Webinar

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FREE WEBINAR

New Directions in Microscopy Illumination

Join us for a Webinar on Wednesday, August 13, 2014

In optical microscopy, light is the messenger, carrying information from the sample to the viewer. Intriguing new light sources are opening new vistas for research, undergraduate education and community outreach.

Accelerating spectral pathology with QCL imaging

In Part 1 of this webinar, Dr. Michael Walsh of the University of Illinois at Chicago will discuss the impact of new, broadly tunable mid-infrared quantum cascade lasers (QCL) on microscopy.

A new hyperspectral imaging system fitted with QCL spectral imaging equipment provides a unique combination of high resolution IR imaging at a high signal-to-noise ratio over a wide field of view as well as real-time imaging at specific IR frequencies. In pathology, the new systems are used to image tissues rapidly to identify disease states based on the resulting spectral (biochemical) images.

New approaches to fluorescence stereo microscopy

Because of its selectivity and sensitivity, fluorescence has been the tool of choice for biologists, as well as for limited geologic, materials and semiconductor applications. Originally used on compound microscopes, fluorescence in the past five years has moved to stereo microscopy, but often only on expensive, high-end systems.

In Part 2 of this webinar, we'll explore how a new, economical approach has triggered rapid expansion of fluorescence stereo microscopy in both research and education. Dr. John Celenza of Boston University will discuss research applications using the green fluorescent protein reporter to monitor plant defense responses. Dr. Casey Roehrig of Harvard University will illustrate the use of fluorescence as a powerful tool for undergraduates to study both gene expression and protein localization. Jessie Herbert of the University of Montana SpectrUM Discovery Area will demonstrate how fluorescence enlivens community outreach in science with hands-on experiments in museums and on the road.

MARK YOUR CALENDAR

Date: Wednesday, August 13, 2014
Time: 1:00 p.m. EDT

Space is limited. Reserve your Webinar seat now at:
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SYSTEM REQUIREMENTS

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Required: Windows® 8, 7, Vista, XP or 2003 Server

Mac®-based attendees
Required: Mac OS® X 10.6 or newer

Mobile attendees
Required: iPhone®, iPad®, Android™ phone or Android tablet

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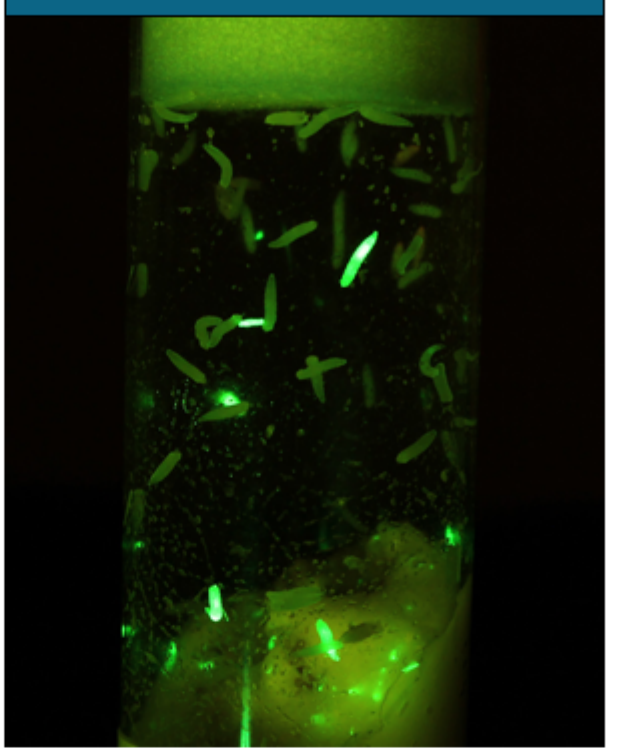

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