



The Westin Arlington Gateway  
 801 N Glebe Road | F. Scott Fitzgerald A/B Rooms  
 Arlington, VA 22203

| Time        |                           | Topic  | Speaker                         |
|-------------|---------------------------|--|---------------------------------|
| 7:30        |                           | <b>Registration</b>  |                                 |
| 8:00-8:30   |                           | Project Overview   | Ivett Leyva/ Brian Argrow       |
| 8:30-9:00   | Scientific Motivation     | Hypersonic Boundary Layer Transition: From Disturbances to Turbulent Motion  | Graham Candler                  |
| 9:00-9:30   |                           | Atmospheric Dynamics Accounting for Stratospheric Turbulence   | Dave Fritts                     |
| 9:30-10:00  |                           | Optical Propagation through the Atmosphere: Concepts, Applications and Research Needs                              | Andreas Muschinski              |
| 10:00-10:15 |                           | <b>BREAK</b>   |                                 |
| 10:15-10:45 | Modelling Capabilities    | Modeling Sources, Evolutions, and Statistics of Stratospheric Turbulence   | Dave Fritts                     |
| 10:45-11:15 |                           | Modeling Optical Propagation through the Atmosphere: First Principles, Assumptions, Approximations, and Algorithms | Andreas Muschinski              |
| 11:15-11:45 |                           | Atmospheric Disturbances and Boundary Layer Receptivity  | Graham Candler                  |
| 11:45-1:00  |                           | <b>LUNCH</b>   |                                 |
| 1:00-1:30   | Measurements Capabilities | High-Altitude Balloon Measurements of Atmospheric Particulates   | Graham Candler                  |
| 1:30-2:00   |                           | Stratospheric Kinetic Turbulence Measurement   | Dale Lawrence                   |
| 2:00-2:30   |                           | Balloon Bus Design and Telemetry   | Aroh Barjatya                   |
| 2:30-3:00   |                           | Optical Propagation through the Atmosphere: Observational Techniques and Measurement Needs                         | Andreas Muschinski /Greg Rieker |
| 3:00-3:15   |                           | <b>BREAK</b>   |                                 |
| 3:15-4:30   |                           | Discussion   |                                 |
| 4:30-5:00   |                           | Wrap-up  |                                 |