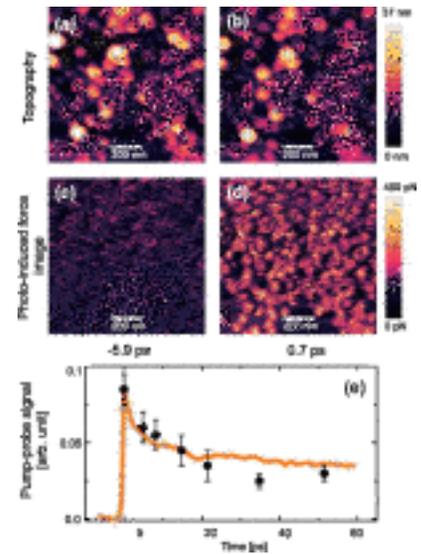


OSSC Annual Business Meeting, Election Results, Fellows, induction, and Presentation on: “Nonlinear optics to the rescue” Dr. Eric Potma

Wouldn't it be great if we could peek into our own tissue and generate images of our cells at high resolution and in a completely noninvasive manner? Such a capability would certainly transform our diagnostic abilities of detecting disease at a very early stage. None of the current biomedical imaging techniques is capable of producing full body images at cellular resolution, however, some nonlinear optical imaging techniques do a pretty good job at visualizing superficial tissues. Imaging techniques like two-photon excited fluorescence, second-harmonic generation and coherent Raman scattering have recently been used with great success in clinical settings. They detect and map cells in the body in real-time, without any labels and

in a noninvasive way. In this talk, we will discuss some of these new optical imaging approaches, explain how they work and what we may expect from them in years to come.



About our speaker: Born and raised in the Netherlands, Eric Potma got his Masters at the University of Groningen in 1996. He stayed five more years for his graduate research, which he completed in 2001. While working in the ultrafast spectroscopy group of Prof. Douwe Wiersma, Eric focused his research on the development of laser sources for microscopy and the application of nonlinear methods to optical imaging. In 2001, Potma joined the group of Prof. Sunney Xie at Harvard University as a postdoctoral fellow. During this time, he was been involved with projects on synchronizing mode-locked lasers, visualizing lipid bilayers with CARS microscopy and vibrational imaging of tissue *in vivo* at video rate. In 2005, Eric joined the Department of Chemistry at the University of California in Irvine, where he currently is an Associate Professor. His group focuses on the characterization of nanostructures and complex biological materials with

the aid of new optical imaging techniques.

Wednesday, June 15, 2016

Reception: 6:00; Dinner: 7:00 (chicken or snapper, veg. option available)

Business meeting, Fellows induction, and talk: 7:45

Cost: \$40 for dinner if registered by June 10, \$45 after

OSSC Student Members: free if registered by June 10, \$15 after.

Location: [Luminarias Restaurant](#)

3500 W. Ramona Blvd.

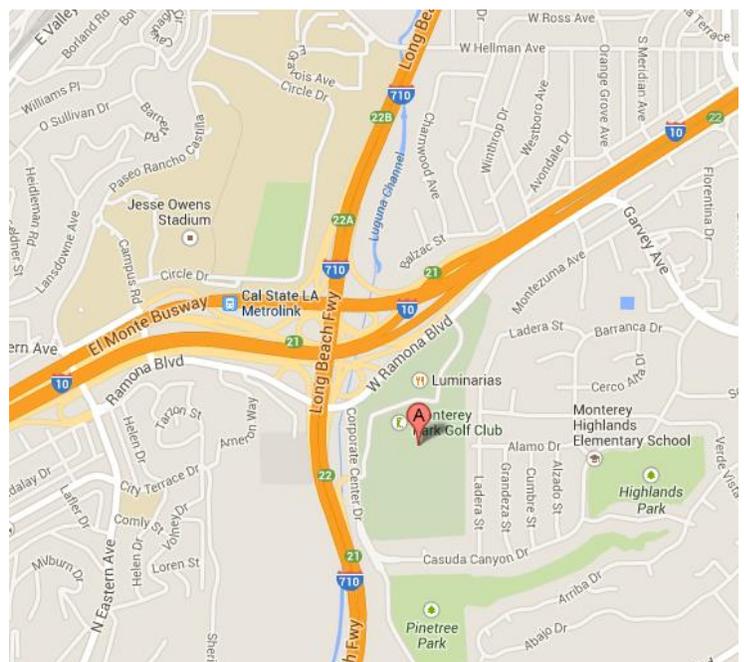
Monterey Park, CA 91754

Phone: 323-268-4363

On-line Registration: www.osscc.org or

Contact: Bo Wang, Events@osscc.org,

714-420-8234



Please post this notice and invite your friends & colleagues to attend!