



Basic Research Innovation Collaboration Center  
 4100 North Fairfax Drive, Suite 450 | Research Room  
 Arlington, VA 22203

**Agenda Day 1 | Thursday, November 21, 2019**

Time	Topic	Speaker
8:00	Registration	
<b>Thursday, Nov. 21 MURI-9 Studying ultrafast electron dynamics in condensed matter with next generation attosecond x-ray sources</b>		
<b>Session 1 Chair: Steve Leone</b>		
8:30	Opening remarks	Andrew Stickrath (AFOSR)
8:40	<b>High power MIR lasers for generating attosecond water window X-rays</b>	Zenghu Chang (Lead PI), University of Central Florida
9:20	<b>Two-source transient absorption spectroscopy</b>	Stephen Hageman, for Lou DiMauro, Ohio State University
9:50	<b>Femtosecond dynamics in the liquid phase</b>	Blake Erickson, for Daniel Neumark, University of Calif. Berkeley
10:20	<b>BREAK</b>	
<b>Session 2 Chair: Mark Stockman</b>		
10:50	<b>Attosecond materials dynamics</b>	Steve Leone, University of California Berkeley
11:20	<b>Attosecond waveform metrology in solids</b>	Matthew Weidman, for Ferenc Krausz, Max Planck Institute of Quantum Optics
11:50	Group photo	
12:00	<b>Lunch and student poster presentations</b>	
<b>Session 3 Chair: Matthew Weidman</b>		
1:30	<b>Ultrafast strong-field processes in transition metal dichalcogenides and topological insulators</b>	Mark Stockman, Georgia State University
2:00	<b>Towards attosecond pump-probe measurement of plasmon dynamics</b>	Paul Corkum, University of Ottawa
2:30	<b>BREAK</b>	

Start of MURI-1 Post-Born-Oppenheimer dynamics using isolated attosecond pulses		
<b>Session 4 Chair: Bill McCurdy</b>		
<b>3:00</b>	<b>Ultrafast non-adiabatic relaxation in XUV excited molecule</b>	Alexander Kuleff for Lenz Cederbaum, University of Heidelberg
<b>3:30</b>	<b>Nonadiabatic Transitions via Conical Intersections at Ultralow Temperatures</b>	Svetlana Kotochigova, Temple University
<b>4:00</b>	Discussion of MURI-9	
<b>4:30</b>	<b>End of the first day</b>	

<b>Agenda Day 2   Friday, November 22, 2019</b>		
<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
<b>8:00</b>	<b>Registration</b>	
<b>Friday Nov. 22 MURI-1 continued</b>		
<b>Session 5 Chair: Zenghu Chang</b>		
<b>8:30</b>	Opening remarks	Jim Parker/Richard Hammond (ARO)
<b>8:40</b>	<b>MURI-1 Overview and attosecond XUV probing of potential-crossing molecular dynamics</b>	Steve Leone, University of California Berkeley
<b>9:20</b>	<b>Multielectron excitations and nonadiabatic processes</b>	Arvinder Sandhu, University of Arizona
<b>9:50</b>	<b>Tracking electronic-coherence dynamics with attosecond transient absorption spectroscopy</b>	Yuki Kobayashi, for Daniel Neumark, University of California Berkeley
<b>10:20</b>	<b>BREAK</b>	
<b>Session 6 Chair: Arvinder Sandhu</b>		
<b>10:50</b>	<b>Theory of attosecond processes in atoms and molecules</b>	C. William McCurdy, University of California Davis
<b>11:20</b>	<b>Attosecond transient absorption spectroscopy at nitrogen K edge</b>	Zenghu Chang, University of Central Florida
<b>11:50</b>	<b>From atto-science to generating large isolated magnetic fields transients</b>	Paul Corkum, University of Ottawa, Canada
<b>12:20</b>	Discussion of MURI-1 and close out by Jim Parker/Richard Hammond (ARO), Andrew Stickrath (AFOSR)	