



**MURI MIR**  
The Ohio State University  
Physics Research Building  
191 West Woodruff Avenue  
Columbus, OH, 43235

## Fundamental Strong-Field Interactions with Ultrafast, Mid-Infrared Lasers

Award Number: FA9550-16-1-0013

### Year 2 Principal Investigator Meeting

<http://muri-mir.osu.edu/>

## TALK SCHEDULE

*Tuesday, April 18, 2017*

Time	Speaker	Affiliation	Title
8:00	Welcome reception		Coffee and pastries
Session 1 Chair: Zenghu Chang			
8:30	Riq Parra	AFOSR	Welcoming remarks, Questions
8:40	Robert Deas	DSTL-UK	Welcoming remarks, Questions
8:50	Louis DiMauro	OSU	US MURI Overview
9:10	Roland Smith	Imperial	UK MURI Overview
9:40	Ken Schafer	LSU	XUV-driven strong field control of recollision: breaking open the three-step model
10:10	Coffee break		
Session 2 Chair: Ken Schafer			
10:30	Marco Ruberti	Imperial	Coherence in molecular strong field ionization by MIDIR pulses.
11:00	Gennady Shvets	Cornell	Particle Acceleration Using the Combination of Mid-IR and Near-IR Laser Pulses
11:30	Esben Larsen	Imperial	Progress report on booster amplifier for few cycle laser idler for high flux soft x-ray harmonics.
12:00	Lunch and posters		
Session 3 Chair: Lou DiMauro			
2:00	Karl Krushelnick	Michigan	Overview of Mid-IR research at UC-based AFOSR MURI
2:30	Enam Chowdhury	OSU	Femtosecond MIR laser induced damage to semiconductors
2:50	Nick Karpowicz	MPQ	Infrared work being pursued at MPQ
3:10	Jeffrey Brown	LSU and Ecole Polytechnique	Modeling the propagation of mid-infrared laser pulses
3:30	Francois Légaré	ALLS	Multi-TW two-cycle laser pulses at 1.8 micron using Frequency domain Optical Parametric Amplification
3:50	Hyunwook Park	OSU	Intense mid-infrared laser-cluster interactions
4:10	Cosmin Blaga	OSU	Scaling up kHz OPA systems at MIR wavelengths.
4:30	OSU lab tours		
6:30	Dinner at Blackwell		3 <sup>rd</sup> floor of Pfahl Hall break area



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*Wednesday, April 19, 2017*

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<b>Time</b>	<b>Speaker</b>	<b>Affiliation</b>	<b>Title</b>
8:00	Welcome reception		Coffee and pastries.
Session 4 Chair: Roland Smith			
8:30	Stuart Mangles	Imperial	Mid-infrared driven laser wakefield experiments.
9:00	Mike Downer	Texas	Plasma wakefield generation by mid-IR pulses.
9:30	Jonathan Wood	Imperial	Scaling laser wakefield accelerators to the mid-infrared.
10:00	Coffee break		
Session 5 Chair: Mike Downer			
10:30	Zenghu Chang	UCF	Generation of below and above threshold high harmonics with MIR lasers.
11:00	Rui Silva	MBI	High harmonic imaging of ultrafast many-body dynamics in strongly correlated systems (for Ivanov).
11:30	Pavel Polynkin	Arizona	Effects of the Carrier-Envelope Phase and self-focusing dynamics in filamentation of femtosecond MIR laser pulses in air.
12:00	Nick Stuart	Imperial	The Chimera mid-IR OPCPA laser system.
12:30	Lunch and posters		