

CESM Chemistry Climate Working Group Meeting
10 – 11 February 2014
National Center for Atmospheric Research
Mesa Lab – Boulder, Colorado

MONDAY, 10 February – 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**

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| 8:30 | <i>Coffee</i> | |
| 9:00 | Welcome and Goals of the Meeting | J.-F. Lamarque |
| 9:15 | Recent developments | S. Tilmes |
| 9:45 | Updates on CLM dry deposition | M. val Martin |
| 10:00 | Expanded chemical tagging | T. Butler |
| 10:15 | Extension of MOZART chemical mechanism | L. Emmons |
| 10:30 | <i>Break</i> | |
| 11:00 | Data assimilation of chemical species in CAM-chem | J. Barré |
| 11:15 | Surprising particle growth after large volcanic eruptions | J. English |
| 11:30 | Volcanic aerosols with MAM | M. Mills |
| 11:45 | Dependence of dust radiative forcing on mineral speciation | R. Scanza |
| 12:00 | Impact of Methane and DMS on climate | P. Cameron-Smith |
| 12:15 | <i>Lunch (on your own)</i> | |
| 1:15 | CESM-CAM5 large ensemble | C. Deser |
| 1:30 | Description of the CCMI branch | J.-F. Lamarque |
| 1:45 | CCMI simulations | S. Tilmes |
| 2:00 | CONTRAST chemical forecasts | D. Kinnison |
| 2:15 | FAST-J implementation update | P. Camerson-Smith/M. Prather |
| 2:30 | MAM development | P.-L. Ma |
| 2:45 | Climate change impacts on air quality in the U. S. | F. Garcia |
| 3:00 | <i>Break</i> | |
| 3:30 | Discussion (Development priorities and CESM2) | J.-F. Lamarque |
| 5:00 | <i>Reception (AMWG and Chemistry Climate WG) – Damon Room</i> | |

TUESDAY, 11 February – Main Seminar Room

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

8:30 *Coffee*

Joint Session: AMWG and Chemistry Climate Working Group

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| 9:00 | Representation of secondary organic aerosols in the CESM model as a part of the SciDac ACES4BGC project. | Manish Shrivastava |
| 9:15 | Extension of the representation of SOAs in CAM | Alma Hodzic |
| 9:30 | Radiative forcing and climate response in coupled CESM/MARC simulations | Alex Avramov |
| 9:45 | CAM Dynamics Update | Peter Lauritzen |
| 10:00 | Evaluating the resolution dependence of aerosol-cloud interactions using A-Train satellite observations | Po-Lun Ma |
| 10:15 | Global modeling of secondary organic aerosol with an explicit scheme | Guangxing Lin |
| 10:30 | <i>Break</i> | |
| 11:00 | A New and Improved Coherent Prescribed Parameterization of the Stratospheric Aerosol for All Flavors of CESM | Ryan Neely |
| 11:15 | Dynamic marine aerosol emissions for Earth System Models | Scott Elliott |
| 11:30 | <i>Discussion</i> | |
| 12:00 | <i>Lunch (on your own)</i> | |

Return to Damon Room

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| 1:00 | Update on model diagnostics | S. Tilmes / P.-L. Ma |
| 1:30 | Discussion (Model diagnostics / model evaluation and integration of new features) | J.-F. Lamarque |
| 3:00 | <i>Break</i> | |
| 3:30 | Leo Donner – CGD Seminar – Cumulus convection, climate sensitivity, and heightened imperatives for physically robust cumulus parameterizations in climate models | |
| 4:30 | Final points and adjourn | J.-F. Lamarque |