# This Week In











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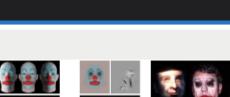
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### 'Makeup Lamp' Alters Appearance in Real-Time The facial appearance of actors can now be transformed during a live performance

### movements and changing expressions without the need for facial markers. The

using a projector-based illumination system that tracks an actor's facial

Makeup Lamp, developed by a team at Disney Research, reduces latency during every step of the process from capture, through processing, to projection. Read Article











A novel imaging tool that rapidly diagnoses bacterial lung infections could help physicians customize antibiotic treatment for patients in intensive care units. Currently, diagnosing bacterial infections relies on a slow process of detection

# followed by biopsy and lab-based culture growth — procedures that are prone to

contamination and can result in late treatment. The bedside technology, known as Proteus, uses LEDs and miniaturized optical fibers to enable the clinician to enter, image and sense the distal regions of patients' lungs. Read Article

Most of our collective sense of what dinosaurs looked like stems from blockbuster films like "Jurassic Park." The truth is, for years these depictions relied on artistic

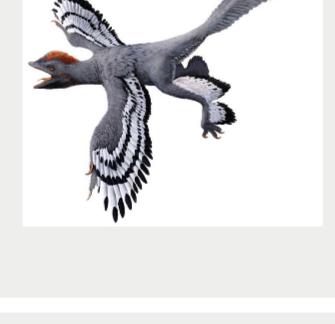
renderings based primarily on scant clues and what archaeologists and



Lasers Bring Dinosaurs to Life

### paleontologists surmised. Now, a group of researchers is going a step further, pointing lasers at fossils to get a better idea of what these "fleshy" creatures might have actually looked like.

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Organic Lasing

applications.









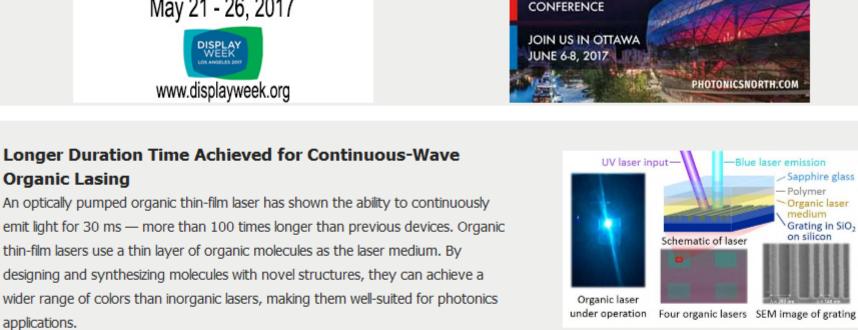
An optically pumped organic thin-film laser has shown the ability to continuously

thin-film lasers use a thin layer of organic molecules as the laser medium. By designing and synthesizing molecules with novel structures, they can achieve a

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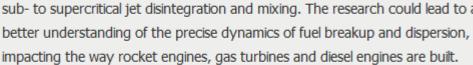
8 A B D Read Article Planar Laser-Induced Fluorescence Measures Jet Disintegration Quantitatively Spectroscopic diagnostic techniques were used to analyze the fundamentals of sub- to supercritical jet disintegration and mixing. The research could lead to a

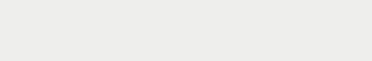


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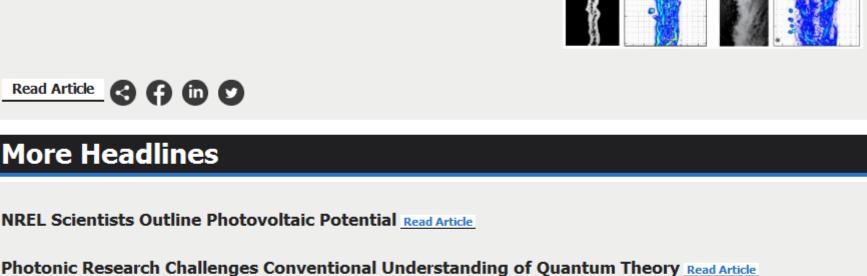






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sensitive material that provides an

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# Webinars

Yannis Paulus, M.D., will discuss novel biophotonics tools and techniques for

diagnosing and treating eye diseases, including retinal laser therapies and imaging. He will present significant advances in selective, reproducible retinal laser therapy

and discuss Photo-Mediated Ultrasound Therapy (PUT), a novel approach using a low intensity laser concurrently with ultrasound to selectively treat blood vessels. Dr. Paulus will also speak on new imaging modalities in ophthalmology, including optical coherence tomography, photoacoustic imaging, handheld/smartphone based imaging, and molecular imaging. Dr. Paulus is an academic vitreoretinal surgeon, an assistant professor of Ophthalmology and Visual Sciences and an assistant professor of Biomedical Engineering at the University of Michigan Kellogg Eye Center. Through his research, he seeks to help physicians diagnose diseases earlier, improve treatment monitoring, and practice precision medicine tailored to each unique patient. Register Now PHOTONICS buyers' guide®

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Laser Rod Repair

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More Info Biophotonic Tools for Diagnosing and Treating Eye

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