

# This Week In PHOTONICS

PHOTONICS MEDIA



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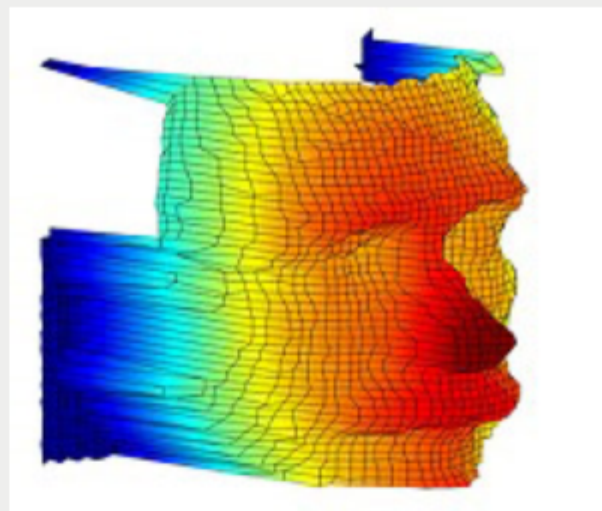
**OPIC OPTICS & PHOTONICS International Congress 2020**

**20-24 April, 2020  
Yokohama, Japan**

## Top Stories

### Researchers Develop Method to Dramatically Reduce Imaging Noise

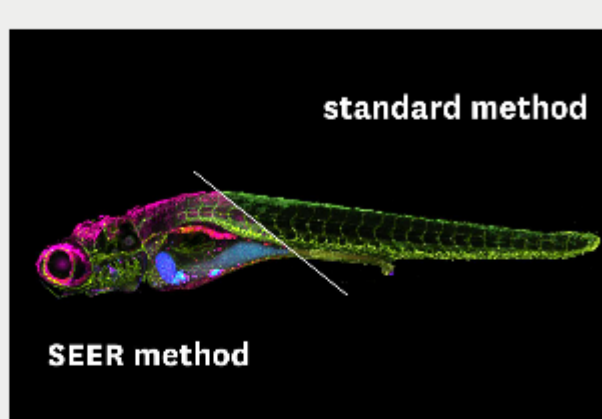
Researchers at Stevens Institute of Technology created a 3D imaging system that uses light's quantum properties to create images 40,000 times crisper than current technologies. The research could allow for better lidar sensing and detection, satellite mapping systems, deep-space communications, and medical imaging of the human retina.



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### Technique Interprets Hyperspectral Images Using Phasor Approach

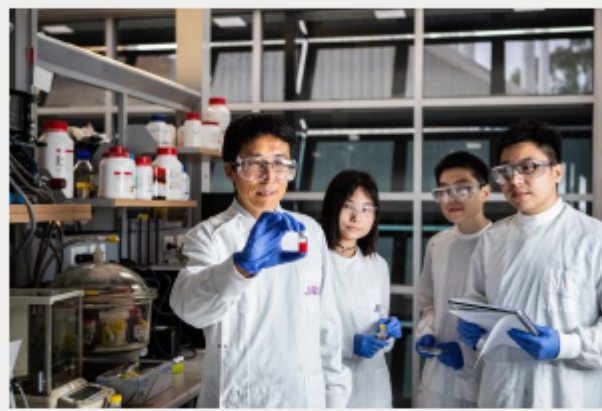
An imaging technique called spectrally encoded enhanced representations (SEER) provides greater clarity and works up to 67 times faster and at 2.7 times greater definition than existing spectral imaging techniques, according to its developers at the University of Southern California (USC).



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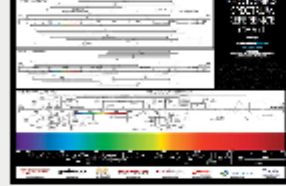
### QD Solar Cells Realize 16.6% Power Conversion Efficiency

Researchers at the University of Queensland (UQ) are harnessing the properties of quantum dots to make solar cells that capture a wider range of light for energy, are more stable in their energy production, and can be applied to curved surfaces. According to the team led by professor Lianzhou Wang, UQ has achieved a new world record for quantum dot solar cell efficiency.



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## Featured Products

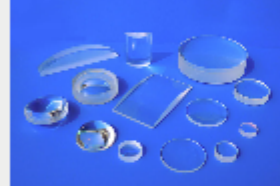


### Photonics Spectrum Reference Chart

#### Photonics Media

This full-color, 30 x 20.5-inch poster of the photonics spectrum displays the major commercial laser lines, detectors and optical materials in the ultraviolet to the far-infrared and beyond. The chart was updated in 2018 to reflect the changing technologies in the photonics industry. The convenient format makes it easy to quickly find the information you need.

