

WATERS Network Community Workshop

Draft Agenda:

March 24th-25th, 2008

Hilton Arlington

950 North Stafford Street

Arlington, VA 22203

Monday, March 24th, 2008

12:30 - 1:00 p.m.	Registration
1:00 - 1:15 p.m.	Welcome and introductions (Jami Montgomery, WNPO)
1:15 - 1:30 p.m.	NSF engineering perspectives on the workshop (Judy Raper, Division of Chemical, Biological and Environmental Transport, ENG Directorate, NSF)
1:30 - 1:45 p.m.	NSF earth science perspectives on the workshop (James Whitcomb, Division of Earth Sciences, GEO Directorate, NSF)
1:45 - 2:00 p.m.	NSF social science perspectives on the workshop (Edward Hackett, Division of Social and Economic Science, SBE Directorate, NSF)
2:00 - 3:00 p.m.	Proposed vision and science agenda for the WATERS Network Jerald Schnoor, University of Iowa)
3:00 - 3:30 p.m.	Break
3:30 - 4:15 p.m.	Proposed education agenda for the WATERS Network (Elizabeth Eschenbach, Humboldt State University)
4:15 - 5:00 p.m.	Proposed design strategy to meet the science agenda (David Tarboton, Utah State University)
5:00 - 6:30 p.m.	Reception at NCSA ACCESS Facility (901 N. Stuart St., Suite 800) and Keynote Address from David Lightfoot, AD for SBE Directorate, NSF

Tuesday, March 25th, 2008

7:30 - 8:00 a.m.	Coffee and continental breakfast (provided) and presentation by WN Chief Scientist (Jeff Dozier, UC-Santa Barbara)
8:00 - 9:00 a.m.	Question & answer session with Chief Scientist
9:00 - 9:10 a.m.	Charge to breakout groups (Barbara Minsker, University of Illinois)
9:10 - 10:30 a.m.	Breakout groups by discipline (see attached for details)
10:30 - 11:00 a.m.	Break
11:00 a.m. - 12:00 p.m.	Reports from breakout groups
12:00 - 12:30 p.m.	Lunch (provided)
12:30 - 1:30 p.m.	Cross-disciplinary breakout groups (see attached for details)
1:30 - 3:00 p.m.	Reports from breakout groups and further group discussion
3:00 - 4:30 p.m.	Discussion of Phase 2 and the WATERS Network Request for Information (RFI)
4:30 p.m.	Adjourn

Disciplinary Breakout Groups

- Attending NSF program officers break out with their communities by directorate (sub-group breakouts are possible if desired). Agency participants distribute themselves as desired.
 - Geoscience
 - Engineering
 - Social science
- Discussion questions:
 - How can the hypotheses and experiments given in the SEDS document be made more compelling and transformative for our field? What contributions to science are to be gained by going from a few observatories to a network? What observatory and network design features should be added to the present plan to make those contributions efficiently?
 - How can the educational initiatives proposed in the document be made more compelling, and will they significantly advance education in our field?
 - Are the cyberinfrastructure and physical facilities proposed sufficient and appropriate to address the research hypotheses and educational needs?
 - If the proposed infrastructure were built, what other transformative research or educational activities would the WATERS Network enable for our field? Give specific hypotheses and experiments that could be conducted, particularly cross-network activities that would require the use of multiple observatories or facilities.

Cross-Disciplinary Breakout Groups

- Discussion questions:
 - How can the hypotheses and experiments given in the SEDS document better catalyze and enable cross-disciplinary advances that exceed what we could do as individual disciplines? What contributions to science are to be gained by going from a few observatories to a network? What observatory and network design features should be added to the present plan to make those contributions efficiently?
 - How can the educational initiatives proposed in the document be made more compelling for fostering cross-disciplinary learning? Will they significantly advance education beyond what we could do as individual disciplines?
 - Are the cyberinfrastructure and physical facilities proposed sufficient and appropriate to address the cross-disciplinary research hypotheses and education needs?
 - If the infrastructure proposed were built, what other transformative cross-disciplinary research and cross-network activities would the WATERS Network enable?
 - Are the hypotheses and observatories sufficiently well defined in the SEDS document to have consensus instructions for moving ahead? What issues must be resolved to achieve adequate definitions? What are the unknowns where we need more information before making decisions on how to move ahead? What can we do to find answers that will resolve those unknowns?
 - What cross-boundary relationships need to be developed with other disciplines, mission agencies, international, etc. to have an effective network? What experiences and suggestions can be provided by the attendees to help in these areas?
 - What other major changes or additions could be made to strengthen the report?