

# CESM PaleoClimate Working Group Meeting

## 15 – 17 February 2012

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

#### WEDNESDAY, 15 February – Joint Sessions – Main Seminar Room

##### Joint Session: PCWG/LIWG/PaleoClimateWG Contributed Science Talks

- 1:00 Co-chairs welcome and logistics
- 1:10 [Clara Deser](#) – The role of ocean coupling in the atmospheric response to Arctic sea ice loss
- 1:30 [Julienne Stroeve](#) – Analysis of sea ice CMIP5 simulations
- 1:50 [Ed Blanchard](#) – Atmosphere - sea ice interactions in the Arctic: Non stationarity and implications for predictability
- 2:10 Esther Brady – Climate sensitivity from paleoclimate simulations
- 2:30 [Feng He](#) – The role of North Atlantic Ocean dynamics in simulating glacial inception: a study with CCSM4
- 3:20 [Markus Jochum](#) – True to Milankovitch: Glacial inception in CCSM
- 4:00 [Stephen Price](#) – Community Ice Sheet Model: development and applications
- 4:20 [Tad Pfeffer](#) – Model projection strategies for glaciers and ice caps and complete assessment of sea level rise

#### THURSDAY, 16 February – Joint Sessions – Main Seminar Room

##### Joint Session: CESM Science, Computing, and Data Updates

- 9:00 [Marika Holland](#) – CESM update
- 9:20 [Mariana Vertenstein](#) – CESM software engineering update
- 9:40 [Dave Hart](#) – Yellowstone overview
- 10:00 [Kevin Raeder/Jeff Anderson](#) – Data Assimilation Research Testbed (DART) capabilities and opportunities
- 10:20 [Dave Schneider](#) – Climate Data Guide for climate analyses and model evaluation (<http://climatedataguide.ucar.edu/>)

##### Joint Session: Working Group Updates

- 11:10 [Bette Otto-Bliesner](#) – Paleoclimate working group update
- 11:20 [Jen Kay](#) – Polar climate working group update
- 11:40 [William Lipscomb / Jesse Johnson](#) – Land ice working group update
- 12:00 [Dave Lawrence](#) – Land working group update, Climate impacts of Arctic shrubs

# *Paleoclimate WG Sessions*

## **THURSDAY, 16 February – Chapman Room**

### *Climate Dynamics and Sensitivity*

- 1:30 Co-chairs – Welcome and logistics
- 1:35 [Bette Otto-Bliesner](#) – Overview of PMIP3 and CMIP5 projects
- 1:55 [Matthew Huber](#) – Informal Eocene Paleoclimate Model Intercomparison Project
- 2:15 [Fortunat Joos](#) – Results of climate simulations for the past millennium with CCSM3
- 2:35 [Laura Landrum](#) – CCSM4-data comparisons for the last millennium
- 3:20 [Jiaxu Zhang](#) – Evaluating climate sensitivity on different time scales and its relation with base climates
- 3:40 [Jerry Potter](#) – An integrated speleothem proxy and climate modeling study of the last deglacial climate in the Pacific Northwest
- 4:00 [Nan Rosenbloom](#) – Mid-Pliocene warm period and the Bering Strait
- 4:20 [Aaron Goldner](#) – Paleoclimate modeling of Eocene and Miocene with different dynamical cores and resolutions using CESM1.0

## **FRIDAY, 17 February – Chapman Room**

### *Isotopes and Geotracers*

- 8:30 [Esther Brady](#) – Introduction to the CESM isotope project
- 8:50 [Jiaxu Zhang](#) – Ideal age and water isotopes in POP2
- 9:10 [Jesse Nusbaumer](#) – Water isotopes and deep convection in CAM5
- 9:25 [Chuck Bardeen](#) – Water isotopes and stratus clouds in CAM5
- 9:55 [Fortunat Joos](#) – Carbon isotopes and paleo-applications in low-resolution models

### *Computing, Linkages, and Plans*

- 11:00 [Rich Loft](#) – Getting high integration rates from slow compute threads
- 11:35 [Nan Rosenbloom](#) – The “Paleoclimate Users Guide”
- 11:50 [Keith Lindsay](#) – Biogeochemistry Working Group developments
- 12:10 [Co-chairs – Paleoclimate Working Group: Simulations and CSL proposal](#)