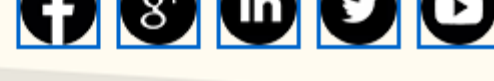


# This Week In PHOTONICS

PHOTONICS MEDIA



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## Top Stories

### Photoactivated QDs Kill Antibiotic-Resistant 'Superbugs'

A technique for treating bacterial infections has successfully used light-activated quantum dots (QDs) to kill multiple multidrug-resistant strains. The QDs — which are inactive in darkness — were tailored to target particular infections thanks to their light-activated properties. The researchers said that by modifying the wavelength of light applied, they could activate the QDs to alter and kill infected cells with specificity.



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### Photonics Media Appoints Two to Key Editorial Posts

Photonics Media has appointed a new editorial team for its four business-to-business publications. Veteran technology writer Michael Wheeler has been appointed managing editor, with direct responsibility for the company's flagship magazine, *Photonics Spectra* and for *EuroPhotonics* magazine. James Schlett assumes direct responsibility for the content of *BioPhotonics* magazine, the industry's only biophotonics publication, and the company's newest publication, *Industrial Photonics*.

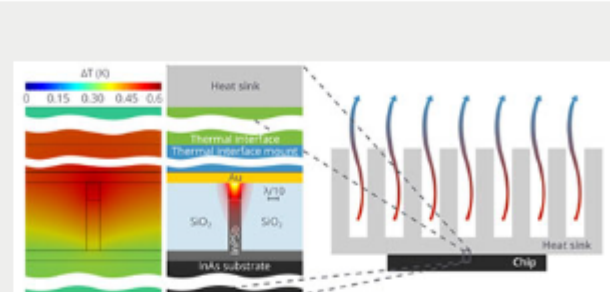


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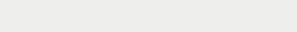


### Standard Heatsinks Efficiently Cool Plasmonic Components

Self-heating of active plasmonics, which limits achievable optical gain, has been a barrier to the development of optoelectronic microprocessors for high-speed data transfer. As the semiconductor industry looks to replace electrons with photons to increase data-transfer capabilities, they must also address the challenge of scaling down photonic components.



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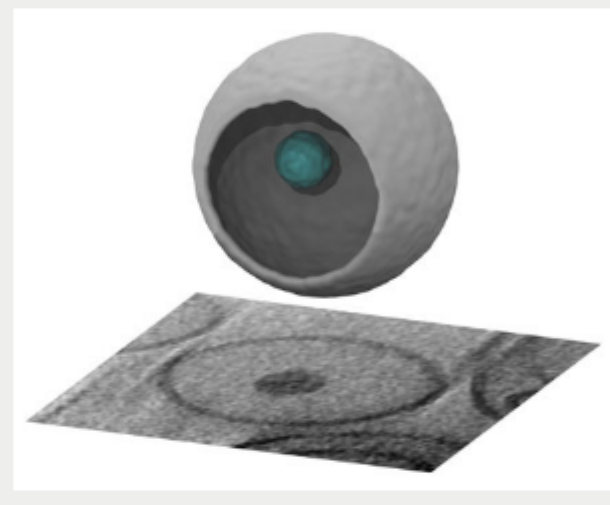
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### NIR-Activated Nanoparticle Therapy Suppresses Tumors

A nanoparticle drug-delivery system that combines photodynamic and molecular therapies has been shown to suppress tumor progress and metastatic outgrowth in animal models. The complementary treatment could improve outcomes and mitigate toxicity for patients with pancreatic cancer and other treatment-resistant tumors.

