

New Laser Scientist Conference Program

October 17-18, 2016

Sponsored by the American Physical Society Division of Laser Science

Radisson Hotel Rochester Riverside

	MONDAY, October 17th (Genesee Suite F)
8:00 – 8:30	Breakfast & Welcome (Jones and Weinacht)
8:30 – 8:45	<i>Perspectives on Being a Laser Scientist I</i> Luis Orozco, University of Maryland and Joint Quantum Institute
8:45-9:00	<i>Perspectives on Being a Laser Scientist II</i> Brett Pearson, Dickinson College
9:00-10:00	<i>Panel Discussion</i> (Jason Jones, Tom Weinacht, Luis Orozco, Brett Pearson)
10:00 – 10:20	Coffee Break
10:20 – 10:40	Dylan Yost, Colorado State University <i>Two-Photon Laser Cooling of Atomic Hydrogen</i>
10:40 – 11:00	Howard Lee, Baylor <i>Gate-tunable conducting oxide metasurfaces for imaging devices</i>
11:00 – 11:20	Nathalie P. de Leon, Princeton <i>Surface Science and Nanoscale Spectroscopy with Color Centers in Diamond</i>
11:20 - 11:40	Robert Baker, Ohio State University <i>Probing Charge Transfer at Electrochemical Interfaces Using Nonlinear XUV Spectroscopy</i>
11:40 – 12:00	Daniel Rolles, Kansas State University <i>Imaging Ultrafast Dynamics in Polyatomic Molecules</i>
12:00 – 1:10	Lunch Break (Genesee Suite E)
1:10 - 1:40	<i>Perspectives on Funding I</i> Jeff Krause & Thomas Settersten, DOE AMO Program Director (web conference)
1:40 - 2:00	Paul Hamilton, UCLA <i>Quantum tests of the dark universe and gravity</i>
2:00 – 2:20	Eden Figueroa, Stony Brook University <i>Full temporal characterization of interacting photon wave-functions using real-time multi-mode quantum measurements</i>
2:20 – 2:40	Michelle Sander, Boston University <i>Pulse dynamics in thulium-holmium co-doped fiber lasers</i>
2:40 – 3:00	Douglas Jahn, Coherent Inc. <i>Science and Technology at Coherent</i>
3:00 – 3:30	Coffee Break sponsored by Coherent Inc.

3:30– 3:50	Carlos Baiz, University of Texas at Austin <i>Developing new ultrafast infrared methods to probe biological interfaces</i>
3:50-4:10	Franklin Dollar, UC Irvine <i>Highly relativistic laser plasma interactions with short pulse, mid-infrared pulses</i>
4:10-4:30	Arne Schwettmann, University of Oklahoma <i>Matter-wave quantum optics in antiferromagnetic spinor gases</i>
4:30 – 5:30	<i>Perspectives on Funding II</i> John Gillaspy, NSF AMO Program Director
5:30 – 6:30	Happy Hour sponsored by M² Lasers
6:30 – 9:00	Banquet sponsored by DLS & Coherent (Genesee Suite E)
	TUESDAY, Oct. 18
8:00-8:20	Breakfast
8:20-8:40	Chen-Lung Hung, Purdue <i>Analogue gravity and non-equilibrium dynamics in strongly correlated quantum gases</i>
8:40 – 9:00	Sufei Shi, RPI <i>Exploring Fast Carrier Dynamics in VdW Heterostructure</i>
9:00 – 9:20	Jesse Wilson, Colorado State University <i>Novel techniques for label-free metabolic microscopy</i>
9:20 – 9:40	Jeff Thompson, Princeton <i>Optical control of strongly interacting spins in the solid-state</i>
9:40 – 10:00	Imad Agha, University of Dayton <i>Lithium Niobate on Silicon Platform for Applied telecommunications and quantum information</i>
10:00 – 10:30	Phil Richerme, Indiana University <i>Programmable 2D Arrays of Interacting Quantum Spins Using Trapped Ions</i>
10:30 – 10:45	Coffee Break
10:45 – 11:30	Mock Panel Review: small group discussion/evaluation of abstracts
11:30 – 12:00	Report of group evaluation of proposal abstracts
12:00	Closing remarks & Lunch (boxed)

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