

AGENDA



Monday, October 24, 2011

8:00am - 8:00pm **Registration for All Attendees**
(Conference Event Center Hallway)

**NSF EPSCoR Project Director/Project Administrator/Education,
Outreach, and Diversity Meeting (Bay 5)**

12:00pm - 4:30pm **Lunch - Keynote**
Denise Barnes, Senior Staff Associate, EPSCoR, National Science
Foundation

6:00pm - 7:00pm **Welcome Gathering**
(light snacks - Bays 4 and 5)
Peter Goodwin, Project Director, Idaho EPSCoR

7:00pm **Dinner on your own** (except students in Communication Workshop)

7:00pm - 7:30pm **Student Poster Setup** (Casco/Kidd/North Cape Room)

7:30pm - 9:30pm **Student Communication Workshop**
(dinner provided for student participants - Bay 6)

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Tuesday, October 25, 2011

6:30am - 8:30am **Registration and Breakfast Buffet** (Dockside Restaurant)

Welcome Remarks (Bays 2 and 3)

Lt. Governor Brad Little, State of Idaho

8:30am - 9:15am **Duane Nellis**, President, University of Idaho

Henry Blount, Office Head, EPSCoR, National Science Foundation

Peter Goodwin, Project Director, Idaho EPSCoR

Plenary Session: Water and Environment (Bays 2 and 3)

9:15am - 10:00am

Sharon Nunes, Vice President, Smarter Cities Strategy & Solutions,
IBM Corporation - *The Role of Information Technology in Sustaining the
World's Water Systems*

10:00am - 10:30am **Networking Break** (Casco/Kidd/North Cape Room)

Plenary Session: Water and Environment (Bays 2 and 3)

Moderator: William Michener, Director, New Mexico EPSCoR

Clifford Dahm, Professor, Aquatic Ecology, University of New Mexico
- *Science, Policy, Planning and Competing Goals in River Management*

10:30am - 12:00pm

William 'Breck' Bowden, Patrick Professor of Watershed Science
& Planning, The University of Vermont - *Opportunities in Watershed
Research Made Possible by Emerging Technologies and Approaches*

Sibel Bargu, Assistant Professor, Department of Oceanography and
Coastal Sciences, Louisiana State University - *Recent Discoveries at the
Land-Receiving Water Interface*

Lunch - Keynote (Bays 2 and 3)

12:00pm - 1:30pm

Tim Killeen, Assistant Director for Geosciences, National Science
Foundation - *Science, Engineering and Education for Sustainability (SEES)*

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Tuesday, October 25, 2011 (continued)

Concurrent Sessions:

Water and Environment (Bay 4)

Moderator: Alex Kirby, Former BBC Environmental Correspondent

Gwen Jacobs, Professor, Systems Neuroscience, Informatics and Information Technology, Montana State University - *Enhancing the Role of EPSCoR Jurisdictions in Environmental Management through Cyberinfrastructure*

Thomas Piechota, Associate Vice President for Interdisciplinary Research, University of Nevada, Las Vegas - *The Challenge of Environmental Sustainability in Regions of Large Precipitation Variability*

Rich Loft, Director of Technology Development, Computational and Information Systems Laboratory, NCAR - *Data Challenges and the Role of HPC in Knowledge Discovery and Environmental Management*

Kathleen Bell, Associate Professor, School of Economics, University of Maine - *Getting to Water and Environment Solutions Through Sustainability Science*

1:30pm - 3:30pm

Workforce Development: Pipeline to STEM Workforce (Bay 5)

Moderator: Marta Collier, Education Outreach Director, Arkansas Science & Technology Authority

Jamai Blivin, CEO and President, Innovate-Educate - *Collective Impact in Addressing STEM Workforce Pipeline*

Steven Zipkes, Principal, Manor New Tech High School - *Unique Models That Enhance STEM Training and the Workforce*

Stephanie Smith, Vice President for Academic Affairs, Delaware Technical and Community College - *How Community Colleges are Widening Access to the STEM Pipeline through Partnership*

Student Communication Workshop (continued) (Bay 6)

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Tuesday, October 25, 2011 (continued)

3:30pm - 4:00pm **Networking Break** (Casco/Kidd/North Cape Room)

Concurrent Sessions:

