



## Department of Biomedical Engineering



Johns Hopkins School of Medicine and the Whiting School of Engineering

### Jeffrey Siewerdsen, PhD

Associate Professor

Department of Biomedical Engineering  
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**Monday, October 5, 2009 at 1:30**

School of Medicine, Talbot Library,  
Traylor 709

Video-Teleconferenced to the Rome Room,  
Clark 110

Light lunch will be provided in Traylor 709

### **Image Science and IG Interventions: Projects and Collaborations in the I-STAR Lab**

A new program of research in Biomedical Engineering focuses on issues of fundamental image science, technology development, and translation to diagnostic and image-guided procedures. Under the direction of Dr. Jeff Siewerdsen and with core emphasis in areas of digital x-ray imaging, cone-beam CT, and surgical navigation, the program offers a collaborative research environment in BME, medical physics, computer science, and clinical specialties in surgery, radiotherapy, and radiology. This seminar gives an overview of projects and collaborations underway in the "Imaging for Surgery, Therapy, and Radiology" (I-STAR) Lab, including: 1.) imaging task as a bridge between detector-based and observer-based performance assessment; 2.) new technology for 3D extremities imaging for orthopaedics and musculoskeletal radiology; and 3.) high-performance cone-beam CT for surgical guidance.

Upcoming Seminar:s

October 12: Ragat Mittal, Johns Hopkins University

October 19: Art Shoukas, Johns Hopkins University

<http://www.hopkinsmedicine.org/ibbs/news/events.html>

<http://www.hopkinsmedicine.org/scical>

<http://www.bme.jhu.edu>

For more information call 410-955-3132