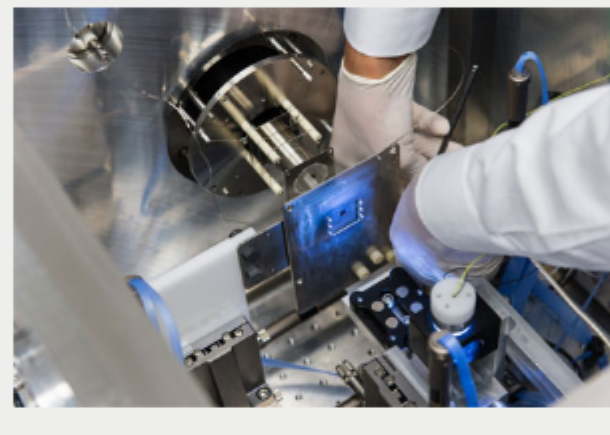


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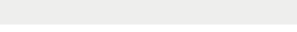


### EUV Laser Enables Nanoscale 3D Imaging of Cells

A mass-spectral imaging system that integrates an EUV laser has enabled the mapping of cellular compositions in 3D, allowing researchers to watch how cells respond to medications at the nanoscale. The instrument comprises mass-spectral imaging technology and an extreme ultraviolet (EUV) laser. The EUV beam produces in a tiny stream of plasma that is very hot and dense, and which acts as a gain medium for generating EUV laser pulses.



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## Featured Video

### OSA Centennial – Amy Eskilson, Inrad Optics

The Optical Society members share their reflections on 100 years of optics innovation, what inspired their interest in the field and how OSA has impacted their career.



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## Featured Products



### 5400 TECSource

**Arroyo Instruments, LLC**

The new 5400 TECSource pushes temperature control power to new levels, with up to 960 watts of power available for your most demanding thermal applications.

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### Fiber Optic Oxygen Sensors

**SpectrEcology, LLC**

Our oxygen sensors use the quenching of fluorescence by collision of molecular oxygen with a fluorophore that is trapped in an oxygen permeable sol gel or polymer.

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### Ball and Spherical Lenses

**APPLIED IMAGE Inc.**

APPLIED IMAGE manufactures optically pure BALL (spherical) Lenses in custom diameter sizes using a wide variety of materials, including Infrared Chalcogenide composite IRG26.

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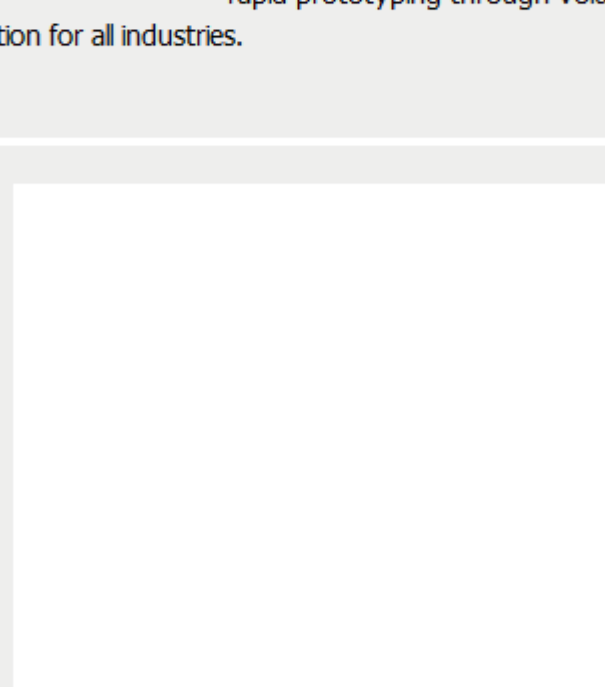
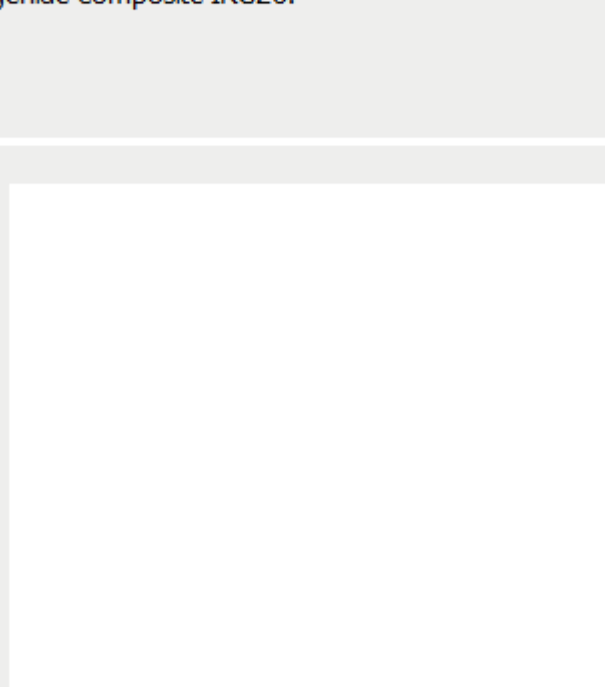
### Optical Wedges

