

Early Career Scientists Assembly - Junior Faculty Forum on
"Future Scientific Directions" July 14-16, 2009

Theme: Connecting Weather and Climate in Observations, Models
and Theory

Chairs: Adam Monahan (U.Vic) and Judith Berner (NCAR)

PRELIMINARY AGENDA

Tuesday, July 14th

0845-0900 Shuttle pickup at Golden Buff Hotel to NCAR Mesa Lab

0900-0930 Registration - Mesa Lab Lobby

**All sessions are in the Inner Damon Room, all break refreshments are in
the Outer Damon Room**

- 0930-0940 Introductory remarks and orientation by session chairs
- 0940-1000 Welcoming Remarks from the NCAR director, Prof. Eric Barron
- 1000-1100 Invited Talk I: Prashant Sardeshmukh
- 1100-1130 Break – refreshments
- 1130-1210 Introductions of participants (2 min each).
- 1210-1230 Collections of questions/issues for panel;
Sign-up for Breakout sessions; Sign-up for Friday lunch
- 1230-1400 Lunch ML cafeteria (provided; in the partitioned East-end)
- 1400-1530 Panel discussion
- 1530-1600 Break – refreshments
- 1600-1700 Walk & Talk (Meet at backdoor close to Damon room)
- 1700-1930 Dinner and drinks provided on the Tree Plaza, Mesa Lab
- 1930 Shuttle pickup at NCAR Mesa Lab to Golden Buff Hotel

Wednesday, July 15th

- 0830 Shuttle pickup at Golden Buff Hotel to NCAR Mesa Lab
- 0900-1000 Invited Talk II: Warren Washington
- 1000-1100 Break – refreshments and Poster session
- 1100-1200 Invited Talk III: Geoffrey Vallis
- 1200-1215 Discussion of issues raised in invited talks
- 1215-1230 Group Photograph
- 1230-1330 Lunch ML cafeteria (provided; in the partitioned East-end)
- 1330-1500 Breakout Sessions
- I Identification of specific physical weather phenomena which couple strongly to climate and for which a subgrid-model is necessary
 - II Strategies for balancing the competing needs of resolution, domain size, duration of simulation, ensemble size
- 1500-1530 Break – refreshments and Poster session
- 1530-1700 Breakout Sessions
- III Generalized strategies for dealing with subgrid-scale variability in a macroscopic model and nonlinear interactions of subgrid- and resolved scales
 - IV Alternatives to resolving weather in climate ensembles scales and novel strategies to use high-resolution or observational data to develop parameterizations
- 1700 No shuttle pickup. Use UCAR shuttle and public transport or carpooling to hotel or pub (see webpage for more info)
- 17:00-1900 Beer and dinner at own cost at Southern Sun, Table Mesa Shopping Center (optional)

Thursday, July 16th

- 0815-0845 Shuttle pickup at Golden Buff to NCAR Mesa Lab
- 0845-1015 Plenary Session: Summaries of breakout sessions.
Discussion about BAMS white paper
- 1015-1030 Break – refreshments
- 1030-1100 Brainstorm on funding proposal and
organizing a session at a conference
- 1100-1200 Breakout groups summarize the main ideas discussed
- including the plenary discussion - for BAMS article
- 1200 End of Formal Workshop
- 1200 Optional Shuttle pickup at NCAR Mesa Lab and to Golden Buff
Hotel
- 1230-1400 Optional lunch ML cafeteria (on your own)
- 1400-1630 Writing session for chairs and interested participants (Damon)
- 1630 End
- 1630 Shuttle pickup at NCAR Mesa Lab and to Golden Buff Hotel

Notes:

Participants are encouraged to bring and present a poster. Posters will be up throughout the forum and can be discussed in during breaks and lunch times in addition to the designated poster sessions.

Before the forum:

Participants are asked to prepare a paragraph (or more) of the questions they would like to discuss and the methods and tools to answer them. Please send these paragraphs one week before the workshop (by Monday, July 6th. 2009) to the organizers. The purpose is to get people thinking before the workshop.

Goals:

- 1) A BAMS article meeting report detailing the state of the science and the needs and requirements for progress.
- 2) A funding proposal. The nature of the proposal will be determined as the forum progresses, based on interactions amongst participants and the general level of enthusiasm for the idea.