

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	TBA	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	TBA	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 filamentation 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

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