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Thursday, March 27, 2014

Switching an Antibiotic On and Off with Light



Soon antibiotics may be switched on and off as readily as a light bulb, treating localized infections and potentially even cancer in the process. A team from the Karlsruhe Institute of Technology and the University of Kiev incorporated a photoswitchable molecule into an antibiotic so that its biological activity can be controlled with light of particular wavelengths.

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Day of Photonics 2014: Enlightening the Public

Superconductor LEDs Help Unravel Entanglement

the opportunities the industry offers.



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Polarizers are optical components designed to filter, modify, or analyze the various polarization states of light. Polarizers are commonly integrated into optical systems to decrease glare or increase contrast, or for measuring changes in magnetic fields, temperature, or chemical interactions. Join Brian McCall as he discusses the types of polarization and polarizers. Learn more about polarizers at www.edmundoptics.com/polarizers





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Superconductivity in LEDs could generate the perplexing quantum physics phenomenon



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In this edition of the industry's premier weekly newscast: Optical brain monitoring enables better stroke care, shrink wrap inspires disease biomarkers, antibiotics can be controlled with light, and we highlight SPIE's 2014 award winners.

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TracePro

LED Simulation Reflector Lenses

WHITE PAPER

Lambda Research Corp.

for layout, optimization, & analysis of illumination systems. This white paper illustrates how TracePro allows users to begin a project with an initial or basic design for LED lighting systems, use software simulation prior to building hardware, and easily create complex reflector shapes. TracePro's reflector and lens simulation utilities are specifically designed to help CAD designers without traditional optical engineering expertise design LED optical components quickly. DOWNLOAD WHITE PAPER >>

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University of New York, who will present major advances in optical biopsy and imaging spectroscopy. Alfano will discuss the key fingerprints to detect aggressive cancer cells; two new NIR spectral windows for imaging with less scattering of light in tissue; the use of upper singlet S2 for dyes to increase imaging depth using two-photon techniques; the use of spatial frequency spectra to detect structure in cancerous tissues and the brain; and, most of all, the use of supercontinuum - the ultimate white light - in biomedicine applications.

Photonics Media will host Dr. Robert R. Alfano, distinguished professor of science and engineering at The City College of the City

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Edmund Optics - Polarization Basics



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