



Water Dynamics Workshop

Nov. 9-11, 2008

Burlington, VT

Hosted by Vermont EPSCoR

Judith Van Houten, VT EPSCoR PD
Beverley Wemple, Co-PI on Workshop Proposal

Conception

Planning

Populating

Executing

Evaluating

Follow Up

Conception: Why a Water Dynamics Workshop??

Fundamental studies of water are important to *all NSF EPSCoR jurisdictions, even if not a current RII theme.*

Jurisdictions have *talented* faculty who are *positioned to collaborate on broad multi-disciplinary* projects of national importance.

Collaborations among faculty in NSF EPSCoR jurisdictions help them to become *competitive for NSF funding outside EPSCoR.*

Water research offers opportunities for *community based research, STEM education* enhancement, outreach to *under-represented groups, and service to the state.*

Fresh water science and engineering has been made an *initiative at the NSF* and the funding is pervasive across the Foundation.

Dynamics of Water Processes in the Environment

2009
BUDGET
REQUEST

FY 2009 Investment: \$10 million



From Arden Bement's budget
roll out slides, 2008

Planning

Job #1 - Study the NSF EPSCoR Workshop Proposal RFP!!

Workshops should address multi-jurisdictional efforts that need collaboration for optimal success.

Workshops should address regional to national themes of relevance to EPSCoR's goals and NSF's mission.

The goal of the workshop should be to develop high quality collaborations that are capable of competing for major funding from non-EPSCoR sources in NSF.

Workshops should address multi-disciplinary perspectives that are now common to major initiatives in science and engineering.

Workshops should have appropriate representation from under-represented groups.

KEEP THE NSF EPSCoR OFFICE partners in the loop!!!

Planning Collaboratively

1. **Asked all NSF EPSCoR PDs to nominate people to the workshop organizing committee**
2. Committee decided on the themes, format, co-chairs and speakers for the workshop through a series of conference calls and e-mail requests.
3. Committee contributed important aspects of the workshop: each jurisdiction was asked to fill out a template describing water research in their jurisdiction and we made this into an interactive map.
4. Balanced talks on science and broader impact (e.g. STEM education and outreach), included women and members of under-represented groups, and included talks on strategies for inclusion of under-represented groups in water research.
5. Allowed time for networking, and descriptions of current research on water dynamics in EPSCoR jurisdictions.
6. Allowed for the inclusion of many NSF Directors and Program officers to make presentations and network with the faculty.

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Grant Writing for Water Dynamics Workshop Proposal

Beverly Wemple, Co-PI

Judy Van Houten, PI

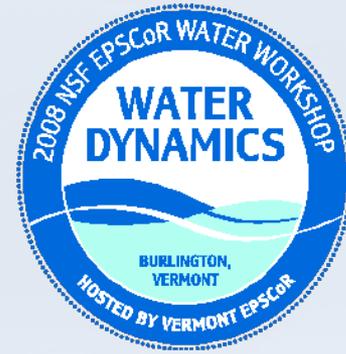
Respond to reviewers – back to the
committee!!

Range of topics,, social science
inclusion, non-profits

Inclusion of NSF Program Officers -
Marge Cavanaugh

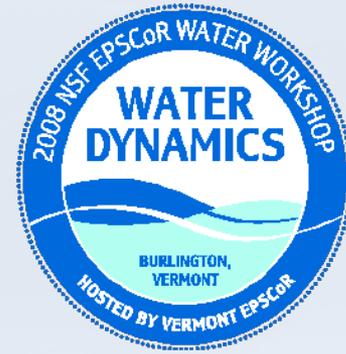
Executing and Populating:

- ✓ Logo
- ✓ Hotel and logistical planning
- ✓ Invitations sent out to speakers



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- ✓ Save the date across NSF EPSCoR



