

2017 Joint-Attosecond-MURI Annual Meeting
Ohio State University, Columbus OH
November 16 and 17 (Thursday & Friday), 2017

Thursday, Nov. 16 MURI-9 Studying ultrafast electron dynamics in condensed matter with next generation attosecond x-ray sources

Session 1 Chair: Steve Leone

8:20 am Welcome remarks, Dean Christopher Hadad (NMS Divisional Dean, OSU)

8:30 am Opening remarks, Enrique Parra (AFOSR)

8:40 am Zenghu Chang (Lead PI), University of Central Florida

53-as X-rays reach Carbon K-edge

9:20 am Louis DiMauro, Ohio State University

High harmonic spectroscopy of an optically doped semiconductor

9:50 am Daniel Neumark, University of California Berkeley

Femtosecond and attosecond dynamics in solids and liquids

10:20 am **Coffee break**

Session 2 Chair: Mark Stockman

10:50 am Steve Leone, University of California Berkeley

Attosecond transient reflectivity and absorption in solids

11:20 am Ferenc Krausz/Matthew Weidman, Max Planck Institute of Quantum Optics

High harmonic generation using a 2.1 μm OPA

11:50 am Group photo

12:00 pm Lunch and student poster presentations

Session 3 Chair: Matthew Weidman

1:30 pm Mark Stockman, Georgia State University

Theoretical predictions and description of attosecond process in three- and two-dimensional solids

2:00 pm Paul Corkum, University of Ottawa

Linking attosecond science in solids and gases

2:30 pm **Coffee break**

Session 4 Chair: Dan Neumark

3:00 pm Cosmin Blaga (AFOSR YIP), Ohio State University

Wavelength tunability as a tool for strong field physics

3:30 pm Wen Li, Wayne State University (ARO Young Investigator Award)

Ultraslow dynamics probed with an ultrafast laser

4:00 pm Rodney J. Bartlett, University of Florida

EOM-CC methods for core ionization and excitation

4:30 pm Discussion of MURI-9

5:00 pm OSU lab tours

6:30 pm Dinner, 2nd floor Pfahl Hall

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Friday Nov. 17 MURI-1 Post-Born-Oppenheimer dynamics using isolated attosecond pulses

Session 5 Chair: Zenghu Chang

8:30 am Opening remarks, Jim Parker/Richard Hammond (ARO)

8:40 am Steve Leone, University of California Berkeley

Attosecond time-resolved chemical dynamics

9:20 am Arvinder Sandhu, University of Arizona

Light-induced modification of molecular dynamics

9:50 am Daniel Neumark, University of California Berkeley

Attosecond photochemistry

10:20 **Coffee break**

Session 6 Chair: Arvinder Sandhu

10:50 am Lorenz Cederbaum/Alexander Kuleff, University of Heidelberg

Electronic decay through carbon chains

11:20 am C. William McCurdy, University of California Davis

New Electron Dynamics Capability for Ionization of Polyatomics and Coherence in Attosecond Molecular Ionization

11:50 am Zenghu Chang, University of Central Florida

Probing electron dynamics with Water Window X-rays

12:20 pm Paul Corkum, University of Ottawa, Canada

Gain in N₂⁺ following high-harmonic generation

12:50 pm Discussions about MURI-1 program and close out by Jim Parker/Richard Hammond (ARO), Enrique Parra (AFOSR) and bag lunches provided for travel