**A.R.W. Optical Corporation**

ARW Optical Corporation manufactures custom, standard and OEM optical wedges for the UV to IR region. Provides rapid prototyping through volume production for all industries.

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## Industry Events

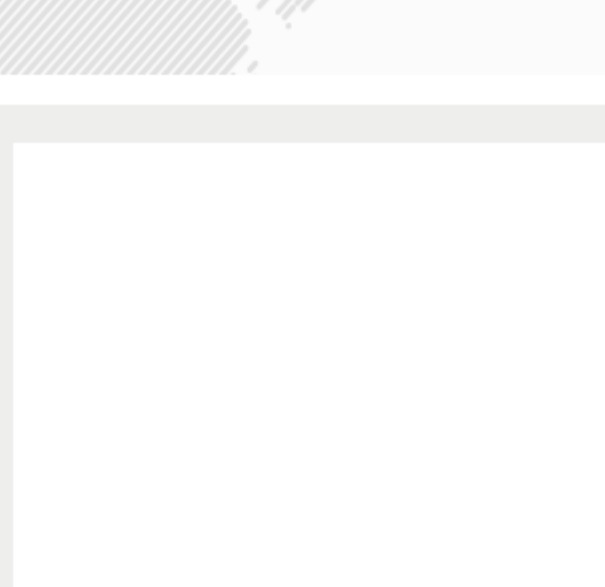
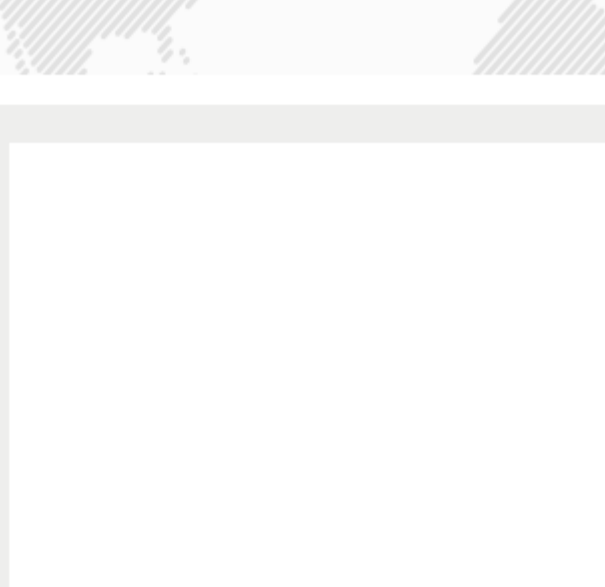
### A3 Business Forum 2016

Feb. 3, 2016 - Feb. 5, 2016 - Disney Yacht & Beach Club, Orlando, FL

The A3 Business Forum is the world's leading annual networking event for robotics, vision and imaging, motors, and motion control professionals.

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Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *Industrial Photonics*, *BioPhotonics* and *EuroPhotonics*). Please submit an informal 100-word abstract to Managing Editor Michael Wheeler at [Michael.Wheeler@Photonics.com](mailto:Michael.Wheeler@Photonics.com)

Questions: [info@photonics.com](mailto:info@photonics.com)

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