

Joint Department of

BIOMEDICAL ENGINEERING



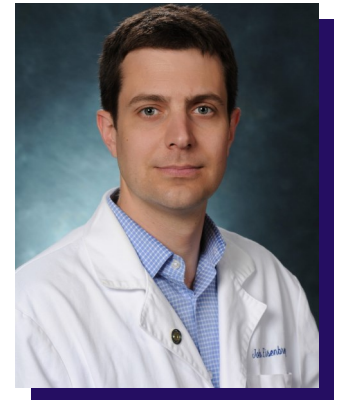
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C o u l t e r S e m i n a r S e r i e s P r e s e n t s

“Recent advances in diagnostic and therapeutic contrast-enhanced ultrasound”

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John Eisenbrey is an Associate Professor of Radiology at Thomas Jefferson University. He completed Bachelor's degrees in Mechanical Engineering and Management at The University of Delaware, followed by his PhD in Biomedical Engineering at Drexel University where he worked with Dr. Margaret Wheatley on the fabrication of ultrasound-sensitive drug carriers. Following his PhD he joined Thomas Jefferson University as a Postdoctoral Fellow in Radiology, working with Flemming Forsberg. His current research interests include nonlinear ultrasound, contrast-enhanced ultrasound, image-guided drug delivery, interventional oncology, and photoacoustic imaging.

ABSTRACT

As an imaging modality, ultrasound imaging is poised for growth due to its cost, availability, portability, and lack of ionizing radiation. Ultrasound-sensitive gas microbubbles (termed ultrasound contrast agents) can also be used to greatly improve ultrasound's ability to detect and quantify blood flow in a variety of clinical scenarios. These agents are unique in that their vibration and destruction can be controlled by the ultrasound wave, thereby generating localized bioeffects and a myriad of opportunities for targeted drug delivery. This talk will focus on recent advances from our group in both diagnostic and therapeutic contrast-enhanced ultrasound. Highlighted work will range from early preclinical work to larger, multi-center trials and cover a wide variety of topics including interventional oncology procedure monitoring, noninvasive pressure estimation, radiotherapy sensitization, localized drug delivery, and lymphatic imaging.

Friday, November 4th
12:00 Noon

Presented From: 321 MacNider Hall (UNC)

Videoconferenced to: 4142 Engineering Building III (NC State)
& East Carolina University (ECU)