

**3rd Annual Pacific Northwest Climate Science Conference, 1-2 October 2012
Boise Centre, Boise, Idaho**

Opening Plenary

Welcome and Introductions

Von P Walden, University of Idaho, Conference Chair

David H. Bieter, Mayor of Boise, Idaho

M. Duane Nellis, President, University of Idaho

Jack McIver, Vice President of Research, University of Idaho

Climate, Change and Adaptation: Are we learning?

Roger Pulwarty, NOAA

Columbia Basin Impacts and Adaptation

The Columbia River Treaty

Barbara Cosens, Law School, University of Idaho

Projections of climate change extremes in the Canadian Columbia Basin

Trevor Murdock, Pacific Climate Impacts Consortium

Potential Climate Change Impacts and Vulnerabilities to Forest Ecosystems

Greg Utzig, Kutenai Nature Investigations Ltd.

Climate and Economic Impacts on 2030 Water Supply and Demand in the

Columbia River Basin, Michael Barber, Washington State University

Communities adapting to climate change: From dialogue to action in the

Canadian Columbia Basin, Ingrid Liepa and Jeff Zukiwsky, Columbia Basin Trust

Climate Variability

Climate variability of the Pacific Northwest

Nick Bond, University of Washington, JISAO

Projected climate scenarios for the Pacific Northwest (CMIP5)

John Abatzoglou, University of Idaho

Vulnerability Assessments

The Pacific Northwest Climate Change Vulnerability Assessment

Michael Case and Joshua Lawler, University of Washington

Climate change in grasslands, shrublands, and deserts of the interior American West: A review and needs assessment

Deborah Finch, U.S. Forest Service, Rocky Mountain Research Station

Hydrology

[An Overview of the Columbia Basin Climate Change Scenarios Project](#)

Alan Hamlet, Climate Impacts, Group, University of Washington

[Mapping hydrologic sensitivities in the Columbia River Basin](#)

Julie Vano, University of Washington

[Validation of the VIC model for streamflow metrics on western U.S. streams](#)

Charles Luce, U.S. Forest Service R&D, Boise

[Modeling hydrologic uncertainty and agricultural water security in the PNW](#)

Venkat Sridhar, Boise State University

[The influence of mountain topography on meteorological and runoff characteristics](#)

Chris Tennant, Idaho State University

[Groundwater Control of Summer Stream Temperature in the Pacific Northwest](#)

Tim Mayer, U.S. Fish and Wildlife Service

[Inclusion of climate change projections into flood frequency analysis using Bayesian statistics: application to the American and Santiam Rivers](#)

Kara DiFrancesco, Oregon State University

[Effects of Climate Change on Hydrology and Water Management in the Skagit River Basin](#)

Se-Yuen Lee, University of Washington

[Effects of Projected Twenty-First Century Sea Level Rise, Storm Surge, and River Flooding on Water Levels in Puget Sound Floodplains and Estuaries](#)

Joseph Hamman, University of Washington

[Spatio-temporal Modeling of Flood Events over the Columbia River Basin due to Climate Change](#)

Mohammad Reza Najafi, Portland State University

Conservation

[The Northwest Climate Science Center: science, services, and partnerships](#)

Gustavo Bisbal, Director, Northwest Climate Science Center

[Prioritizing Landscape Conservation Cooperative Science Needs: Climate as a Critical Driver](#)

Sean Finn, Great Basin Landscape Conservation Cooperative

[Assessing Aquatic Ecosystem Responses to Climate Change: Linking Science in Adaptive Management](#)

Clint Muhlfeld, USGS Northern Rocky Mountain Science Center, University of MT

[Climate and Upland Ecosystems: Points of sensitivity and adaptation variability in sagebrush steppe viewed from a single species](#)

Lar Svenson and Matt Germino, USGS, Forest and Rangeland Eco. Science Center

[Modeling climate change effects on the hydrology of Pacific Northwest wetland ecosystems](#)

Maureen Ryan, University of Washington

[Ecological Minimums Required by Greater Sage-grouse: Understanding Fundamental Relationships for Tracking Future Habitat Distributions](#)

Steven Knick, U.S. Geological Survey

Terrestrial

[Indicators of climate change in Idaho: The intersection of biophysical change with social perceptions across a diverse landscape](#)

Zion Klos, University of Idaho

[Cheatgrass and dieoff mapping in the Northern Great Basin](#)

Don Major, U.S. Dept of Interior, Bureau of Land Management - Idaho

[Assessing climate change impacts on forest management and hydrology: new data, new results](#)

Guillaume Mauger, Climate Impacts Group, University of Washington

[Cold Vulnerability in a Warming World: Changes in spring False Starts in the Northwestern US](#)

Alexander Peterson, University of Idaho

[Charred Forests Increase Snowmelt: Effects of Soot and Burnt Woody Debris on Snow Albedo](#)

Anne Nolin, Oregon State University

Agriculture

[Overview of Climate Change and Agriculture](#)

Chad Kruger, Director, Center for Sustaining Agriculture and Natural Resources

[Panel discussion on Large Agriculture-Climate Research](#)

*Jennifer Adam, Elizabeth Whitefield, Washington State University
Sanford Eigenbrode, University of Idaho*

Climate Change Communication

[Review of Climate Change Communications](#)

David Patte, U.S. Fish and Wildlife Service

[Climate Communications and Behavior Change - Trends and Opportunities](#)

Cara Pike, Director, Social Capital Project

[Communicating Climate Science to Nonscientists and Politicians](#)

*Gwen Griffith, DVM, MS; Cumberland River Compact; Curriculum Director for
Climate Solutions University, a program of the Model Forest Policy Program*

[Place-based Climate Change Education](#)

Jessica Thompson, Northern Michigan University

[Climate Change Youth Ambassadors](#)

Aneka Singlaub, North Cascades Institute

Aquatics

[Addressing Ecological Resource Impacts in a Changing Climate in the Bureau of Reclamation](#)

Toni Turner, U.S. Bureau of Reclamation

[NorWeST: A Stream Temperature Database and Model for All Streams in the Northwestern US](#)

Dan Isaak, U.S. Forest Service, Boise

[Observed coastal ocean chlorophyll variability during 1997-2010](#)

Todd Mitchell, Climate Impacts Group, University of Washington

[Incorporating Climate Change Vulnerability into a Regional Aquatic Restoration Decision Support Tool](#)

Jocelyn Tutak, EcoTrust

Adaptation

[Influences Of Greenhouse Gas Emission Reduction Options On Water Use In Energy Production: Implications for the Columbia River Basin](#)

Craig Cooper, Idaho National Laboratory

[Development of a National Adaptive-Integrated Water Resources Management \(A-IWRM\) Framework](#)

Gerald Sehlke, Idaho National Laboratory

[The Impacts of Climatic and Water Supply Conditions on Agricultural Land Use Decisions in Idaho](#)

Scott Lowe, Boise State University

[British Columbia Agriculture Climate Change Adaptation Risk & Opportunity Assessment](#)

Erica Crawford and Trevor Murdock, BC Ag & Food Climate Action Initiative, PCIC

[Visualization and Costing of Adaptation to Sea Level Rise in Metro Vancouver](#)

Tina Neale, BC Ministry of Environment

Human Health

[The Health Impacts of Climate Change](#)

Andrea Hamberg, Oregon Health Authority

[Extreme heat and health impacts in Oregon](#)

Mandy Green, Oregon Health Authority

[Marine Pathogens as Indicators of Global Climate Change](#)

Richard Lillie, Washington Department of Health