Save the Date

Water Workshop: Water Dynamics

November 9—12, 2008

**Sheraton Hotel and Conference Center
Burlington, Vermont**

http://www.uvm.edu/EPSCoR/Water_Conference

- ◇ **W**ater is a topic that should be of high priority in this century. Fundamental studies of water are important to all the NSF EPSCoR jurisdictions, and, indeed, are sponsored across many of the directorates at NSF
- ◇ We ask you to save the date for an important workshop on research on water dynamics to be hosted by Vermont EPSCoR and featuring research on water across the NSF EPSCoR jurisdictions
- ◇ The goals of the workshop will include sharing of information, exploration of collaborations and learning about the opportunities for research on water through the NSF

"Although the movement of water links natural systems and human social systems, there are many gaps in our basic scientific understanding of water dynamics. We still know very little about the effects of climate change and resulting changes in human interventions and land use on the availability and quality of fresh water.

One of the greatest environmental and economic challenges we face this century is to ensure an adequate, high-quality water supply for human use while maintaining the integrity of ecosystems. While humans can survive without petroleum, they can't survive without water." - Dr. Arden L. Bement, Jr., Director, NSF



Executing and Populating:



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- ✓ Save the date across NSF EPSCoR
- ✓ Committee members helped to get the word out
- ✓ Program booklet and abstract book



NSF EPSCoR WATER WORKSHOP: WATER DYNAMICS

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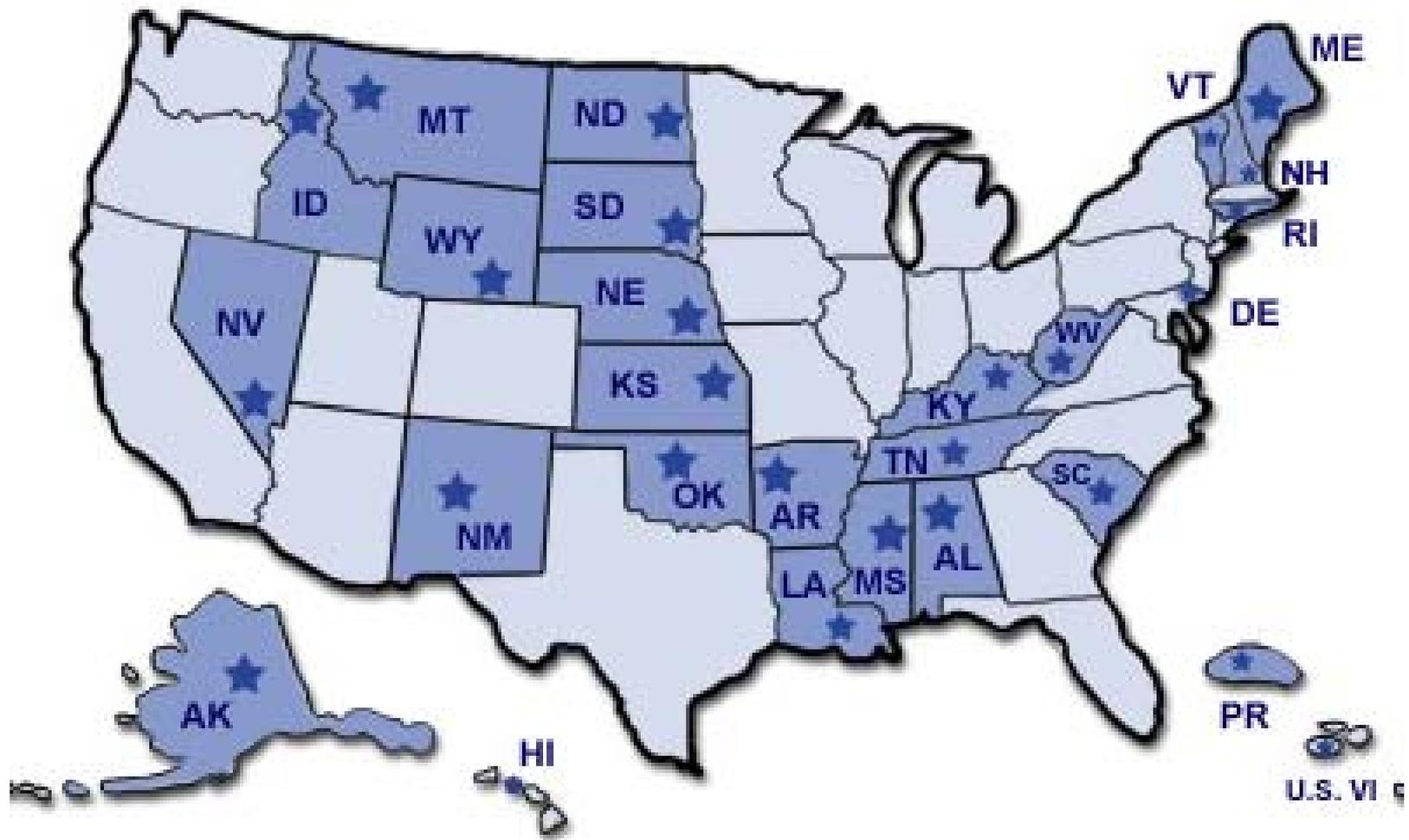
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- ✓ Program booklet and abstract book
- ✓ Web site up and running
- ✓ Registration web site
- ✓ Contracted with VPT for workshop video
- ✓ Chamber of Commerce



