## **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 dualpolarization 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)
    - 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