

7. WRF Research Applications Board

WRF Executive Oversight Board

Meeting 2005-2

4th ExOB Meeting

11 August 2005

- **WRAB met at NCAR on June 30 in Boulder, CO.**

<u>Members</u>	<u>Present</u>
Dr. Joe Klemp, NCAR (chair)	Yes
Dr. Shuyi Chen, U. Miami	Yes
Dr. Chris Davis, NCAR	Yes
Dr. Ruby Leung, PNL	Yes
Dr. Cliff Mass, U. Washington	Yes
Dr. David Stensrud, NSSL	No
Dr. Bob Wilhelmson, U. Illinois	Yes
Dr. Georg Grell, FSL	Yes
Dr. Kelvin Droegemeier, U. Oklahoma	Yes
Dr. Nelson Seaman, PC (Ex Officio)	Yes
Dr. Jerry Wegiel, WORB, (Ex Officio)	Yes
Dr. Bob Gall, DTC (Ex Officio)	No

Critical WRAB Objectives

- Develop **science and technology plan** to sustain WRF as U.S. leading-edge community mesoscale modeling system.
- Develop **reorganization plan** for WRF **Working Groups**.
- Develop and implement **strategic plan** to expand participation of **academic** community in WRF program.

Science and Technology Plan Development

- **Identify high-level science goals.**
- **Each WRAB member was asked to survey colleagues in his/her area of expertise (using Working groups, if active) to solicit areas deemed most critical for WRF development on the 5-10 year time scale.**
 - e.g. – Enable WRF to support 10^3 3-D arrays.**
- **Each WRAB member will draft 1-2 page summary for that area of expertise. (Target: August 15, 2005)**
- **WRAB Chair will collect and integrate contributions and distribute to WORB Chair, DTC Director and PC, to become part of the draft WRF Five-Year Plan.**

Working Group Reorganization

- **Evaluation: Some WGs have functioned quite well; others have never worked.**
- **The original purpose of the WGs (...*build WRF*...) has been mostly completed.**
- **New strategy:**
 - **Identify “passionate individuals” to lead and motivate other investigators as an effective WG**
 - **Empower WGs to develop WRF science plan in their area of expertise.**
 - **Encourage WG activity by providing an effective way for their voice to be heard by agencies, ...especially NSF!**

...feeds into new academic strategy.

Academic Community Strategy

- **Reorganize the Annual WRF User's Workshop.**
 - **Limit talks and posters to ~ 2 – 2 1/2 days.**
 - **Break into smaller sessions by areas of expertise.**
 - **Each break-out team develops short list of critical research topics (1-5 years; 5-10 years).**
 - **Each break-out team reports to the full workshop plenary session and hear feedback.**
 - **Reports collected and organized by WRAB.**
- **Academic members of WRAB deliver WRF Workshop research priorities on behalf of *all participating academic attendees* to the appropriate NSF program directors for priority funding... speaking as a community.**

Academic Community Strategy – Cont'd.

- **Post the workshop research-priority report on the WRF website for use by the academic research community in writing targeted proposals.**
- **Drs. Mass and Wegiel have volunteered to help draft a detailed plan for the next WRF annual user's workshop. (Target: January 2006)**

Final WRAB Recommendation to ExOB:

- **WRF ExOB needs to develop a modest “rapid response” fund to support critical areas of WRF research and development to address areas *not* covered by existing agency R&D programs and not funded by NSF AOs.**
 - **Goal is to fill critical funding gaps and thus prevent undue delay when seeking support through slow annual budgetary process.**
 - **Oversight of rapid-response fund can be done by ExOB. (Science review provided by WRAB and/or independent science team.)**