Monday, October 24, 2011

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

12:00pm - 4:30pm  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)
**Tuesday, October 25, 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>6:30am - 8:30am</td>
<td>Registration and Breakfast Buffet <em>(Dockside Restaurant)</em></td>
<td>Bays 2 and 3</td>
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<tr>
<td>8:30am - 9:15am</td>
<td><strong>Welcome Remarks</strong> <em>(Bays 2 and 3)</em></td>
<td>Lt. Governor Brad Little, State of Idaho</td>
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<td>Duane Nellis, President, University of Idaho</td>
<td>Henry Blount, Office Head, EPSCoR, National Science Foundation</td>
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<td>Peter Goodwin, Project Director, Idaho EPSCoR</td>
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<tr>
<td>9:15am - 10:00am</td>
<td><strong>Plenary Session: Water and Environment</strong> <em>(Bays 2 and 3)</em></td>
<td>Sharon Nunes, Vice President, Smarter Cities Strategy &amp; Solutions, IBM Corporation - <em>The Role of Information Technology in Sustaining the World's Water Systems</em></td>
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<tr>
<td>10:00am - 10:30am</td>
<td><strong>Networking Break</strong> <em>(Casco/Kidd/North Cape Room)</em></td>
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<tr>
<td>10:30am - 12:00pm</td>
<td><strong>Plenary Session: Water and Environment</strong> <em>(Bays 2 and 3)</em></td>
<td>Moderator: William Michener, Director, New Mexico EPSCoR Clifford Dahm, Professor, Aquatic Ecology, University of New Mexico - <em>Science, Policy, Planning and Competing Goals in River Management</em> William ‘Breck’ Bowden, Patrick Professor of Watershed Science &amp; Planning, The University of Vermont - <em>Opportunities in Watershed Research Made Possible by Emerging Technologies and Approaches</em> Sibel Bargu, Assistant Professor, Department of Oceanography and Coastal Sciences, Louisiana State University - <em>Recent Discoveries at the Land-Receiving Water Interface</em></td>
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<td>12:00pm - 1:30pm</td>
<td><strong>Lunch - Keynote</strong> <em>(Bays 2 and 3)</em></td>
<td>Tim Killeen, Assistant Director for Geosciences, National Science Foundation - <em>Science, Engineering and Education for Sustainability (SEES)</em></td>
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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)
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*

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**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
Wednesday, October 26, 2011

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

8:30am - 10:00am  Plenary Session: Workforce Development (Bays 2 and 3)
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)

10:30am - 12:00pm  Plenary Session: Workforce Development: Stopping the Leak in the STEM Pipeline (Bays 2 and 3)
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
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*
Wednesday, October 26, 2011 (continued)

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

3:45pm - 6:30pm  Coeur d’Alene Lake Tour w/Research Speaker and Dinner
        Meet in Bays 2 and 3 at 3:45 pm sharp

        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
Thursday, October 27, 2011

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

**Plenary Session: Energy** (Bays 2 and 3)

- **Paul Werbos**, Program Director, EFRI and ECCS, National Science Foundation - *Energy Challenges Facing the Nation and NSF Initiatives to Address Them*

8:30am - 10:00am

- **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)

- **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*

10:30am - 12:00pm

- **Alan Mantooth**, 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*

12:00pm - 1:30pm  **Lunch - Keynote: EPSCoR Enhancing State and Regional Economic, Educational, and Outreach Opportunities** (Bays 2 and 3)

- **Dedric Carter**, Senior Advisor for Strategic Initiatives, National Science Foundation - *Opportunities Afforded to Jurisdictions by Various NSF EPSCoR Initiatives*
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. 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
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*

**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