This Week In

PHOTONICS MEDIA





An Insider's Guide to Collar Vorkforce by Sarah Boisvert

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is changing dramatically. Who's ready to work?

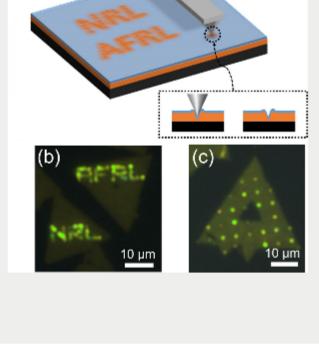
(a)

Manufacturing

Strain Engineering Enables Precise Placement of Single **Photon Emitters in Semiconductors**

Scientists at the U.S. Naval Research Laboratory (NRL) and the Air Force Research Laboratory (AFRL) have developed a way to directly write quantum light sources, which emit a single photon of light at a

time, into monolayer semiconductors such as tungsten diselenide (WSe₂).



Congress 2019







the same core technology as the UV patch, ICFO is developing a fitness band to measure heart rate, hydration, oxygen saturation, breathing rate, and temperature.

A new device from the Institute of Photonic Sciences allows users to monitor their level of exposure to sunlight through a UV sensor. Using

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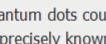
Emission







3 A B C



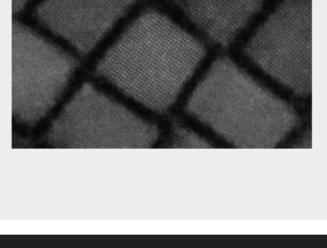
individual perovskite quantum dots could be used as a source for individual photons with precisely known and consistent properties, including wavelength.

Perovskite Quantum Dots Deliver Coherent Single-Photon

Featured Products Back Illuminated sCMOS by PCO

PCO-TECH Inc.

Unique technology comes from



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cameras pool forces with modern back illuminated (bi)

The 4400 Series LaserSource laser diode driver is

designed for demanding, high-power laser applications.

with their nearly perfect quantum...

sensor technology, pco.edge 4.2 bi and pco.panda 4.2 bi come into the world of science. Both cameras stand out

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High Power Laser Drivers

Arroyo Instruments LLC

With up to 100 Amps of drive current and high-voltage configurations, the 4400 can meet many high-power laser requirements. Add QCW operation, digital I/O, and temperature monitoring, and you have a very capable instrument. Request Info Visit Website



Parts

homogeneity.

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M-Wave 339 IR Interferometer

M3 Measurement Solutions Inc.

The M-Wave 339 is a state-of-the-

art Infrared Interferometer operating at 3.39 micrometers.

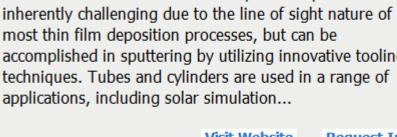
It is the ideal instrument for testing mid-wave infrared

imaging components/systems and optical material

Uniform Coatings for Cylindrical

Deposition Sciences Inc. (DSI)

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most thin film deposition processes, but can be accomplished in sputtering by utilizing innovative tooling

Obtaining uniform coatings on

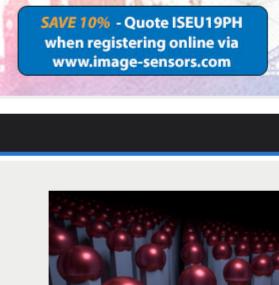
tubes and cylindrical parts is

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in a highly controlled and fully reproducible manner. First, they needed

to understand what happens at the onset of nanowire growth — a process, they found, that goes against currently accepted theories.



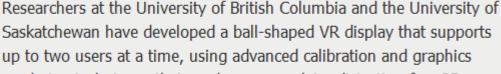
13 - 14 March 2019 | London, UK

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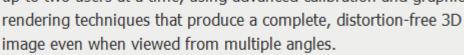
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Collaborative Tasks





3 7 6 7



'Crystal Ball' VR System Supports Two Users for



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SMART TECHNOLOGIES + INTELLIGENT PEOPLE COLLABORATIVE

INTELLIGENCE

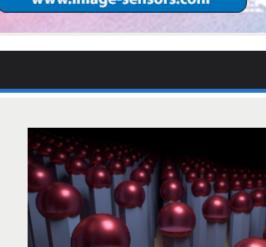
EXHIBITS: APRIL 30-MAY 1

REGISTER NOW

March 17-21, 2019 - Pennsylvania Convention Center - Philadelphia United States Photonics Media Booth: 2512 Pittcon is the world's leading annual conference and exposition on laboratory science. It attracts attendees from industry, academia, and government from over 90 countries worldwide. Having grown beyond its roots in analytical chemistry and spectroscopy, Pittcon has evolved into an event that now also serves a diverse constituency encompassing life sciences, pharmaceutical discovery and QA, food safety, environmental, bioterrorism, and other emerging markets. Proceeds from Pittcon fund science education and outreach at all levels, from kindergarten through adult.

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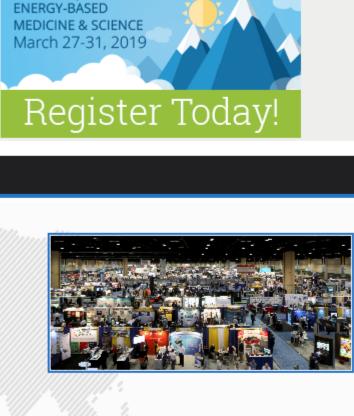
Industry Events

PITTCON 2019

CONFERENCE: APRIL 29-MAY 2, 2019

LONG BEACH [CA] CONVENTION CENTER

sme?



ASLMS 201

39th ASLMS

Annual Conference on

Deep Learning in Machine Vision Tue, Mar 5, 2019 10:00 AM - 11:00 AM EST This webinar will give users of machine vision software insight into

Webinars

deep learning technologies based on MVTec HALCON and provide an overview of deep learning machine vision applications. He will also

cover some of the best practices for developing and setting up deep learning applications. This webinar is sponsored by Euresys, Smart Vision Lights, Integro Technologies, and IDS Imaging Development

Systems GmbH.

Register Now In Vivo Medical Laser Procedures: An Overview Thu, Mar 7, 2019 1:00 PM - 2:00 PM EST This one-half hour webinar, presented by OFS, will provide an overview of current in vivo medical procedures performed using lasers and optical fibers, including procedures for neurology, ophthalmology, and cardiology. The presentation will begin with a

deep learning technologies and the possibilities that deep learning offers for machine vision applications. The presenter will introduce

brief history of laser-based medical applications. Speaker Jaehan Kim will describe the types of light-tissue interactions and discuss which wavelengths have been found most useful for different medical procedures. He will also touch on the use of high-power versus lowpower lasers; the use and benefits of laser-based imaging applications; and the benefits of the Raman fiber laser, a potentially game-changing technology for medical laser applications. Register Now



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word abstract to editorial@Photonics.com, or use our online submission form. We respect your time and privacy. You are receiving this email because you are a Photonics Media subscriber, and/or a member

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