HARRINGTON SYMPOSIUM Optical Methods in Quantitative Bio-Imaging

Concept to Application

Thursday, June 27th, 20245th Floor | Gary L. Thomas Energy Engineering Building

7:30 AM	Breakfast
8:30 AM	Opening Remarks
	Yoav Shechtman & Shwetadwip Chowdhury, Conference Organizers
	Sharon Wood, Executive Vice President and Provost
	Don Siegel, Department Chair, Walker Department of Mechanical Engineering
9:00 AM	Session 1 Chair, Yoav Shechtman
	Andrew Dunn, The University of Texas at Austin
	In Vivo Microscopy of Microvasculature Following Brain Injury
	Dvir Yelin, Technion – Israel Institute of Technology
	Toward Noninvasive Blood Count
	Charles Lin, Massachusetts General Hospital and Harvard University
	Imaging the Hematopoietic System: From Blood Stem Cells to Mature Leukocytes
10:30 AM	Break
11:00 AM	Session 2 Chair, Andrew Dunn
	Francisco Robles, Georgia Institute of Technology
	Accessible Optical Imaging Tools for Label-Free Molecular Imaging and 3D Microscopy
	Adela Ben-Yakar, The University of Texas at Austin
	LEAD Fluorescence Microscopy Performing at 100's kHz Frames Per Second for 3D-Imaging Flow
	Cytometry and Brain Imaging
	Melissa Skala, University of Wisconsin-Madison
	Autofluorescence Imaging of Immune Cell Metabolism
12:30 PM	Lunch
1:30 PM	Session 3 Chair, Adela Ben-Yakar
	Seemantini Nadkarni, Massachusetts General Hospital and Havard University
	Wideband Micromechanical Mapping of the Extra-Cellular Matrix Landscape
	James Tunnell, The University of Texas at Austin
	Implantable SERS Biosensor for Monitoring Cancer Treatment Response
	Amit Meller, Technion – Israel Institute of Technology
	Electro-optical sensing of single protein biomarkers in nanopores and nanochannels: towards digital proteomics
3:00 PM	Break
3:30 PM	Session 4 Chair, James Tunnell
	Junije Yao. Duke University
	From Technology to Discovery: Deeper Faster and Colorful Photoacoustic Imaging in Life
	Sciences
	Hafeez Dhalla, Duke University
	The Inevitable Convergence of Robotics and OCT
	Tribute to Joseph Izatt
5:00 PM	Poster Session 1
	2 nd Floor, Gary L. Thomas Energy Engineering Building
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HARRINGTON SYMPOSIUM **Optical Methods in Quantitative Bio-Imaging Concept to Application**

Friday, June 28th, 2024

5th Floor | Gary L. Thomas Energy Engineering Building

7:00 AM	Breakfast
8:00 AM	 Session 5 Chair, Yoav Shechtman Alex Walsh, Texas A&M University Machine Learning to Enhance Metabolic Specificity of Autofluorescence Lifetime Imaging Shalin Mehta, Chan Zuckerberg Biohub San Francisco Mapping Cellular Dynamics of Viral Infection with Computational Microscopy and Deep Learning Laura Waller, University of California, Berkeley Computational Microscopy with Dynamic Samples
9:30 AM	Break & Poster Session 2 2 nd Floor, Gary L. Thomas Energy Engineering Building
11:00 AM	Session 6 Chair, Shwetadwip Chowdhury Tomasz Tkaczyk, Rice University Technology for Integrated Optical Systems for Biomedical Diagnostics Elizabeth Hillman, Columbia University Harnessing the Power of High-Speed 3D Microscopy for Diverse Biomedical Applications Ed Boyden, Massachusetts Institute of Technology Optical Tools for Analyzing and Repairing Biological Systems
12:30 PM	Closing Remarks Tyrone Porter, Department Chair, Department of Biomedical Engineering Yoav Shechtman & Shwetadwip Chowdhury, Poster Winners Announced
12:45 PM	Lunch