Evaluation: Expected Outcomes/Outputs

1. Fostering collaborations
2. Identification of opportunities for water research funding across directorates
3. Showcasing the excellence of water dynamics research in the NSF EPSCoR jurisdictions
4. Resources for the water research community
 - Templates from each jurisdiction



Evaluation: Expected Outcomes/Outputs

1. Fostering collaborations
2. Identification of opportunities for water research funding across directorates
3. Showcasing the excellence of water dynamics research in the NSF EPSCoR jurisdictions
4. Resources for the water research community
 - Templates from each jurisdiction
 - Abstracts on the web
 - Television episode highlighting water workshop for use in the NSF EPSCoR jurisdictions and NSF
<http://www.vpt.org/programs/emergingscience.html>
 - Website for publications, notifications, conferences can be posted with Links to all State Water Resource Centers
 - (5400 hits; 1200 people)

Evaluation Continued

Main Assessment Tools are Surveys after the conference and at two annual anniversaries

Results collected and analyzed by an outside evaluator
First survey results are posted on line

www.uvm.edu/EPSCoR/Water_Conference/

- 30% response rate to first survey
- Overall the attendees felt that the workshop was worthwhile; "in large part these outcomes have been achieved."
- "34% of the speakers are women/underrepresented groups"
- "Helped in networking and collaborating"
- Most common request for change is for more time for networking

Follow Up

Survey next year to follow any collaborations or other outcomes from the Workshop

****One collaboration is between VT and Puerto Rico workshop attendees**

****CUAHSI workshop in 2009!!! June 3-5, Burlington, VT**

****Follow on conference in Alaska "Living on Earth"**



Thank the Speakers and the Staff!



Lillian Gamache, Nora Joyal, Troy Krahl, Ben Ware

Thank you NSF EPSCoR!

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8. Developed a Template through which all jurisdictions will provide information on their water research; will be posted on the web for examination before and after the meeting.

9. Developed a web site that will remain in place long term as a resource for posting publications, notices and collaborations after the meeting.

10. Developed an assessment plan that will follow up on the outcomes of the meeting for at least two years.

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One of the greatest environmental and economic challenges we face this century is to ensure an adequate, high-quality water supply for human use while maintaining the integrity of ecosystems. While humans can survive without petroleum, they can't survive without water.

NSF will initiate a program, Dynamics of Water Processes in the Environment, to increase fundamental understanding of the Earth's freshwater systems, and our ability to predict dynamic changes in freshwater resources."

A. Bement, Feb. 4, 2008

Yet to do!

Finalize the speakers and co-chairs.

