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Ann Arbor Section of the Optical Society of America

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PUBLIC MEETING NOTICE

Tuesday, 17 September 2013, 7:00-9:00 pm
Location: U-M EECS, Room TBD

Electrical Engineering & Computer Science Building
North Campus, University of Michigan
Ann Arbor, MI 48109

Biomedical Optics for Clinical Diagnostics

Mary-Ann Mycek, Ph.D.
University of Michigan, Biomedical Engineering Dept.,
Applied Physics Program, Core Member - Comprehensive Cancer Center
College of Engineering & School of Medicine, Ann Arbor MI

Abstract: Biomedical Optics is a multidisciplinary field incorporating elements of the physical and life sciences, engineering, and medicine. Our translational research program in Biomedical Optics develops tools and methods to quantitatively assess biological tissues in vivo, with a goal of impacting clinical care by creating non- and minimally-invasive optical diagnostic technologies. This presentation will provide an overview of our research on clinical optical diagnostics for two application areas: (1) optical molecular imaging for tissue engineering and regenerative medicine; (2) tissue optical spectroscopy for minimally-invasive disease detection at endoscopy.

Bio-sketch: Mary-Ann Mycek, Ph.D., is a Professor in the Biomedical Engineering Department at the University of Michigan. She received her Ph.D. in Physics from U.C. Berkeley, where she specialized in condensed matter physics and ultrafast optical spectroscopy, before pursuing postdoctoral training in laser medicine at Massachusetts General Hospital and Harvard Medical School. At the University of Michigan, she established the Biomedical Optical Diagnostics Laboratory: http://www.bme.umich.edu/labs/mycek/ . Her translational research program includes basic (pre-clinical), applied (clinical), and computational research toward quantitative, non-invasive, optical sensing and imaging in cells and tissues.

Map to seminar site: www.umich.edu/~newsinfo/umnc.html (or see AA OSA website). Free parking after 6 pm east of the Lurie Engineering Building (at the intersection of Beal & Bonisteel). This year, we will NOT be meeting at Paesano's Restaurant prior to the seminar for regular talks.

Next AA OSA Meeting: Tuesday, 08 October 2013

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