

Imaging Symposium: Biomedical, Materials, and Computational
Saturday, April 23, 2016
LSU Digital Media Center Theatre
Center for Computation & Technology

9:00-9:10	Michael Mathis, Ph.D., LSU School of Veterinary Medicine	Introduction
Session 1: Computation In Imaging		
Moderator: Kip Matthews, Ph.D., LSU Dept of Physics and Astronomy		
9:10-10:00	Marcus Hanwell, Ph.D., Technical Leader, Scientific Computing, Kitware, Inc.	"Tomviz: An Open Source Platform for Tomographic Reconstruction"
10:00-10:20	Xin Li, Ph.D., School of Electrical Engineering & Computer Science	"Reliable Data Matching and Correlation for Medical, Forensic, and Robotic Image Analysis"
10:20-10:40	Clint Willson, Ph.D., Dept. of Civil & Environmental Engineering	"Applying Local X-ray CT to Investigate Pore-scale Mineralogical & Flow Properties in Porous Media"
10:40-11:00	Karsten Thompson, Ph.D., Dept. of Petroleum Engineering	"Multiscale image-based modeling of porous materials"
11:00-11:20	Coffee Break	
Session 2: Biological and Inorganic Imaging		
Moderator: Les Butler, Ph.D., LSU Dept of Chemistry		
11:20-12:10	Carol J Hirschmugl, Ph.D., University of Wisconsin-Milwaukee	"2D Widefield Microspectroscopy, 3D Spectromicrotomography and 2D Nanoscale AFM-IR"
12:10-12:30	Amanda Cozic, D.V.M., Dept. of Biological Sciences	"How Birds Sing: Integrating Cutting-Edge Morphology, 3D Animation, & Physical Modeling"
12:30-1:15	Lunch and Posters	
1:15-1:35	Heather McKillop, Ph.D., Dept. of Geography & Anthropology	TBA
1:35-1:55	Rosana Di Mauro, Ph.D., Dept. of Oceanography & Coastal Sciences	"The Role of Imaging in Marine Research"
1:55-2:15	Dan Hayes, Ph.D. LSU AgCenter, Dept. Biological and Agricultural Engineering	TBA
Session 3: Biomedical Imaging		
Moderator: Owen Carmichael, Ph.D., Pennington Biomedical Research Center		
2:15-3:05	Kurt R. Zinn, D.V.M., Ph.D., University of Alabama at Birmingham	"The Future of Molecular Imaging in Healthcare Delivery"
3:05-3:25	Joyoni Dey, Ph.D., Dept. of Physics and Astronomy	"A Third Generation Cardiac SPECT Gamma Camera"
3:25-3:40	Guang Jia, Ph.D., Dept. of Physics and Astronomy	"MR Elastography"
3:40-4:00	Coffee Break	
4:00-4:20	Steve Greening, Ph.D., Dept. of Psychology	"Individual differences in the functional and structural networks of fear and anxiety"
4:20-4:40	David Burk, Ph.D., Pennington Biomedical Research Center	"Light Imaging Capabilities of the CBBC and SIF"
4:40-5:00	Mandi J. Lopez, D.V.M., Ph.D., LSU School of Veterinary Medicine	"Of Mice and Men (and Everything in Between): Imaging for Translational Research"