

**CESM Whole Atmosphere Working Group Meeting**  
**1 February 2012**  
**Mesa Lab, Main Seminar Room**  
**National Center for Atmospheric Research – Boulder, Colorado**

- 8:15 [Hanli Liu](#) – Welcome and status of WACCM
- 8:30 [Stan Solomon](#) – Sun to ice: Impacts on Earth of extreme solar events
- 8:45 [Art Richmond](#) – Electrical connections and consequences within the Earth system
- 9:00 [Nick Pedatella](#) – The atmospheric lunar tide simulated in the WACCM
- 9:15 [Rolando Garcia](#) – SSW and blocking
- 9:30 [Cora Randall](#) – WACCM studies of polar middle atmosphere
- 9:45 [Katelynn Greer](#) – Observations and modeling climatology of polar wintertime middle atmosphere disturbances
- 10:30 [Doug Kinnison](#) – Stratospheric heterogeneous processes using SD WACCM4
- 10:45 [Aimee Merkel](#) – Impact of solar spectral variability on middle atmospheric constituents
- 11:15 [Mike Mills](#) – Nuclear winter simulations with CESM-WACCM/CARMA
- 11:30 [Jason English](#) – Stratospheric sulfur geoengineering using WACCM/CARMA: Particle size and tropospheric burdens

***Joint Session: AWMG / WAWG***

- 1:00 [Co-chairs](#) – Welcome and logistics
- 1:10 [Dan Marsh](#) – Comparing WACCM/CCSM4 20<sup>th</sup> century simulations
- 1:30 [Hanli Liu](#) – Evaluation of an internally generated Quasi Biennial Oscillation in WACCM
- 1:50 [Chuck Bardeen](#) – Cirrus simulations using sectional microphysics (CAM/CARMA)
- 2:05 [Bo Tan](#) – New parameterization for correcting the "Cold Pole" problem
- 2:20 [Chihoko Yamashita](#) – Gravity waves and high-resolution modeling (using T799 ECMWF)
- 2:35 [Simone Tilmes](#) – The impact of climate engineering on temperatures and precipitation using an idealized solar dimming experiment
- 3:10 [Charles Jackson](#) – Control climate impacts and the response to greenhouse gas forcings: Small differences, big impacts
- 3:30 [Rich Loft](#) – NCAR computing outlook: Yellowstone and beyond
- 3:50 [Mariana Vertenstein](#) – New component grid capability in CESM
- 4:10 [Peter Lauritzen](#) – Transport schemes and orography datasets in CAM