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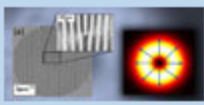
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Nanostructured Holograms Control Light's Intensity, Phase, Polarization
By combining cutting-edge nanotechnology with holograms, applied physicists at Harvard demonstrated a novel way for changing the intensity, phase and polarization of light rays. The polarization effect that the new interface has on light could formerly only be achieved by a cascade of several different optical elements. "Now, you can control everything you need with just a single interface," said Harvard SEAS research associate Patrice Genevet. "We're gaining a big advantage in terms of saving space."

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Former IPG Photonics Consultant Sues over Fiber Invention
Armen Dallakian claims that he is the inventor of a simple, highly effective technique to align light beams as they pass from one fiber optic cable to another at a coupler or switch, and that the technology was misappropriated by IPG.

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Lab-Made Antennas Are Sun 'Sponges'
The evolutionary chemical machinery of nature — and a dash of human ingenuity — have created synthetic light-harvesting antennas that convert sunlight into unprecedented amounts of usable energy.

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For Phasing Nanocrystals, Size Really Matters
Size is of much greater importance than previously believed in metal nanocrystals undergoing phase transformations, a finding that has important implications for the future design of hydrogen storage systems, catalysts, fuel cells and batteries.


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Army Groups Collaborate on Stronger Laser Protection
More technologically advanced warfare devices will give soldiers tools not only for offense, but also for defense, if the Army's Laser Protection Team achieves its mission.


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Trojan Technologies Wins OSA's 'Enabled by Optics' Contest
Trojan Technologies won first place in the corporate division of Enabled by Optics, a new contest designed by the Optical Society (OSA) to raise public awareness of the importance of optics and photonic technologies.

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On this edition of the industry's **only weekly newscast**: an IR camera proves valuable for detecting whales in the wild, mechanical pressure is converted to light signals, and we meet the first winner of The Optical Society's Enabled by Optics contest. Hosted by Photonics Media's Laura Marshall and Melinda Rose.

Atomic Clocks Set Stability Record
At the National Institute of Standards and Technology, a new stability record was set by a pair of experimental atomic clocks based on ytterbium atoms.

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Optimax Completes Coating Facility Expansion
The third and final phase of a \$10 million, 4000-sq-ft expansion of the company's optical coating facility is now complete, providing space for more than 50 additional employees.

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X-rays Probe Structural Properties of Solids
A new method developed at the Helmholtz Center Berlin uses x-rays to probe the properties of solid materials without destroying them and could mean big things for superconductivity and chemistry studies.

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Industry Events

WEBINAR



The Development and Application of an Innovative Technology Enabled by Optics

Wednesday, September 11, 2013 12 p.m. EDT/9 a.m. PDT

FREE WEBINAR



Wayne Lem
Market Manager
Trojan Technologies

Since 1977, Trojan Technologies of Ontario, Canada, has led the change to municipal water disinfection systems that use environmentally responsible, cost-effective ultraviolet light in place of chemicals. In this one-hour webinar, Wayne Lem, municipal wastewater market manager for Trojan Technologies, will explain how Trojan became the leader in advanced UV water treatment technology and the inaugural winner of the Optical Society's Enabled by Optics contest. Topics he will address include the challenges to developing an innovative technology, Trojan's technology and its future applications.

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