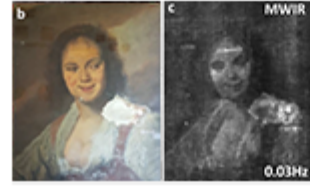


This Week in PHOTONICS



Active Thermography for panel paintings Inspection

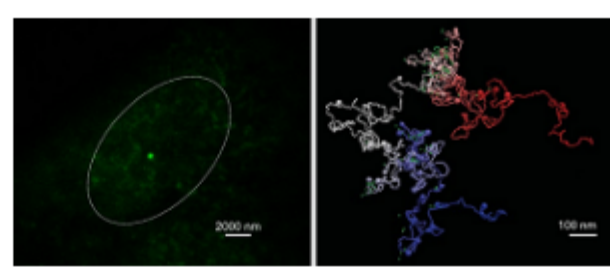


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Superresolution Method Poised to Improve Gene Function Understanding

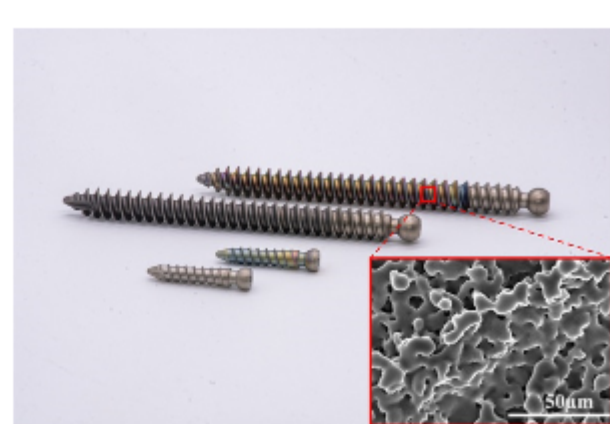
An interdisciplinary team from the Centre for Genomic Regulation and the Institute for Research in Biomedicine has developed an imaging technique that captures the structure of the human genome to reveal how individual genes fold at the nucleosome level — the fundamental units constituting the genome’s three-dimensional architecture. The technique integrates superresolution imaging with advanced computational modeling.



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Laser Surface Modification Shields Implanted Ortho Devices from Causing Infection

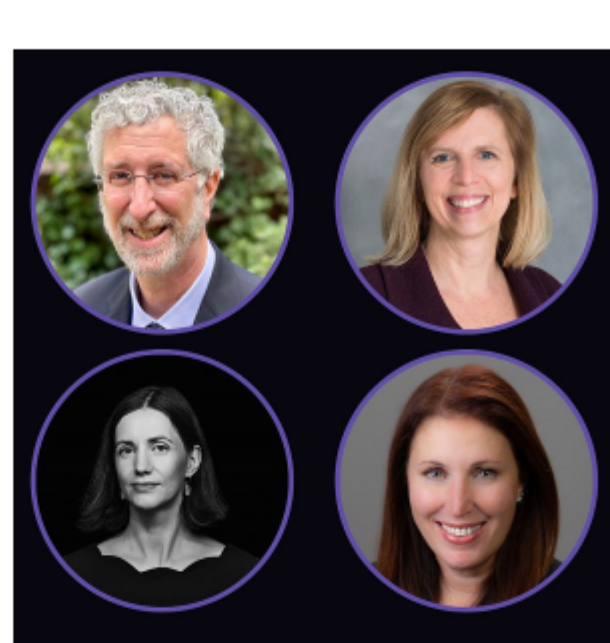
To help prevent infections caused by orthopedic implants, Purdue University researchers developed a laser-assisted surface modification process that may improve the efficacy of the implanted device.



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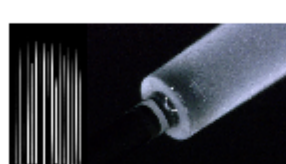
Optica Membership Elects 2023 Vice President, Directors At-Large Announced

The membership of Optica elected James Kafka as the society’s 2023 vice president; Kafka is CTO at Spectra-Physics and an MKS fellow. Julie Sheridan Eng, CTO at Coherent Corp., and Ulrike Fuchs, vice president for strategy and innovation at asphericon GmbH, were elected as directors-at-large for a three-year term from 2023-2025. Additionally, the Optica board of directors appointed Aleksandra Boskovic, vice president for optical communications technology development at Corning, as a director-at-large for a three-year term from 2023-2025.



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.: Upcoming Webinars



Harnessing Photons for Bond-Selective Imaging, Neuromodulation, and the Killing of Superbugs

Tue, Nov 1, 2022 10:00 AM - 11:00 AM EDT

Chemical microscopy utilizing fingerprint vibrational spectroscopic signals opens a new window to visualize the orchestra of molecules and biological structures inside living systems. Dr. Ji-Xin Cheng, professor at Boston University, and his research team have recently started to harness photons to modulate the behavior of cells, including the photoacoustic modulation of neurons at ultrahigh spatial precision and photolysis of intrinsic chromophores to eradicate drug-resistant bacteria.

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Managing Laser Degradation in Industrial Applications

Wed, Nov 2, 2022 1:00 PM - 2:00 PM EDT

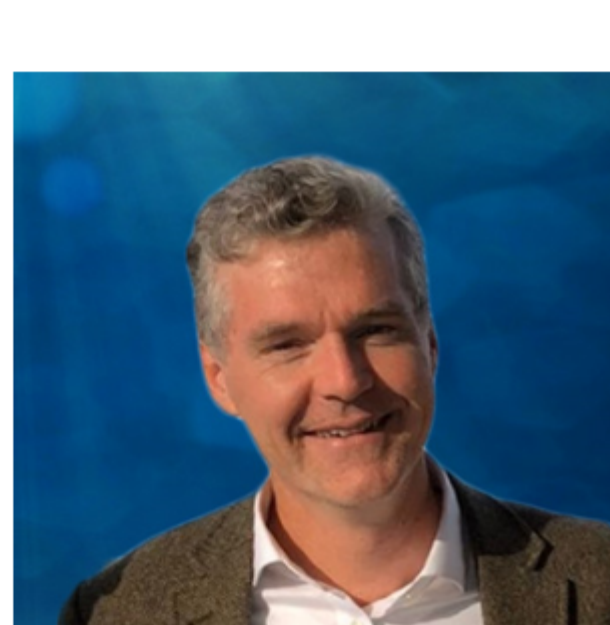
Lasers are made of physical matter. Due to this, the natural degradation of their materials can cause variability in performance. Aging optics can often cause slow changes in laser behavior and, when left unchecked, those changes can lead to loss of process efficiency. An unclean process environment can quickly change a laser’s behavior through thermal lensing which is caused by debris collected on laser optics John McCauley of MKS Ophir discusses how these variabilities are managed, what aspects of a laser’s performance should be analyzed, and what tools are available to perform this analysis. Presented by MKS Ophir.

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.: All Things Photonics

Brian Pogue, professor and chair of the Department of Medical Physics at the University of Wisconsin and the Maclean Professor of Engineering at Dartmouth College, is our guest. The episode explores the (sometimes conflict-characterized) relationship between industry and medicine, as well as cancer therapies and diagnostics, the evolution of standards, and biomedical device production. These subjects and more are featured in the program for the [Biophotonics Conference](#) to be held virtually by Photonics Media Oct. 25-27.



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