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### High Quality Customized and Standard Optical Lenses

#### CeNing Optics Co. Ltd.

CeNing Optics has been producing high-quality optical lenses since 2004. With a variety of manufacturing facilities, and an experienced and skillful team, we can produce lenses from 3.0 mm to 300 mm diameter range. The lenses can be with common and special curvatures like plano-convex, plano-concave, Bi-concave, Bi-convex, and meniscus.

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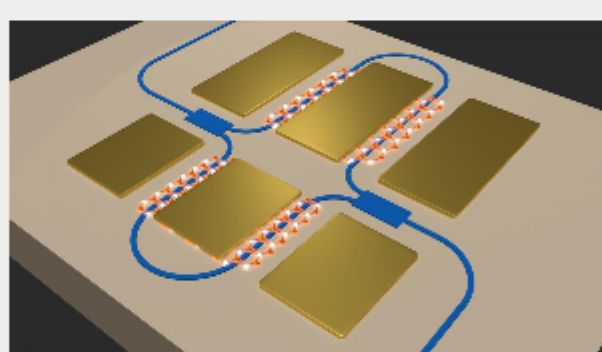
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## More News

### 2D Materials Integrated with Silicon Photonics Manipulate Light Phase at Low Loss

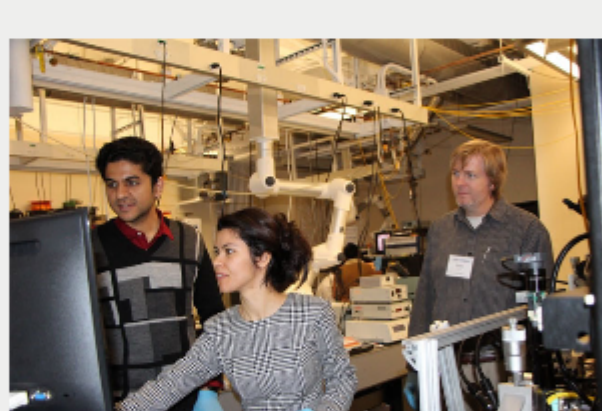
A Columbia University team used a 2D material from the transition metal dichalcogenide (TMD) class to control the phase of light without changing its amplitude or depleting its power. By placing the atomically thin material on top of passive silicon waveguides, the researchers were able to change the phase of light as strongly as if they had used silicon phase modulators, but with much lower optical loss and power consumption.



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### Weeklong Bootcamp Provides Hands-On Experience in Integrated Photonics

A weeklong integrated photonics bootcamp, offered by MIT as part of its work with the manufacturing institute AIM Photonics, provided students with the opportunity to solve problems using lab equipment to test passive photonic chips, preparing them for challenges they could face on the job.



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## More Headlines

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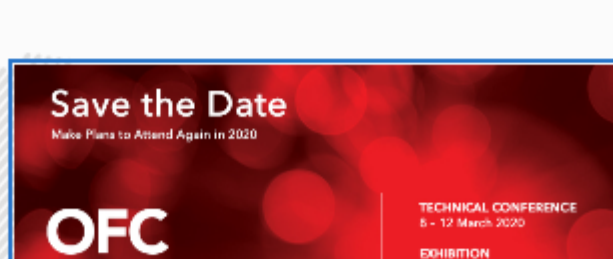
## Industry Events

### OFC 2020

March 10-12, 2020 - San Diego Convention Center - San Diego  
Photonics Media Booth: 6309

For over 40 years OFC, a global conference and exhibition for optical communications and networking professionals, has drawn attendees from all over the world to teach and learn, make connections, and move the industry forward. The five-day technical conference will feature peer-reviewed presentations and more than 180 invited speakers. Additional technical programming throughout the week will include special symposia, in-depth tutorials, workshops, and panels. Attendees will be able to choose from 55 short courses taught by industry experts. Over 700 exhibitors will showcase the industry's latest products and innovative solutions.

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### CALL FOR ARTICLES

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *BioPhotonics*, *Vision Spectra*, and *EuroPhotonics*). Please submit an informal 100-word abstract to [editorial@Photonics.com](mailto:editorial@Photonics.com), or use our [online submission form](#).

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