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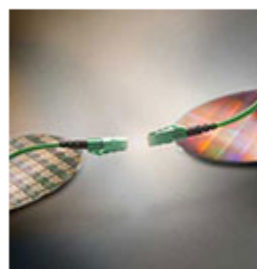
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Wednesday, April 16, 2014

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Better Lasers, Better Computing

To take communications to the next level, laser technologies must improve in terms of cost, efficiency and robustness. Fortunately, those improvements are in the works.

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Quantum Communications Finds Many Paths to Commercialization

From quantum repeaters and single-photon detectors to space satellites, photonics promises to bring quantum encryption to the mainstream.

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Laser Wavelength Meter

Bristol Instruments, Inc. [Request Info](#)

The best way to determine the absolute wavelength of CW lasers is with the 621 Series Laser Wavelength Meter. This system provides real-time wavelength information measured to an accuracy as high as ± 0.2 parts per million. This accuracy is guaranteed by continuous calibration with a built-in wavelength standard which ensures the reliable accuracy that is needed to generate the most meaningful experimental results.

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Trends in Lasers: Greater Speed, More Power and New Materials

For lasers, the trends are fast and powerful – literally. Shorter pulse widths and greater power are future directions for the technology. On the horizon are new lasing materials and new concepts to produce laserlike light sources. The outcome of these advances could be more efficient, less wasteful manufacturing as well as systems that consume less energy.

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Two Firsts for Raman Lasers

Synthetic diamond has enabled two significant developments in solid-state laser engineering: the first tunable diamond Raman laser, and the first continuously operating diamond Raman laser.

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Young Explorers Target Mid-IR Broadband for Real-Life Applications

Mid-IR broadband light sources are not yet widely found in real-life applications; however, an international team of young researchers may soon change that by developing an ultracompact, graphene-based version of the device.

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