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Rare Mineral Yields Light-Emitting Nano Triangles

A rare mineral formed into single sheets has yielded triangular structures with unusual light-emitting properties that could be used in technologies such as light detectors or lasers. "One of the most exciting properties of the tungsten disulfide monolayer is its photoluminescence," said Mauricio Terrones, a professor of physics and of materials science and engineering at Penn State University. "We see the strongest photoluminescence at the edges of the triangles, right where the chemistry of the atoms changes, with much less photoluminescence occurring in the center of the triangles."

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Power Technology Purchases Klastech

The laser company retained the Klastech organization in its entirety and will work over the next several months to seamlessly integrate both products and employees into its organization.

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Nanotubes on a Chip Simplify Optical Power Measurements

A novel chip-scale instrument made of carbon nanotubes may simplify absolute measurements of laser power, especially the light signals transmitted by optical fibers in telecommunication networks, researchers at the National Institute of Standards and Technology report.

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Toptica Buys Laser Diode Maker Eagleyard

Under the acquisition, the laser diode manufacturer will continue to operate as an independent company and maintain its sales and distribution organization and brand.

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Improved 'Peacock' Tech Could Lead to Better Hi-Res Displays

A new study from the University of Michigan has revealed a simple way to reproduce the iridescence of peacock feathers for the development of high-resolution, reflective color display screens.

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CVI Melles Griot Rebrands as 2 Companies

The organization will now operate as two companies, CVI Laser Optics and Melles Griot, effective immediately, the IDEX Optics & Photonics platform announced.

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On this special edition of Photonics Media's [weekly newscast](#), co-hosts Laura Marshall and Melinda Rose report live from the BIOS Show at SPIE Photonics West 2013. They talk with show exhibitors Optofluidics, PD-LD, JenLab and Vytran about their fascinating products for applications in the biophotonics market.

Light-Activated 'Living Crystals' Created

Birds of a feather flock together, but what causes these flocks to form and move in a particular way has always been a fundamental question in nature. Now, however, a method using "living crystals" that behave in near-lifelike ways when activated by blue light, could provide the answer, say its creators at New York University.

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Throckmorton to Lead Global Engineering at Ocean Optics

In his new role as vice president of global engineering, Throckmorton will be responsible for increasing the company's line of spectrometers, chemical sensors, analytical instrumentation and accessories through internal engineering and open innovation initiatives.

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Element Six Boosts Synthetic Diamond Production

The synthetic diamond division of the De Beers Group announced that its California facility has boosted its production levels of synthetic diamond wafers by 50 percent.

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Industry Events


OFC/NFOEC 2013 - March 17 - 21, 2013 · Anaheim, CA



The Optical Fiber Communication Conference and Exposition and the National Fiber Optic Engineers Conference (OFC/NFOEC) is the premier international event for both the science and business of optical communications and networking. It features more than 110 short courses, over 550 exhibitors and 750 technical papers covering technologies and applications in cloud and data center networking, space division multiplexing, 1 TB and beyond optical networking, flexible grid networks, convergence of optical and wireless networks, 100 G/400 G network design and optimization, and more.

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PITTCON 2013 - March 17 - 21, 2013 · Philadelphia, PA



Pittcon is the world's largest annual conference and exposition for laboratory science. It features the latest technology and instrumentation from over 900 exhibitors and more than 2000 technical presentations that cover topics such as life sciences, drug discovery, nanotechnology, biomedical, environmental, homeland security, food science, forensics, agriculture and biomass. The event will also include a keynote lecture by R. Michael Barnett of Lawrence Berkeley National Laboratory, short courses in over 50 topics, poster and networking sessions, and the Waters Symposium, which will recognize the commercialization of chemical imaging. Nobel Laureate Sir Harold Kroto will be the Wallace H. Coulter Plenary Lecture speaker for Pittcon 2013.

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