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**MCL**
MAD CITY LABS INC.

Nanopositioning Systems
AFM and NSOM

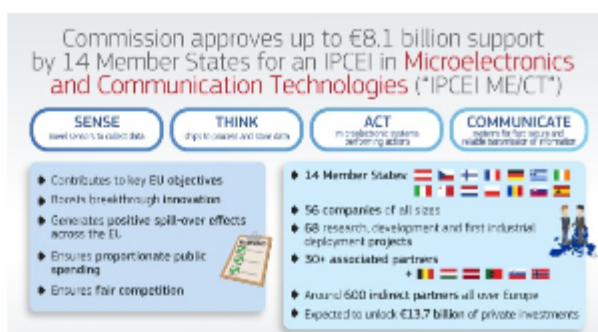
Micropositioning Systems
Single Molecule Microscopes

Visit us at Laser World of Photonics - Stand A2.328

European Commission Approves \$8.7B for Chips R&D and Implementation

Leaders from across Europe's photonics industry will join an Important Project of Common European Interest (IPCEI) focused on the development of microelectronics and communications technologies (ME/CT). The European Commission (EC) approved €8.1 billion (\$8.7 billion) in public funding to support the initiative, which has been jointly prepared by 14 member states across the continent.

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Laser-Powered Measurement Holds Key to Improved Engine Core Technologies

Partners from aerospace manufacturer Pratt & Whitney and Virginia Tech have developed an optical technology to calculate engine thrust to allow high-fidelity measurements of gas turbine engine parameters including velocity, temperature, and density. The laser-based and optical instrumentation technique, called filtered Rayleigh scattering for thrust measurement, offers significant advantages compared to traditional sensors and probes, and will support the development of smaller and more thermally efficient engine core technologies and could enable the measurement of non-CO2 particulate emissions in flight.

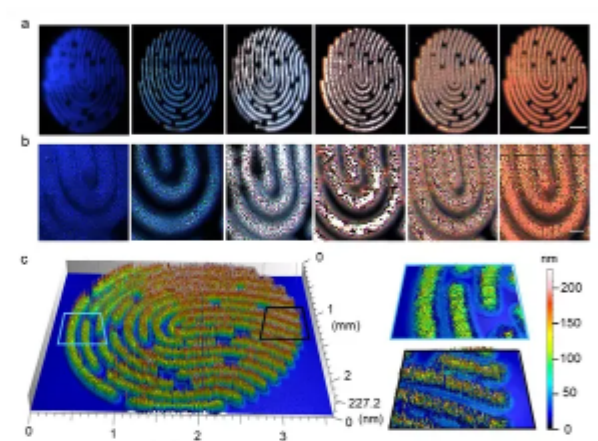
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Fluorescent Caramel Prevents Product Counterfeiting

The counterfeiting of electronics, certificates, and medicines causes billions of dollars in economic losses worldwide every year. According to current estimates from the World Health Organization, counterfeit medicines account for €73 billion (\$78 billion) in annual sales. Half of counterfeit medicines are obtained through unauthorized online mail-order companies, according to the organization.

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Featured Products & Services



[LIGHT: Introduction to Optics and Photonics, Second Edition](#)

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Offering a comprehensive treatment of the subject as well as key applications, and employing minimal math, LIGHT: Introduction to Optics and Photonics was written with readers in mind.

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[Mad City Labs GmbH - Tools for the Nanoscale](#)

Mad City Labs Inc.

Mad City Labs provides tools for the nanoscale for applications in photonics, microscopy, and physics. Our portfolio includes closed loop piezo nanopositioners, micropositioners, atomic force microscopes (AFM/SNOM), and single molecule microscopes. Direct EU office. Lead times < 60 days.

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More News From Europe

PhotonDelta and Research Partner Apply Integrated Photonics to Agrifood

PhotonDelta and OnePlanet Research Center have launched the Integrated Photonics for Agrifood roadmap. The roadmap, according to PhotonDelta, lays out the future of sustainable food production and distribution using photonic microchip technology.

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Fully Submerged Quantum Lidar Device Acquires 3D Images

Researchers in the U.K. have demonstrated a lidar system that uses quantum detection technology to acquire 3D images while submerged underwater. According to research team member Aurora Maccarone, a Royal Academy of Engineering research fellow at Heriot-Watt University, the technology has a broad range of applications, including inspection of installations such as underwater wind farm cables and the submerged structure of the turbines.

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Toshiba Europe and Telecom Partner Demonstrate QKD Deployment Viability

Researchers from Toshiba Europe and global telecommunications operator Orange have demonstrated the viability of deploying quantum key distribution (QKD) on existing commercial networks to protect transmissions from being decrypted by quantum computers. The demonstration and findings could help network operators reduce the cost of implementing QKD by removing the need to invest in dedicated quantum fiber infrastructure.

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