



Basic Research Innovation and Collaboration Center (BRICC)
4075 Wilson Blvd., Suite 350 | Liberty Room
Arlington, VA 22203

Agenda | October 23, 2017

Time	Title	Speaker
0830-0900	Registration	
0900-0910	Welcome Remarks	Stacie Williams (AFOSR) Mikhail Vorontsov (UD)
0910-0920	Deep turbulence MURI (AFOSR Grant No: FA9550-12-1-0449): Executive summary	Mikhail Vorontsov (UD)
0920-1000	Atmospheric Laser Beam and Image Propagation in deep Turbulence Conditions: UD Effort Overview	Mikhail Vorontsov (UD)
1000-1020	Active Imaging and Remote Optical Power Beaming using Fiber Array Laser Transceivers with Adaptive Beam Shaping	Thomas Weyrauch (UD)
1020-1035	Analysis of Laser Beam Propagation over Long-range Atmospheric Propagation paths with Accounting for Turbulence and Refractivity Effects: Computational Fluid Dynamics Approach	Victor Kulikov (UD) and Sukanta Basu (NCSU/Delft University of Technology)
1035-1045	BREAK	
1045-1100	Analysis of Laser Beam Propagation over Long-range Atmospheric Propagation Paths with Accounting for Turbulence and Refractivity Effects: WORTOX Approach	Mikhail Vorontsov (UD) and Victor Kulikov (UD)
1100-1115	Complex Field Retrieval and Adaptive Optics Atmospheric Effects Mitigation with Multi-aperture Zernike Sensor	Behzad Bordbar (UD)
1115-1145	Multiscale Modeling of Optical Turbulence and Refraction: Accomplishments and Remaining Challenges	Sukanta Basu (NCSU/Delft University of Technology) – presenting via teleconference
1145-1300	LUNCH	
1300-1330	Designing Radially Accelerating Random Beams for Propagation in Deep Atmospheric Turbulence	Olga Korotkova (UM)
1330-1400	Incorporation of Surface-measured Turbulence and Aerosol Effects into Weather Cube Volumes (and AFIT Overview)	Steve Fiorino (AFIT)
1400-1415	Estimation of Turbulence Parameters from Time-lapse Imagery	Santasri Bose-Pillai (AFIT)

1415-1430	Analysis of Turbulence Anisotropy with a Hartmann Sensor	Jack McCrae (AFIT)
1430-1445	Speckle Mitigation for Wavefront Sensing in Moderate to Strong Turbulence	Noah Van Zandt (AFIT)
1445-1500	BREAK	
1500-1530	Simulation Results for Angle-of-arrival Variance of Waves and Rays in Strong Atmospheric Scattering	Dave Voelz (NMSU)
1530-1600	Beaconless Imaging and Beam Control for Extended Targets over Long Paths	Mike Roggemann (MTU)
1600-1610	BREAK	
1610-1625	Government Discussions	
1625-1635	Closing Comments	Stacie Williams (AFOSR)
	MEETING ADJOURN	