



Department of  
Biomedical Engineering  
UNIVERSITY OF WISCONSIN-MADISON

Spring 2019 Seminar Series

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# Structural and Functional Imaging of Tissues with Optical Coherence Tomography/ Elastography

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**Professor of Biomedical Engineering**  
**University of Houston**



Development of novel methods for structural and functional imaging, monitoring and quantification of different biological processes in tissues and small organs has gained tremendous interest in view of the varied applications of Biomedical Optics. In this talk I will overview several research projects in the Biomedical Optics Lab on development and applications of Optical Coherence Tomography technique for structural and functional imaging of different tissues, including imaging of mammalian embryonic development and quantifying biomechanical properties of different tissues.

*Dr. Larin's research interests include biomedical engineering/optics with particular emphasis on diagnostic imaging, biosensing, microscopy and classification of tissues. He received an M.S. in Laser Physics and Mathematics from Saratov State University in 1995, an M.S. in Cellular Physiology and Molecular Biophysics from the University of Texas Medical Branch in Galveston in 2001 and a Ph.D. in Biomedical Sciences and Biomedical Engineering from the University of Texas Medical Branch in Galveston in 2002. Before joining UH in 2004, Larin completed a postdoctoral fellowship at UT-Galveston in the area of Biomedical Engineering and Optics.*



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**Sponsored by the Morgridge Multiscale Imaging Seminar Series**

**Monday, January 28, 2019**  
**12 PM in Tong Auditorium (1003 Engineering Centers)**