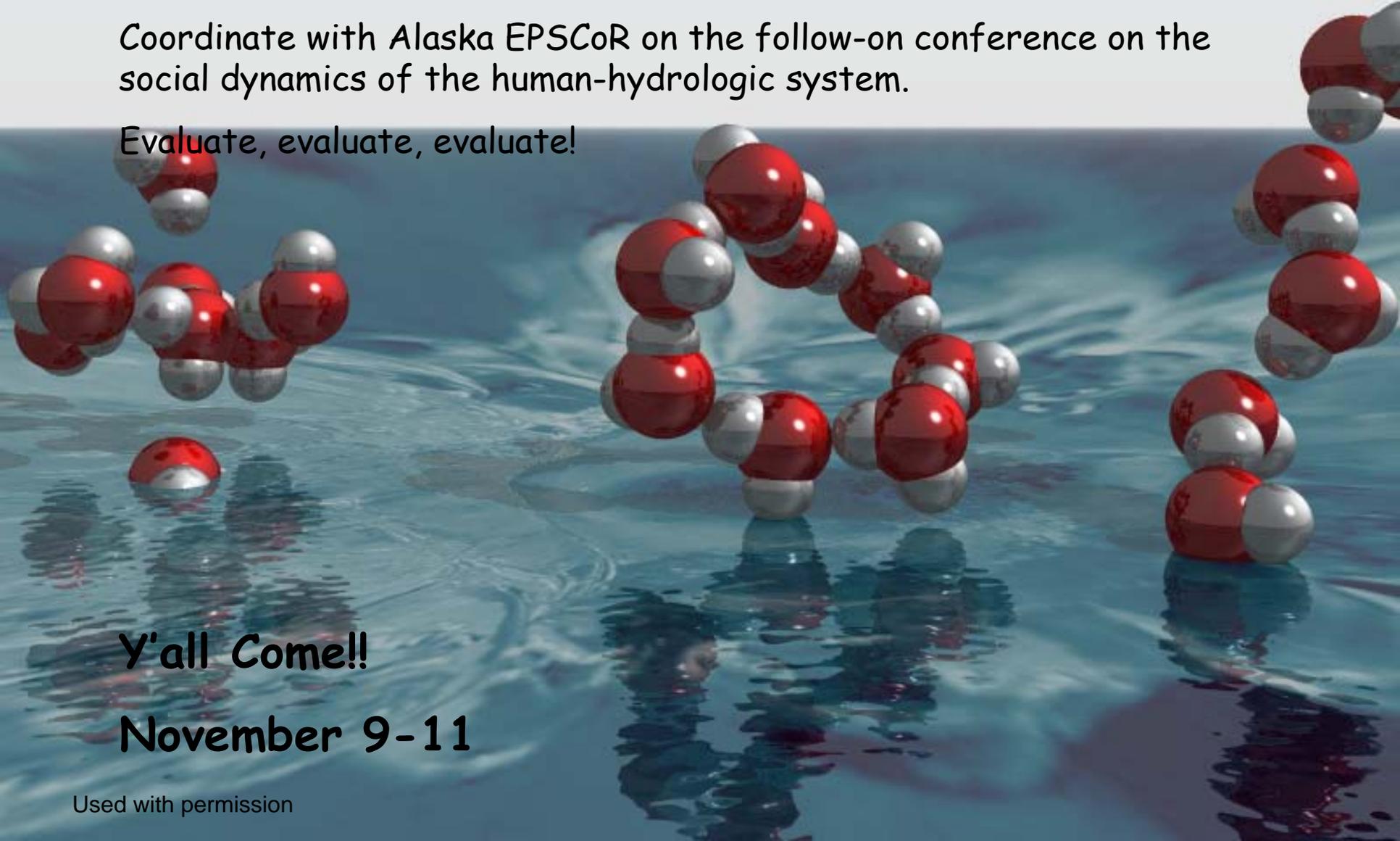
Produce a television episode based on the workshop!

Coordinate with Alaska EPSCoR on the follow-on conference on the social dynamics of the human-hydrologic system.

Evaluate, evaluate, evaluate!

Y'all Come!!

November 9-11



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Called for EPSCoR Participation Across the Jurisdictions

Planning Committee:

- 16 jurisdictions
- 26 committee members
- Multiple conference calls
- Important contributions from the committee members about speakers and descriptions of water research in each jurisdiction - interactive map

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