

AGENDA

February 17-19, 2009

National Weather Center
120 David L. Boren Blvd
Norman, OK
Room 3910

MONDAY, FEBRUARY 16

8:00 – 9:00pm Committee Executive Session at Residence Inn (S. Nelson organizer)

DAY 1: TUESDAY MORNING, FEB 17

7:00 - 7:30 Breakfast at the Marriott Residence Inn hotel with OAR AA, DAA, and Reviewers
[Get breakfast at the buffet, and then proceed to the second floor of the hotel to the Community Room]

7:45 Meet in lobby for transportation to NSSL

8:00 Welcome by OAR AA (Spinrad)

8:15 Welcome & Introduction of Reviewers by OAR DAA for L&CIs (MacDonald)

8:30 Lab Director's Welcome & Overview (Kimpel)

9:00 WEATHER RADAR RESEARCH (session 1 of 3)

- Introduction & Overview (Forsyth) (30 min)
- Innovative Techniques to Improve Weather Observations (Torres) (20 Min)
- Enabling the Development and Implementation of Science through Open Systems and Development tools (Jain) (20 min)
- Multi-sensor Data Mining (Lakshmanan) (20 min)

10:30 Break

10:45 WEATHER RADAR RESEARCH (session 2 of 3)

- Dual Polarization and Mobile Platforms for Weather Observations (Zrnic) (20 min)
- Meteorological Applications of Dual Polarimetric Radar (Ryzhkov) (20 min)
- Meteorological Observations in Support of Dual Polarization Research (Schuur) (20 min)
- Using Future Weather Surveillance Radars to Improve Understanding of the Atmosphere (Hondl) (20 min)

12:00 Lunch (Reviewers with NSSL Management and OAR HQ, room 2410)

DAY 1: TUESDAY AFTERNOON, FEB 17

- 1:00 Radar Demonstrations/Electronic Posters (Development Lab) (10 min each)
- Toward longer warning lead times: Demonstration of an innovative signal processing solution (Torres)
 - Demonstration of Phased Array data and comparisons to the WSR-88D (Heinselman)
 - Animation and 3D Visualization of NWRT/PAR Tornado (29 May 2004) (Hondl)
 - Live demonstration of Phased Array operations and user interface (Priegnitz)
 - Interactive demonstration of vertical profiles of profiler data and KOUN dual-polarization data (Schuur)
 - Radar engineering and development (Zahrai)
- 2:15 WEATHER RADAR RESEARCH (session 3 of 3)
- Advances in Phased Array Engineering: Paving the Way for MPAR (Curtis) (20 min)
 - Applications of PAR Technology to Improve Warnings and Predictability of Hazardous Weather (Heinselman) (20 min)
 - Summary of Weather Radar Research (Forsyth) (15 min)
- 3:10 Break
- 3:30 HAZARDOUS WEATHER FORECASTS & WARNINGS (session 1 of 3)
- Warning Introduction & Overview (Burgess)
 - Advanced Storm Visualization Techniques (Stumpf)
 - Nowcasting Applications (Smith)
 - Probabilistic Hazard Information (Kuhlman)
- 4:45 Reviewer closed session discussion with NSSL Director
- 5:45 Reviewer closed session
- 6:30 Adjourn & Dinner with Reviewers and all out of town guests at Legends Restaurant (East Dining Room), 1313 West Lindsey, Norman. (405) 329-8888.

DAY 2: WEDNESDAY MORNING, FEB 18

7:45 Breakfast with NSSL's NWS Collaborators (Reviewers and collaborators only at the National Weather Center in Room 2410)

8:45 Welcome and recap (Kimpel)

9:00 HAZARDOUS WEATHER FORECASTS & WARNINGS (session 2 of 3)

- Forecast Introduction and Overview (Stensrud)
- Science Infusion (Kain)
- Understanding Severe Weather Processes (Coniglio)
- Short-Range Ensembles and Ensemble Data Assimilation (Stensrud)

10:15 Break

10:30 HAZARDOUS WEATHER FORECASTS & WARNINGS (session 3 of 3)

- Electronic Posters in Hazardous Weather Testbed (40 minutes):
 - o Hail Verification and Analysis Research (Ortega)
 - o Circulation Detection and Analysis (Elmore)
 - o Thunderstorm Electrification & Lightning Simulation (Mansell)
 - o Mountain Valley Cold Pools (Reeves)

Sessions Resume in Room 3910

- Warn on Forecast and VORTEX2 (Wicker)
- Severe Weather and Climate Change (Brooks)
- Summary of Hazardous Weather Forecasts & Warnings (Stensrud)

12:15 Working Lunch (Reviewers only with NSSL scientists, no management, in room 2410)

DAY 2: WEDNESDAY AFTERNOON, FEB 18

1:30 HYDROMETEOROLOGY (session 1 of 2)

- Introduction & Overview (Jorgensen)
- Challenges in improving QPE directed toward improving flash flood warning guidance (Howard)
- Q2 Description, Results, and Plans (Zhang)

3:00 Break

- 3:15 HYDROMETEOROLOGY (session 2 of 2)
- Local Testbeds & Field Results (Gourley)
 - Project CI-FLOW (Coastal, Inland Flood Observation and Warning) (Van Cooten)
 - Hydrometeorology Summary & Discussion (Jorgensen)
- 4:15 Parallel Sessions:
- Reviewer closed session
 - Line Office Representatives Report-out to NSSL/OAR Management
- 5:30 Reviewers leave NSSL for dinner alone (semi-private room at Whispering Pines Bed & Breakfast, 7820 East Highway 9; Reservation is 6:00)

DAY 3: THURSDAY MORNING, FEB 19

Breakfast on your own (e.g., at the Marriott Residence Inn hotel)

- 8:00 Meet in hotel lobby and depart to North Base
- 8:10 MPAR Tours
- 8:50 Depart from North Base for NWC
- 9:10 Wrap-up formal sessions (Kimpel, Kelleher, Division Chiefs)
- 10:00 Reviewer closed session (begin to write)
- 11:00 Lunch (Reviewers only in room 2410)
- 12:00 Reviewers report-out to OAR & NSSL management
- 1:00 Thank reviewers and adjourn
- 1:15 Mobile research facility tour (~30 min)
- X-Band dual-polarized radar
 - SMART-R
 - Mobile labs
 - Mobile mesonets