

This Week in PHOTONICS



Shortwave Infra, Broadband Spectrum Solution Provider
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Top Stories

DARPA Pegs Design Teams for Power Beaming Relay Initiative

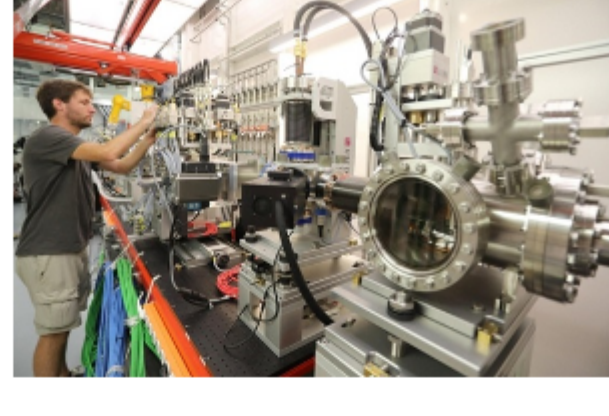
DARPA has selected three teams, led by RTX Corp., Draper, and BEAM Co., to develop wireless optical power relays for its Persistent Optical Wireless Relay (POWER) program. The program, which will develop energy distribution through airborne wireless power transfer, sets out goals including the demonstration of key components necessary for a resilient, speed-of-light energy network.



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Lithuanian Laser Laboratory Opens in Taiwan

Citing the Lithuanian Ministry of Economy and Innovation, the Central European Initiative reported the establishment and opening of the Lithuanian Laser Laboratory in Taiwan. The laboratory will serve to expedite the development of laser and other innovative technologies, with funding provided by the Lithuanian Science Council and Taiwanese representatives.



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Single-Cell Analysis Fluidics Tool Delivers on Demand

Researchers at the Qingdao Institute of Bioenergy and Bioprocess Technology of the Chinese Academy of Sciences developed a system called optical on-demand droplet release (OODR), which they believe could promote SDAs as a valuable tool for use with high-capacity screening assays with applications in diverse fields. They said that the technique in its current stage of development has the potential to be used in single-molecule/cell analysis, drug screening, and phenotype-based cell sorting.



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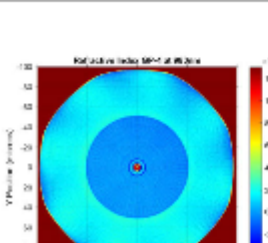
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Upcoming Webinars



The Past, Present, and Future of Optical Fiber

Tue, Sep 26, 2023 1:00 PM - 2:00 PM EDT

Hair-thin strands of glass, intrinsically transparent and strong, connect today's world in ways that are unimaginable even 20 years ago. Over the past 50 years, glass optical fibers have advanced from passive low-loss conduits for light to active light-amplifying hosts to a myriad of nano-to-macro-structuring of core-clad combinations. John Ballato of Clemson University discusses this history as a looking glass into the future of optical fibers and its symbiosis with light to address the question: What can the next 50 years bring? Sponsored by Fibercore and Lumatec GmbH.

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New Frontiers in Terahertz Technology

Wed, Oct 4, 2023 1:00 PM - 2:00 PM EDT

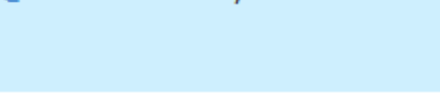
Although unique potentials of terahertz waves for chemical identification, material characterization, biological sensing, and medical imaging have been recognized for quite a while, the relatively poor performance, higher costs, and bulky nature of current terahertz systems continue to impede their deployment in field settings. In this presentation, Professor Mona Jarrahi describes some of her team's recent results developing fundamentally new terahertz electronic and optoelectronic components as well as imaging and spectrometry architectures to mitigate the performance limitations of existing terahertz systems. Her team's results pave the way for compact and low-cost terahertz sources, detectors, and spectrometers that could offer numerous opportunities such as, medical imaging and diagnostics, atmospheric sensing, pharmaceutical quality control, and security screening systems.

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