

**Saturday, February 20, 2010**  
**ATMOSPHERIC, IONOSPHERIC AND AURORAL SCIENCE SESSION II**  
**8:30 a.m. Century Room**

*The next generation of suborbital vehicles will provide an unprecedented platform for observations of the mesosphere, lower thermosphere and ionosphere.*

**Chairs: Michael Summers**  
**Christoph Englert**

- 8:30 a.m. Heelis R. A. \*  
[Experiments in the Lower Ionosphere Enabled by the Next Generation Sub-Orbital Vehicles](#) [#4091]
- 9:00 a.m. Immel T. J. \*  
[Performing Atmospheric and Ionospheric Science Experiments at the Edge of Space](#) [#4063]
- 9:30 a.m. Englert C. R. \* Harlander J. M. Siskind D. E. Babcock D. D.  
[Investigating Upper Atmospheric Dynamics from Next Generation Suborbital Platforms: Novel Observation Opportunities and Accelerated Development of Innovative Instrumentation](#) [#4033]
- 9:45 a.m. Knappmiller S. \* Gumbel J. Horanyi M. Robertson S. Sternovsky Z.  
[Using DSMC Modeling of Rocket Aerodynamics as a Measurement Aid in the Mesosphere](#) [#4020]
- 10:00 a.m. Coffee Break