manufacturer.

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IPG Photonics Donates \$250K to Siegman Laser School Endowment

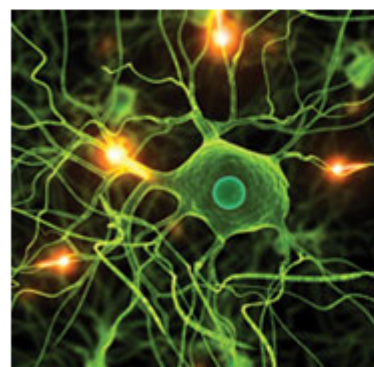
The gift from the Oxford, Mass.-based fiber laser maker will help permanently establish OSA's Siegman International Summer School on Lasers, modeled after the summer school program at the Changchun Institute of Optics, Fine Mechanics and Physics in China.

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Photonics Media will host Dr. Aydogan Ozcan, Associate Professor, Bio- and Nano-Photonics Laboratory, Electrical Engineering and Bioengineering Departments, UCLA. Dr. Ozcan will introduce new imaging and detection architectures that compensate digitally for the lack of complex optical components available in cell phones by using novel theories and algorithms to address the immediate needs of telemedicine for global health problems.

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