

Southeast Ultrafast Conference 2018

August 14th, 2018

8:00am	Welcome
9:00am	<p>Plenary Session</p> <p>New Directions in Nonlinear Laser Microscopy Improve Diagnosis of Metastatic Potential Warren S. Warren, Ph.D. Chair, Department of Physics, Duke University James B. Duke Professor, Chemistry, Physics, Radiology, Biomedical Engineering Director, Center for Molecular and Biomolecular Imaging</p>
10am	<p>Spatial and spectral multiplexed vibrational imaging with Stimulated Raman scattering spectroscopic optical coherence tomography. Paco Robles, Ph.D. Assistant Professor Wallace H. Coulter Dept. of Biomedical Engineering Georgia Institute of Technology and Emory University</p>
10:40am	<p>Directly Probing Surface Trap States with Electronic Sum Frequency Generation Tessa Calhoun, Ph.D. Assistant Professor Department of Chemistry University of Tennessee Knoxville</p>
11:20am	<p>Ultrafast Spectroscopy with Frequency Combs: the What, Why, and How Melanie Reber, Ph.D. Assistant Professor Department of Chemistry University of Georgia</p>
12:00pm	Lunch
1:00pm	<p>Ultrafast charge transfer at the 2D-TMD/perovskite Heterostructure Aziz Boulesbaa, Ph.D. Assistant Professor College of Science and Math California State University Northridge</p>
1:40pm	<p>Coherent Phonon in Hybrid Perovskite Materials He Wang, Ph.D. Assistant Professor Department of Physics University of Miami</p>
2:20pm	<p>Optically excited Fermi degenerate states in 2D TMDCs Kenan Gundogdu, Ph.D. Associate Professor Department of Physics North Carolina State University</p>
3:00pm	<p>Solar Hydrogen from CdSe/CdS Nanorod-[NiFe] Hydrogenase Assemblies: Balancing Electron Transfer Rate and Driving Force Brian Dyer, Ph.D. Samuel Candler Dobbs Professor Department of Chemistry Emory University</p>

3:40pm	Surprise Talk! Andrew Mount, Ph.D. Research Assistant Professor and Lecturer Clemson University Department of Biological Sciences
4:30pm	Poster Session

August 15th, 2018

8:30am	Welcome Back
9am	A novel attosecond driving laser centered at 2.5 μm based on Cr:ZnSe Zenghu Chang, Ph.D. University Trustee Chair, Pegasus and Distinguished Professor of Physics, Optics & Photonics CREOL, The College of Optics and Photonics University of Central Florida
9:40am	Quantum Confinement and Superradiant Emission in a Landau-quantized Electron Gas David Hilton, Ph.D. Associate Professor Department of Physics University of Alabama at Birmingham
10:20am	Control of radiative processes of nanomaterials using tunable plasmonic nanostructures: towards highly efficient and ultrafast nanophotonics Thang Hoang, Ph.D. Assistant Professor Department of Physics and Materials Science University of Memphis
11:00am	Brunch break
12:00	Ultrafast laser material processing: From a technological niche to an enabling manufacturing tool Xiaoming Yu, Ph.D. Assistant Professor CREOL, The College of Optics and Photonics University of Central Florida
12:40pm	Effects of repetition rate and spot size on residual stress by laser shock peening Xin Zhao, Ph.D. Assistant Professor Department of Mechanical Engineering Clemson University
1:20pm	Recent Developments in Pulse-Measurement: Coherent Artifacts, Spatiotemporal Measurements, and Algorithm Speedup Rana Jafari Graduate Student – Trebino Group Department of Physics Georgia Institute of Technology
2:00pm	Thank you and goodnight!