

# 2018 US/UK Mid-IR MURI Review (FY15 MURI Topic 13)

Dr. Riq Parra | May 3-4, 2018 | Arlington, VA

Holiday Inn Arlington at Ballston  
4610 Fairfax Drive | Arlington/Clarendon Rooms  
Arlington, VA 22203

## Agenda Day 1 | Thursday, May 3, 2018

Time	Topic	Speaker
12:30	Registration	
Session 1 Zenghu Chang		
1:00	Welcoming remarks, Questions	Riq Parra AFOSR
1:10	MURI Overview	Louis DiMauro OSU
1:40	Ab-initio Calculations of the Linear and Nonlinear Susceptibilities of N2, O2, and Air in Mid-infrared Laser Pulses	Ken Schafer LSU
2:10	CEP Effects in Mid-infrared Laser Filamentation in Air	Pavel Polykin UA
2:40	Wavelength Scaling of Seeded High Energy Photoelectrons	Jens Baekhoj LSU
3:00	BREAK	
Session 2 Roland Smith		
3:30	New Generation MIR Lasers for Pushing the Frontiers of Attosecond Physics	Zenghu Chang UCF
4:00	MIR Femtosecond Damage, Ablation and Extreme Subwavelength Surface Structure Generation with Silicon	Enam Chowdhury OSU
4:20	Fullerenes in Strong Mid-IR fields	Cosmin Blaga OSU
4:40	Cluster Ionization in the Mid-IR	Zhou Wang OSU
5:00	MEETING ADJOURN	

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## Agenda Day 2 | Friday, May 4, 2018

Time	Topic	Speaker
8:00	Registration	
Session 3 Lou DiMauro		
8:20	Welcoming remarks, Questions	Robert Deas/Bill Healy DSTL
8:30	Overview + MIR Interactions Experiments	Jon Marangos Imperial
9:10	Progress Towards a MIR Femtosecond Field Synthesizer	John Tisch Imperial
9:40	Theory of Strong Field MIR Molecule Interactions	Vitaly Averbukh Imperial
10:00	SXR Generation and Few-cycle OPA Power Upgrade	Esben Larsen Imperial
10:20	BREAK	
Session 4 Gennady Shvets		
10:40	Theory of Flamentation and HHG in Condensed Phase	Misha Ivanov Imperial/MBI
11:10	Electron Acceleration at ALLS and CHIMERA	Stuart Mangles Imperial
11:40	High Average Power TW Mid-infrared FOPA at ALLS	Francois Legare INRS
12:00	LUNCH	
Session 5 Jon Marangos		
1:30	Mid-IR Laser Wakefield Accelerators — U. Texas Program	Mike Downer UT Austin
2:00	Particle Acceleration and Radiation Generation using the Combination of Near- and Mid-IR Pulses	Gennady Shvets Cornell
2:30	Proton Acceleration at ATF	Oliver Ettlinger Imperial

<b>3:00</b>	CHIMERA	Roland Smith Imperial
<b>3:30</b>	MIR diagnostics	Nick Stuart Imperial
<b>4:00</b>	Closing Remarks Parra/Deas/Healy	AFOSR/DSTL
<b>4:30</b>	<b>MEETING ADJOURN</b>	