



Provisional Agenda

Annual Review of the DoD Center for Geosciences/Atmospheric
Research (CG/AR) at Colorado State University

April 17-19, 2007

Director's Conference Room
CIRA, Foothills Campus
Colorado State University
Fort Collins, CO

(with VTC with ARL Adelphi and WSMR groups)

Tuesday, April 17th

- 0830 Welcome/Announcements – *Ms. Pamela Clark, Acting Chief, Battlefield Environment Division/CISD, ARL*
Ms. Linda Duchow, Cooperative Agreement Manager, BED/CISD, ARL
- 0845 Overview for 2006-07 and Background of the DoD Center for Geosciences/
Atmospheric Research at CSU – *Prof. Thomas Vonder Haar, Recipient Program Manager*
- Clouds, Icing, and Aerosols Effects Presentations – Current Results, Questions and Discussions:
- 0900 *Mr. Adam Kankiewicz (20 min. technical detail)*
New Aircraft Data Related to Aircraft Icing and Cloud Forecasting from the
CLEX-10/C3VP Field Program (Nov 2006-Feb 2007)
- 0920 *Prof. Larry Carey, et al. (20 min. technical detail)*
Towards Improving Satellite Remote Sensing of Mixed Phase Cloud: A Study on
Microphysical and Optical Properties
- 0940 *Prof. Vince Larson, et al. (20 min. technical detail)*
COAMPS Simulations of Clouds with Icing Potential
- 1000 Questions and Discussion on the Clouds and Icing Presentations (*10 min. Q&D*)
- 1010 *Prof. Sonia Kreidenweis, et al. (20 min. technical detail; 10 min. Q&D)*
Studies of Dust Transport using NAAPS and *in situ* Aerosol Data
- 1040 *Break*

Urban and Boundary Layer Environment Presentations – Current Results, Questions and Discussions:

1100 *Prof. Roger A. Pielke, Sr., et al. (20 min. technical detail; 10 min. Q&D)*
 Battlefield Scale Modeling

Hydrometeorology Presentations – Current Results, Questions and Discussions:

1130 *Prof. Pierre Julien, et al. (20 min. technical detail; 10 min. Q&D)*
 Hydrologic and Environmental Modeling of Watersheds

1200-1300 *LUNCH (Sandwich Buffet at CIRA)*

1300 *Dr. Andrew Jones, Mr. Gary McWilliams, Dr. Mike Mungiole, et al. (30 min. technical detail; 10 min. Q&D)*
 Soil Moisture Detection using WindSat Data

Remote Sensing of Battlespace Parameters Presentations – Current Results, Questions and Discussions:

1340 *Dr. Stan Kidder and Mr. Adam Kankiewicz (20 min. technical detail; 10 min. Q&D)*
 Development of Satellite Products for the Battlespace

Dr. John Knaff and Dr. Stan Kidder (5 min. introduction)
 Improved Typhoon Intensity Predictions

1415 *Mr. John Forsythe, et al. (20 min. technical detail; 10 min. Q&D)*
 Moisture Soundings from Passive Microwave Data for Global DoD Applications

1445 *Prof. Mo Azimi, Dr. Mike Mungiole, et al. (20 min. technical detail; 10 min. Q&D)*
 Operationally Adaptive Acoustic Transmission Loss Prediction System

1515 Break

1545 *Ken Eis – **Technology Transition Discussion** (15 min.)*

1600 DoD Presentation of Related Environmental Science Priorities, Part 1 –
 (one service presentation, presenter TBD by CAM) (20 min. each)

1620 Wrap-up and Adjourn to Icebreaker

1700-1930 *Icebreaker at Hilton Fort Collins for Panel Members and
 all CG/AR researchers and students (with no-host cash bar)*

1700-1930 Poster Session – concurrent with the Icebreaker, Arizona/Oregon Room, Hilton
 Fort Collins

Wednesday, April 18th

0830 Comments/Announcements –

0840 DoD Presentation of Related Environmental Science Priorities, Part 2 –
(one service presentation, presenter TBD by CAM) (20 min. each)

0900 DoD Presentation of Related Environmental Science Priorities, Part 3 –
(one service presentation, presenter TBD by CAM) (20 min. each)

Environmental Modeling and Assimilation Presentations – Current Results, Questions and Discussions:

0920 *Dr. Andrew Jones (20 min. technical detail; 10 min. Q&D)*
Modeling and Data Assimilation for Army-Scale and Regional Applications

0950 *Dr. Manajit Sengupta (20 min. technical detail; 10 min. Q&D)*
Recent Results in 4D data assimilation: Assimilation of GOES Sounder Radiances

1020 *Break*

1050 *Dr. Milija Zupanski, et al. (20 min. technical detail; 10 min. Q&D)*
Ensemble Kalman Filtering for Army-Scale Meteorology

1120 *Prof. William Cotton, Mr. Will Cheng, and Mr. Michael Smith (summary presentation by Prof. Tom Vonder Haar; 20 min. technical detail; 10 min. Q&D)*
Parameterizing Aerosol and Sub-grid Cloud Properties in a Mesoscale Model

1150 Open Discussion

1200-1300 *LUNCH (Pasta Buffet at CIRA)*

1300 - Breakout Sessions (topics TBD)
1500

1500 *Break and revisit posters in Room 100, Atmospheric Sciences Department*

1600 Annual Program Plan Discussion; multi-year plans

No-Host Dinner ??

Thursday, April 19th

0800 Review Panel Session as needed (Clark, Duchow, co-chairs)

0900 Executive Board Session (DoD and CSU leadership)

- Initial Feedback on Review
- Modification to existing APP
- Funding options

For Questions, Assistance or Arrangements, contact
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