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The Winter 2013 issue of *EuroPhotonics* includes feature articles on the collaboration required to rebuild the solar industry; piezoactuators for beam control in industrial applications; and an interferometer that addresses accuracy and stability requirements in varying environmental conditions.

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Optical Fiber Throughput Boosted Tenfold

A simple, innovative solution reduces the amount of space required between the pulses of light that transport data through an optical fiber, dramatically increasing their capacity. Optical fiber can carry data as light pulses over thousands of miles at amazing speeds, but their capacity is limited because the pulses need to be spaced apart so they don't interfere with each other.

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First Horizon 2020 Photonics Projects Open

The European Commission presented on Wednesday its first calls for projects under the Horizon 2020 program, the European Union's seven-year, €80 billion research and innovation program. Those calls include €47 million specifically earmarked for photonics-related proposals.

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Portable Thermal Imaging Kits
FLIR - Advanced Thermal Solutions
FLIR Systems has expanded its range of entry level R&D grade thermal imaging kits for academic teaching and industrial research labs.

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High-Quality Infrared Cameras
Allied Vision Technologies GmbH
Goldeye cameras feature InGaAs sensors for short wave infrared sensitivity. With 14-bit processing and numerous image correction features, cameras produce an outstanding, low-noise image quality.

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PEM-ATC Reduces Thermal Drift
Hinds Instruments
Hinds Instruments, Inc. announces the PEM-ATCTM, a photoelastic modulator with advanced thermal control.

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More from EuroPhotonics

Nanowire Lasers Emit at Useful Wavelengths

Threadlike semiconductors can be made to emit light at useful wavelengths, demonstrating potential as lasers for applications in computing, communications, and environmental and biological sensing. Scientists at Technical University Munich (TUM) demonstrated laser action in the semiconductor nanowires at room temperature, which they say could work with silicon chips, optical fibers and even living cells.

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Ultrashort-Pulse Laser Wins German Future Prize

The academic and industry partnership that moved ultrashort-pulse lasers out of the research lab and onto the factory floor was awarded the 2013 German Future Award this week by German Federal President Joachim Gauck. The prize, which includes €250,000, was presented to the team of Drs. Stefan Nolte, Jens König and Dirk Sutter for establishing ultrashort-pulse lasers as a new tool for industrial production.

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Nanophotonics Expert Joins Aston's Photonics Institute

Professor Misha Sumetsky, creator and pioneer of SNAP (surface nanoscale axial photonics) technology, has joined the Aston Institute of Photonic Technologies (AIPT). At Aston, Sumetsky's team will work to further develop the SNAP system, which uses small segments of optical fibers to fabricate miniature photonic devices with subangstrom precision.

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Photonics West: 4-6 February 2014
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