

**CESM Whole Atmosphere Working Group Meeting
20 – 21 February 2019**

Mesa Lab – National Center for Atmospheric Research – Boulder, Colorado

WEDNESDAY, 20 February:

**Joint Session of Whole Atmosphere and Chemistry-Climate Working Groups
Mesa Lab – **Damon Room****

Webcast Instructions:

AUDIO: Dial this access number: 1-866-740-1260 – Enter access code **4971358**

VIDEO: Go to www.readytalk.com; under “join a meeting” enter access code **4971358**

8:30	<i>Coffee</i>	
9:00	Status of chemistry and aerosols in WACCM and CAM-chem	Louisa Emmons
9:20	Reaching exposure-relevant scales: The implementation of full chemistry into regionally refined CAM-chem	Forrest Lacey
9:40	Examining the impact of anthropogenic aerosols emitted by China on global climate using CESM2 coupled with MOSAIC aerosol module	Zheng Lu
10:00	Update on the Brewer-Dobson Circulation variability driven by the QBO, including results from CESM-2	Jessica Neu
10:20	<i>Break</i>	
10:40	Stratospheric volcanic aerosol simulations using SD-WACCM/CARMA model	Yunqian Zhu
11:00	Stratospheric aerosols and volcanic eruptions in WACCM6	Mike Mills
11:20	New investigation into human and environmental impacts from nuclear war using WACCM	Chuck Bardeen
11:40	Discussion	
12:00	<i>Lunch (on your own)</i>	

Joint Session of Atmosphere Model, Chemistry-Climate, and Whole Atmosphere Working Groups – Mesa Lab, **Main Seminar Room**

Webcast: www.fin.ucar.edu/it/mms/ml-live.htm

1:00	Introduction to WACCM6	Andrew Gettelman
1:20	Climate impacts of secondary organic aerosols (SOA)	Simone Tilmes
1:40	QBO in 110L WACCM: the importance of vertical resolution	Rolando Garcia
2:00	An improved aerosol wet processes parameterization coupled with an explicit convective cloud scheme in CAM6	Yunpeng Shan
2:20	Efficient in-cloud removal of aerosols by deep convection	Pengfei Yu
2:40	Spectrum: an underutilized dimension in model validations and diagnostics	Xianglei Huang
3:00	<i>Break</i>	
3:30	Evaluating and improving parameterization of ice fall velocity in convective clouds: Using the NCAR CAM-SCM with TWP-ICE data	Lin Lin
3:50	Implementing marine organic aerosol and ice nucleation in CESM2: Description, evaluation, and impacts on clouds	Xi Zhao
4:10	Competing roles of the fast and slow response in the total coupled West African precipitation response to anthropogenic aerosol forcing	Paul Kushner / Haruki Hirasawa
4:30	Discussion: Promising parameterizations? Critical biases to get to the bottom of?	
5:30	<i>Reception (Damon Room)</i>	

THURSDAY, 21 February – Whole Atmosphere Working Group Session – **Damon Room**

Webcast Instructions:

AUDIO: Dial this access number: 1-866-740-1260 – Enter access code **8531794**

VIDEO: Go to www.readytalk.com; under "join a meeting" enter access code **8531794**

9:00	Thermospheric and ionospheric composition and gravity wave	Hanli Liu
9:20	The QBO in model-simulated and observed equatorial temperature of the lower stratosphere	Curt Covey
9:40	Data assimilation in WACCM-X	Nich Pedatella
10:00	Evaluation of the mesospheric polar vortices in SD-WACCM version 6	Lynn Harvey
10:20	<i>Break</i>	
10:50	The semi-annual oscillation in WACCM and other models participating in QBOi	Anne Smith
11:10	Quantifying Energetic Particle Precipitation (EPP) influences on the budget of NO _y	Doug Kinnison
11:30	Discussion	
12:00	<i>Adjourn</i>	