



AFOSR Sensing, Optics and Imaging Collaborative Exchange Workshop 2016



Dr. Stacie Williams | September 17, 2016 | Wailea, Hawaii

Wailea Marriot,
3700 Wailea Alanui Drive | Mauna Loa Ballroom
Wailea, Hawaii 96753

Agenda | September 17, 2016

Time	Title	Speaker
7:30-7:45	Registration	
7:50-8:00	Welcome/Logistics	Dr. Rao Gudimetla (AFRL/RDSM) Dr. Stacie Williams (AFOSR/RTB)
8:00-8:25	Air Force Space Command Long-Term Science and Technology Challenges	Dr. Merri Sanchez (AFSPC)
8:25-8:50	Air Force SSA Mission by National Air and Space Intelligence Center	Mr. Jeff Gossel (NASIC)
8:50-9:15	Space Situational Awareness: Current Relevance and Challenges	Dr. Tom Cooley (AFRL/RD)
9:15-9:40	Air Force Research Laboratory New Mexico Innovation Center	Dr. Robert Peterkin (AFRL/RD)
9:40-10:05	Air Force Office of Scientific Research and SSA	Dr. Charles Matson (AFRL/ST)
10:05-10:20	BREAK	
10:20-10:45	High Resolution Daylight Imaging	Dr. Michael Hart (University of Arizona)
10:45-11:10	Shadow Imaging	Dr. Dennis Douglas (Integrity Application Incorporated)
11:10-11:35	Imaging Through Strong Atmospheric Turbulence	Dr. Stuart Jefferies (Georgia State Univ.)
11:35-12:00	Compressive Line Sensing Imaging System in Degraded Visual Environments	Dr. Bing Ouyang (Florida Atlantic University)
12:00-12:25	Computational Considerations for Compact Multi-frame Blind Deconvolution	Dr. Jim Nagy (Emory University)
12:25-2:00	LUNCH	
2:00-2:25	Optimal Sensor Tasking for Enhanced Space Situational Awareness	Dr. Singla Puneet (University of Buffalo)
2:25-2:50	CSSAR Update of Research Projects at USAFA	Dr. Francis Chun (United States Air Force Academy)
2:50-3:15	Innovations in Space-Object Shape Recovery and 3-D Space Debris Localization	Dr. Prasad Sudhakar (University of New Mexico)

3:15-3:30	BREAK	
3:30-3:55	Initial Orbit Determination Using the Doppler Shift of Fraunhofer Lines	Dr. Michael Kudenov (North Carolina State University)
3:55-4:20	Dynamical Issues in Space Situational Awareness	Dr. Terry Alfriend (Texas A&M University)
4:20-4:45	Initial Results and Ideas in Disruptive Space Object Behavioral Sciences	Dr. Moriba Jah (University of Arizona)
4:45-5:05	Doppler Radar for Tracking, Recovery and Characterization of Space Debris	Dr. Vishnu Reddy (University of Arizona)
5:05-5:30	Calculation of Zernike Coefficients in Deep Anisotropic Non-Kolmogorov Atmospheric Turbulence	Dr. Rao Gudimetla (AFRL/RDSM)
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