Tuesday, November 24, 2020

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WEBINARS

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What's New in Solid-state Illumination for Optical Microscopy?

Tuesday, December 1, 2020 1:00 PM - 2:00 PM EST

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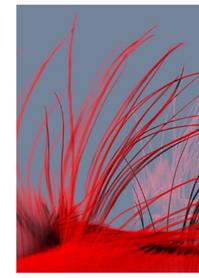
.: About This Webinar



Solid-state, white-light illumination is furthering the capabilities and lifetimes of analytical instruments. Life and material sciences alike benefit from performance enhancements conferred to equipment formerly relegated to reliance on antiquated, mercury-containing lamps. In this webinar, Erich Zeiss and Iain Johnson, Ph.D., of Lumencor will present recent upgrades to solid-state lighting and how they apply to specific applications for biomedical and manufacturing professionals. They will also cover refreshed features of the SOLA light engine from Lumencor for 2021 and beyond.

Today's solid-state lighting provides turnkey illumination from a long-lasting, cool, quiet, compact box. Such solid-state lamps are now engineered to provide precise spectral, spatial, and temporal control of the lighting that drives quantitative instrumentation – for high-resolution imaging and measurement – enabling unprecedented reliability and reproducibility. In this webinar, the presenters will discuss lighting for fluorescence microscopy, high-content screening, diagnostic tests, endoscopy, robotic surgery, test and measurement equipment, and more, explaining how it can now be generated from entirely solid-state light sources. Superior power, stability, and consistency are hallmarks of such solid-state solutions, compared to traditional lamps.

The presenters will also discuss a refreshed family of SOLA light engines from Lumencor. SOLAs are tailor-made from a host of solid-state technologies that best match the spectra and power of any mercury lamp. The average lifetime of a SOLA is more than 10 years, while maintaining brightness and stability. Uniquely high-performing with respect to active power stabilization, linearized intensity control, and microsecond on/off times, SOLA is a proven leader in the field of technical lighting. With no maintenance and no replacement parts, it's worth asking: Why would anyone use an old mercury-containing arc lamp, when clean, solid-state lighting yields better results at more cost-effective prices?

Pictured: Mosquito larva's 'moustache,' illuminated using a SOLA light engine. Photo by Glyn Nelson, Newcastle University, and used with permission from Lumencor Inc.

Who should attend:
Anyone working with solid-state lighting for applications like fluorescence microscopy, in the life or materials sciences, seeking answers to in-the-field design or use questions. R&D scientists, QC professionals, and others who use or purchase lamps and wish to broaden their knowledge of solid-state lighting technology from a leader in the industry.

About the presenter:
Zeiss, Lumencor's senior global sales manager, microscopy, has over 25 years of experience providing service and instrumentation to the light microscopy marketplace. He works with researchers, re-sellers, engineers, and microscope companies to bring the benefits of solid-state lighting to the optics community. He has been a voice of the customer, a product development steward, and a sales manager throughout the company's expansive growth; email: erich.zeiss@lumencor.com.

Johnson is a biochemist with expertise in the biophysics of fluorescence microscopy. With numerous patents and publications to his credit, he is steeped in the physical chemistry of fluorescent and luminescent probes. Responsible for both technical support as well as technical marketing, his wealth of experience and insight fortifies Lumencor with deep resources to support state-of-the-art experimentation by its global network of OEM customers and end users; email: iain.johnson@lumencor.com.

About Lumencor:
Lumencor manufactures solid-state illuminators for equipment manufacturers in the industrial, material science, and life science marketplaces. Leading manufacturers of microscopes, profilometers, ellipsometers, and high-content screening instruments come to Lumencor for bright, stable, spectrally broad, reproducible, long-lived lighting. Off-the-shelf and tailored illuminator requests are encouraged.

.: Mark Your Calendar

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- Optical Tools for Analyzing and Repairing Complex Biological Systems, 12/15/2020 12:00:00 PM EST

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