Student Research Poster Presentations

(Casco/Kidd/North Cape Room)

4:00pm - 5:30pm **Workshop - iTunes U**

(until 6:00pm - 7th Floor Boardroom 5 A/B/C)

Dan McCormack, Education Development Executive and
James Kelley, Education Technology Consultant, Apple Computer,
Inc. - *Educational Tools and Technologies for Curriculum Delivery and
Research*

Native American Exhibition/Dinner (Bays 2 and 3)

A Cultural Learning Experience

6:00pm - 8:00pm

Dinner Keynote

Chief Allan, Coeur d'Alene Tribal Chairman

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Wednesday, October 26, 2011

6:30am - 8:30am **Breakfast Buffet** (Dockside Restaurant)

Plenary Session: Workforce Development (Bays 2 and 3)

8:30am - 10:00am **Jose Munoz**, Chief Technology Officer, National Science Foundation
Tom Burnett, National Manager of Strategic Initiatives, Apple Computer, Inc. - *New Technologies for Delivery of Resources and Training*

10:00am - 10:30am **Networking Break** (Casco/Kidd/North Cape Room)

Plenary Session: Workforce Development: Stopping the Leak in the STEM Pipeline (Bays 2 and 3)

10:30am - 12:00pm **Moderator: Gail McClure**, Arkansas NSF EPSCoR Director, Arkansas Science & Technology Authority
Mark Wilson, State Director, Office of Curriculum, Career and Technical Education (South Dakota), State Department of Education - *Creating a Technical Workforce*
Kim Adams, Corporate Vice President, Diversity, Inclusion and Equal Opportunity Programs, Lockheed Martin - *Reaching the Young Future Workforce*
Dan Daly, Director, AIME, University of Alabama - *Unleashing the Entrepreneurial Forces for Job Creation*

12:00pm - 1:30pm **Lunch - Keynote** (Bays 2 and 3)
Clifford Gabriel, Acting Director, Office of Integrative Activities, National Science Foundation

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Wednesday, October 26, 2011 (continued)

Concurrent Sessions:

EPSCoR Governing Committee Best Practices (Bay 4)

Moderator: John N. Evans, President, Vermont Technology Council

Henry Blount, Office Head, EPSCoR, National Science Foundation

Christine Smith, Executive Director, Science and Technology Advisory Council, Rhode Island EPSCoR

Brian Noland, Chancellor, West Virginia Higher Education Policy Commission

Jack Jekowski, Chair, New Mexico EPSCoR State Committee

John N. Evans, President, Vermont Technology Council

Communicating Science (Bay 5)

Moderator: Susan Mason, Special Projects Section Head, OLPA/National Science Foundation

1:30pm - 3:30pm

Chris Mooney, Bestselling Science Journalist, Commentator, and Author - *Unscientific America*

Alex Kirby, Former BBC Environmental Correspondent - *State of Science Journalism*

Susan Mason, Special Projects Section Head, OLPA/National Science Foundation - *Why Communicating Science is Essential*

Dan Agan, President, Panthera Group LLC - *Towards Better Science Communications*

Joe Schreiber, President, Mattmar Productions - *The Science Communications Opportunity*

Workshop - iTunes U (7th Floor Boardroom 5 A/B/C)

Dan McCormack, Education Development Executive and

James Kelley, Education Technology Consultant, Apple Computer, Inc. - *Educational Tools and Technologies for Curriculum Delivery and Research*

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Wednesday, October 26, 2011 (continued)

3:30pm - 3:45pm **Break and Preparation for Tour**

Coeur d'Alene Lake Tour w/Research Speaker and Dinner

Meet in Bays 2 and 3 at 3:45 pm sharp

3:45pm - 6:30pm **Introductory Remarks**

Philip Cernera, Director Lake Management, Coeur d'Alene Tribe - *Lake Coeur d'Alene: Overview of Tribal Perspectives*

Dinner

6:30pm - 8:00pm **Student-led Networking Event**

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Thursday, October 27, 2011

6:30am - 8:30am **Breakfast Buffet** (Dockside Restaurant)

Plenary Session: Energy (Bays 2 and 3)

8:30am - 10:00am **Paul Werbos**, Program Director, EFRI and ECCS, National Science Foundation - *Energy Challenges Facing the Nation and NSF Initiatives to Address Them*

