

MURI Review Atmospheric Disturbances at High Altitude

Dr. Ivett Leyva | December 7, 2018 | Arlington, VA

2018 MURI Review Atmospheric Disturbances at High Altitude
4100 North Fairfax Drive | Suite 450 – Research A Room
Arlington, VA 22203

December 7, 2018

Time	Theme	Topic	Speaker
8:00-8:30	Registration		
8:30-8:45	Welcome	Welcome and Opening Remarks	Ivett Leyva, AFOSR
8:45-9:15	Scientific Motivation	Program Overview: Hypersonic Flight in the Turbulent Stratosphere (HYFLITS)	Brian Argrow, University of Colorado, Boulder
9:15-9:45	Modelling	Modeling Stratospheric Turbulence Sources, Evolutions, and Statistics, and Evaluation of Measurement Methods	Dave Fritts, Embry-Riddle Aeronautical University
9:45-10:00	BREAK		
10:00-10:30	Modelling	Modeling Optical Propagation through the Atmosphere: First Principles, Assumptions, Approximations, and Algorithms	Andreas Muschinski, University of Colorado, Boulder
10:30-11:00	Modelling	Atmospheric Disturbances and Boundary Layer Receptivity	Graham Candler University of Minnesota
11:00-11:30	Modelling	Discussion	All
11:30-1:00	LUNCH		
1:00-1:30	Measurements	High-Altitude Balloon Measurements of Atmospheric Particulates	James Flaten & Graham Candler University of Minnesota
1:30-2:00	Measurements	High-Altitude Calibration Tunnel (HiCAT) and Stratospheric Kinetic Turbulence Measurements	Dale Lawrence & Brian Argrow, University of Colorado, Boulder
2:00-2:30	Measurements	Balloon Bus Design and Telemetry	Aroh Barjatya Embry-Riddle Aeronautical University

2:30-3:15	Measurements	Optical Propagation through the Atmosphere: Observational Techniques and Measurement	Andreas Muschinski & Greg Rieker University of Colorado, Boulder
3:15-3:30	BREAK		
3:30-4:45		Discussion	All
4:45-5:00		Wrap-up	Brian Argrow & Ivett Leyva University of Colorado, Boulder/AFOSR
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