

NSF Facilities User Workshop Agenda

(Draft 3 – 26 June 2007)

Sunday, 23 September 2007

(JeffCo, Foothills Lab, Marshall Field Site, Fort Collins)

<i>13:00 - 17:00</i>	Open House / Facility Demonstrations Tour of GV, C130, UWY King Air at JeffCo SPOL at Marshall Site CSU CHILL at Fort Collins Site REAL, ISS, ISFF, GAUS Design and Fabrication Exhibit	
	Early Registration at JeffCo	

Monday, 24 September 2007

(NCAR, Center Green)

Session I: Informational Session (especially for students and new users)

<i>07:30</i>	<i>Start of Registration</i>	<i>Zucker, others</i>
<i>08:30 - 09:00</i>	Facility Request Process: Sorting out procedures & how does it work? (Forms, Feasibilities, OFAP, Deployment Pool)	<i>Baeuerle/Huning</i>
<i>09:00 - 10:00</i>	RICO – From dinner napkin to publication	<i>Rauber</i>
<i>10:00 - 10:15</i>	<i>Break</i>	
<i>10:15 – 11:45</i>	NSF Facilities, capabilities and plans	<i>Wakimoto, Rodi, Rutledge</i>
<i>11:45 – 12:15</i>	Airborne Instrumentation Certification: process and user responsibilities	<i>Cooper, Rodi, Schaffler</i>
<i>12:15 – 13:15</i>	<i>Lunch Break with special tables for additional questions and feedback reg. Session I</i>	

Session II: Setting the Stage

Keynotes: what are science questions that should command resources to address and how will answers to these questions make a difference?

13:15 – 13:25	Workshop Opening & Goal Setting	<i>Wakimoto</i>
13:25 – 13:35	Welcome by NSF representative & NSF expectation of workshop outcome	<i>Jacobs, others?</i>
13:35 – 13:40	Welcome by NCAR Director	<i>Killeen</i>
13:40 – 14:25	Invited Talk and Discussion	<i>Sandy McDonald</i>
14:30 – 15:10	Invited Talk and Discussion	<i>Walt Dabberdt</i>
15:15 – 15:30	<i>Break</i>	
15:30 - 16:15	Invited Talk and Discussion	<i>Bill Brune</i>
16:20 – 17:05	Challenges in Data Management Invited Talk and Discussion	<i>Raymon McCord</i>
17:10 – 17:30	Facilities Assessment Panel Activities	<i>Serafin</i>
17:30 – 20:00	GV Movie & <i>Reception</i>	

Tuesday, 25 September 2007

(NCAR, Center Green)

Session III: SCIENCE

What are the outstanding science questions and key hypotheses in your area? What facilities are needed to address them and what kind of observations would make a difference? Can we make these observations right now? If not, what is needed? Each group Identify observational needs, gaps and prioritize the needs.

Suggestion that chairs will present some of the hypotheses and key science questions as described in selected documents (e.g., NSF Strategic Plan, NCAR Strategic Plan, Dutton Study (National Academy Report), Pathway Report, Water Cycle Report, EOL Strategic Plan) during first hour before moving into brainstorming session.

08:00 *Ongoing registration*
09:00 – 12:00 *Breakout Sessions with Break at 10 am*

Session	Session Title
A	Aerosol and Cloud Chemistry
B	Mesoscale Dynamics with focus on high impact weather
C	Boundary Layer and Turbulence
D	Biological Impacts on the Atmosphere
E	Water Cycle
F	Air Pollution (urban, biomass burning)
G	Upper troposphere/lower stratosphere

12:00 – 13:00 *Lunch Break*
13:00 – 16:00 *Breakout Sessions with Break at 15:00*

Session	Session Title
H	Fundamental questions in Cloud Physics
I	Carbon and nitrogen cycle
J	Climate research model development and data assimilation
K	Polar research challenges
L	Large scale and long term characterization (Satellite validation)
M	Radiative transfer and budgets
N	Weather Prediction (usefulness for forecasting)

16:00 – 18:00 Plenary - Short presentations from each breakout group

Wednesday, 26 September 2007
 (NCAR, Center Green)

Session IV: FACILITIES PERSPECTIVE

08:00 – 08:15 Impressions of first day and expectations for Session IV (Jacobs)
 08:15 – 12:00 Breakout Sessions with Break at 9:30 am

Questions to be addressed:

- 1) *How well do existing capabilities match scientific needs identified?*
- 2) *What new capabilities are needed?*
- 3) *What role should NSF play in creating these new facilities?*

Session O	Session P	Session Q	Session R
8:15 – 11:00	8:15 – 11:00	8:15 – 11:00	8:15 – 11:00
NSF Airborne Facilities (GV, C130, KA, NRL P3)	Ground-based and Airborne Radars & Lidars (SPOL, CHILL, HCR, WCR, WCL, ELDORA, REAL)	Ground-based remote and in situ observations (Profilers, GAUS, ISS, ISFF)	New Developments (CAPRIS, MPN, A10)

Session S	Session T	Session U	Session V
11:00 – 12:30	11:00 – 12:30	11:00 – 12:30	11:00-12:30
Field Project Support - Needs and Services by the community	Focused Approach to Education	Automated Sensor Array (ASA)	Satellite Communications

12:30 - 13:30 *Lunch Break*

13:30 – 14:15 Data Management Strategies (Williams, Daniels)
 14:15 – 15:00 Data Visualization Tools (Murray)
 15:00 – 15:15 *Break*
 15:15 – 16:00 Data Analysis tools (Middleton)
 16:00 – 17:30 Short Presentations from each breakout session
 17:30 – 17:45 Closing Remarks (Jacobs)

Thursday, 27 September 2007
(NCAR, Center Green)

Writing Assignments

FACILITIES ASSESSMENT WORKSHOP

Agenda tbd