



Medical Physics Seminar



Monday, November 12th 2018

1345 HSLC ~ 4:00 P.M.



Brian Pogue, PhD

MacLean Professor of Engineering
Professor of Physics & Astronomy
Professor of Surgery, Geisel School of Medicine
Dartmouth College
Hanover, NH

Invited guest of Kevin Eliceiri

Optical Imaging Advances in Surgery & Radiation Therapy

Medical imaging today can appear to be dominated by radiologic x-ray, ultrasound and MRI, yet the technical device market sector of optics in medicine is nearly twice the size of all of radiology. The strengths of optical imaging are features such as molecular sensitivity, ultrawide ranges of resolution, commercial packaging for low cost, and safety and ease of use, all make optical tools the ideal for 'point-of-care'. Optics is also the choice for high end analytics such as genomics and proteomics. Areas of growth and opportunity are in bringing these more advanced tools to the patient diagnosis, for either faster or more accurate decision making. Examples of new systems in medicine will be illustrated from molecular guided surgery and non-invasive radiation dosimetry.

This seminar is sponsored by:

UW Madison SPIE/OSA student chapter

Morgridge Multiscale Imaging Seminar Series

1345 Health Sciences Learning Center (HSLC) 4:00 - 5:00 P.M.