

This Week in PHOTONICS



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:: Top Stories

2024 SPIE Prism Award Finalists Announced

SPIE has named 27 finalists for the 2024 Prism Awards. The companies — ranging from emerging innovators to industry stalwarts — selected in nine categories, will be honored during a Jan. 31 gala evening at Photonics West. The annual event, which will be celebrating its 16th year, recognizes industrial innovation in photonics, honoring companies that are bringing transformative products to market.



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Neuroscience 2023 Places Spotlight on Discovery, Industry Collaboration

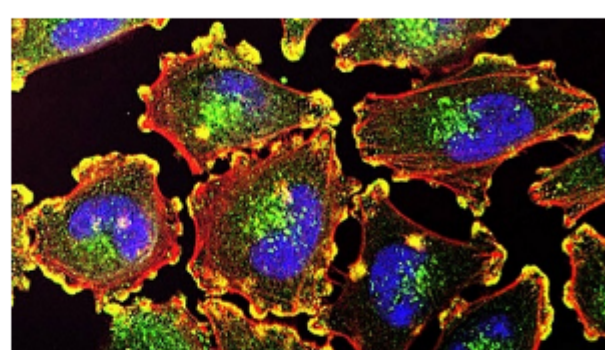
The Society for Neuroscience will hold its 2023 annual meeting Nov. 11-15 at the Walter E. Washington Convention Center in Washington, D.C. Society members and attending nonmembers will join to discover new ideas, share the latest in research, and attend on-site presentations and industry events. The convention's content will be fully available in person, with limited virtual options available to registrants.



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Integrating Light-Based Techniques Improves Phototherapy for Cancer

Researchers from the University of Maryland, in collaboration with medical laser manufacturer Modulight, demonstrated that the efficacy, safety, and consistency of photoimmunotherapy can be improved by integrating targeted, light-based techniques for drug delivery with laser-assisted endoscopy and fluorescence-guided treatment planning.



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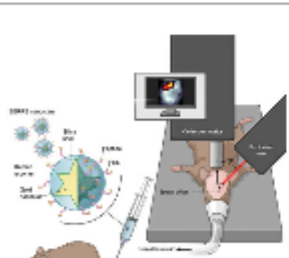
[nLight HELSI Contract Expanded to \\$171M](#)

[NUBURU Appoints CEO](#)

[Coherent Looks to Root Recovery in AI, Datacom, and Display Tech](#)



:: Upcoming Webinars

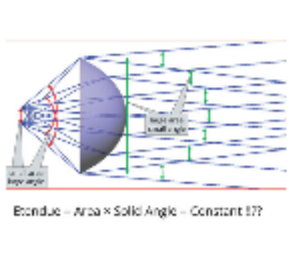


Optimization of Surface Enhanced Spatially Offset Raman Spectroscopy for Applications in Pre-Clinical Cancer Imaging

Thu, Nov 16, 2023 1:00 PM - 2:00 PM EST

In the field of optical imaging, the ability to image tumors at depth with high selectivity and specificity remains challenging. Fay Nicolson of the Dana-Farber Cancer Institute and Harvard Medical School discusses the optimization of SORS instrumentation and imaging approaches as well as the subsequent application of SESORRS to pre-clinical cancer imaging and the delineation of tumor margins in Apcfl/+, Apcfl/+,KrasG12D/+, and finally GL261 mouse models of colorectal cancer and glioblastoma. Moreover, using a SESORRS approach, she demonstrates that it is possible to detect secondary, deeper-seated lesions through the intact skull. This approach enables improvements in the non-invasive detection of these cancers due to improvements in SNR, spectral resolution, and depth acquisition, and can complement clinically approved image-guided surgical techniques.

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The Etendue Mystery Revealed

Tue, Nov 28, 2023 10:00 AM - 11:00 AM EST

Etendue is the most important and fundamental quantity in illumination optics while simultaneously the most mysterious, misunderstood, and misused quantity. This is because, under certain conditions, etendue follows a conservation law. Similar to all conservation laws, understanding etendue provides great insight into what can be achieved with illumination optics. The confusion instead comes from understanding under what conditions etendue follows this conservation law. In this presentation, Julius Muschaweck explains what etendue is, exactly when etendue is conserved, as well as how etendue can help to assess feasibility and guide the optical designer toward finding effective optical solutions.

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