Ronald Surdam, Director of the University of Wyoming Carbon Management Institute, University of Wyoming - *Energy Generation, Carbon Storage and Water Production*

10:00am - 10:30am **Networking Break** (Casco/Kidd/North Cape Room)

Plenary Session: Energy (Bays 2 and 3)

10:30am - 12:00pm **Moderator: Kristin Bowman-James**, University Distinguished Professor Chemistry; Project Director Kansas, NSF EPSCoR, The University of Kansas

Judy Wu, University Distinguished Professor, Department of Physics and Astronomy, University of Kansas - *Nanotechnology for Renewable Energy*

Alan Mantooh, Distinguished Professor, Electrical Engineering, University of Arkansas - *Evolution to Revolution: The Emerging Smart Grid in America*

Tamara Floyd Smith, Associate Professor of Chemical Engineering, Tuskegee University - *Towards Integrating Nanoparticle Enhanced Phase Change Materials (NEPCM) and Microfluidics for Thermal Management in High Heat Flux Electronics*

Lunch - Keynote: EPSCoR Enhancing State and Regional Economic, Educational, and Outreach Opportunities (Bays 2 and 3)

12:00pm - 1:30pm **Dedric Carter**, Senior Advisor for Strategic Initiatives, National Science Foundation - *Opportunities Afforded to Jurisdictions by Various NSF EPSCoR Initiatives*

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Thursday, October 27, 2011 (continued)

Concurrent Sessions:

Plenary Session: EPSCoR Enhancing State and Regional Economic, Educational, and Outreach Opportunities (Bays 2 and 3)

This session will showcase how NSF EPSCoR science, technology, engineering and mathematics (STEM) initiatives bear on state and regional economic development enhancement, as well as educational, diversity, and outreach opportunities.

Moderator: Peter Alfonso, Vice President for Research and Economic Development, University of Rhode Island

Karina Edmonds, Technology Transfer Coordinator, U.S.

1:30pm - 3:15pm

Department of Energy

Brian Noland, Chancellor, West Virginia Higher Education Policy Commission

Paul Risser, Chair and Chief Operating Officer, University Research Cabinet, University of Oklahoma; Emeritus Chancellor, Oklahoma State System of Higher Education

Lee Todd, Jr., Professor of Engineering; Former President, University of Kentucky

Student Professional Development Workshop (Bay 6)

Steps Forward (Bays 2 and 3)

3:15pm - 3:30pm

Henry Blount, Office Head, EPSCoR, National Science Foundation

Peter Goodwin, Project Director, Idaho EPSCoR

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Thursday, October 27, 2011 (continued)

Concurrent Sessions:

Workforce Development: Creating an Intelligent Workforce

(Bay 5)

Moderator: Pips Veazey, Outreach Manager, Alaska EPSCoR

John Mateja, Director, McNair Scholars Program, Murray State University - *Providing Undergraduate Research Opportunities: Why and How*

Lil Alessa, Director, The Resilience and Adaptive Management Group, University of Alaska Anchorage - *Developing Interdisciplinary Research Programs*

Regina Schofield, Director, Corporate Engagement & Education Outreach, Battelle - *Using Philanthropy Strategically to Support STEM*

3:45pm - 5:30pm

Energy (Bay 4)

Moderator: William Gern, Vice President for Research and Economic Development, University of Wyoming

Jon P. Christophersen, Senior Scientist, Energy Storage & Transportation Systems, Idaho National Laboratory - *Accelerated Life Testing of Advanced Battery Technologies for Electric, Hybrid Electric, and Plug-In Hybrid Electric Vehicle Applications*

Inanc Senocak, Assistant Professor, Mechanical & Biomedical Engineering, Boise State University - *Multi-scale Wind Power Forecasting using a Many-core Computing Paradigm*

Moises Carreon, Assistant Professor of Chemical Engineering, University of Louisville - *Novel Membranes for Efficient CO₂ Separation*

Sumit Chaudhary, Assistant Professor, Department of Electrical and Computer Engineering, Iowa State University - *Accomplishments, Challenges, and Innovative Approaches in Organic Solar Cells*

5:30pm

Conference Adjourns - Dinner on your own
