Adaptive Optics for Microscopy

Join us for a Webinar on October 23

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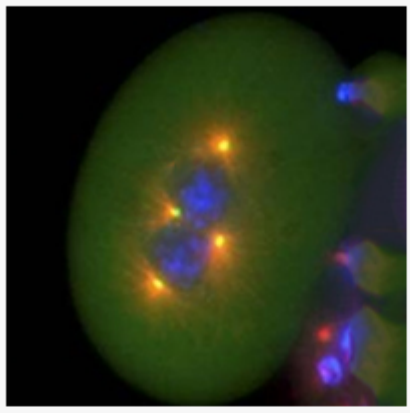

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Free Webinar

"Enabling Structured Illumination Microscopy in Thick Tissue with Adaptive Optics"
Peter Kner
College of Engineering, University of Georgia

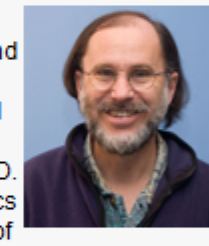
Superresolution Microscopy allows bioimaging of samples with resolutions significantly better than the 250 nm resolution achievable with diffraction limited imaging. Dr. Kner will discuss efforts to apply adaptive optics to microscopy and to extend superresolution microscopy to thicker tissue using AO.

"Adaptive Optical Microscopy using Direct Wavefront Sensing"
Joel Kubby
Professor & Chair, Electrical Engineering Department, Baskin School of Engineering, UC Santa Cruz.

A review of the development of wide-field and confocal microscopes with direct wavefront sensing and adaptive optics for correcting aberrations when imaging through thick tissues. Professor Kubby's group has modified laser guide-star techniques used in astronomy for measuring wavefront aberrations that occur as star light passes through Earth's turbulent atmosphere.

Speakers:

Peter Kner received his PhD in physics from the University of California Berkeley in 1998 in the field of ultrafast spectroscopy. After graduating, he joined a Silicon Valley startup developing semiconductor lasers. In 2004, he started working in the field of microscopy, working with John Sedat and Mats Gustafsson at UCSF, where he built the first microscope capable of live structured illumination microscopy. He joined the engineering faculty at the University of Georgia in January, 2009.



Joel Kubby's research is in MEMS with applications in Optics, Imaging (Biological and Astronomical), Fluidics and Bio-MEMS. Prior to joining UC Santa Cruz, he was a manager with the Xerox Wilson Center for Research and Technology and was at the Bell Telephone Laboratories working in Scanning Tunneling Microscopy. He has a Ph.D. in Applied Physics from Cornell University, a B.A. in Physics from the University of California Berkeley and is co-chair of the SPIE Silicon Photonics and MEMS Adaptive Optics conferences.

Title: *Adaptive Optics for Microscopy*
Date: Wednesday, October 23, 2013
Time: 1:00 PM - 2:00 PM EDT

After registering you will receive a confirmation email containing information about joining the Webinar.

System Requirements
PC-based attendees
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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