

2017 NORTHWEST CLIMATE CONFERENCE

DRAFT AGENDA (8.24.17)

**** Pending speaker confirmation Updates will be posted ****

Tacoma Conference Center | October 9-11, 2017

MONDAY October 9, 2017

6:30-8:30 pm Evening Kick-Off Reception (open to the public) – *Program under development*

TUESDAY October 10, 2017

8:30-9:45 am

OPENING PLENARY

8:30 - 9:00

Opening comments from **Joe Casola**, *Conference Chair, University of Washington Climate Impacts Group*
Welcome from **Mayor Marilyn Strickland**, *Mayor of Tacoma*

9:00 - 9:45

Invited Presentation: Sea-level Rise: Dealing With the Expected and Avoiding the Extreme
Richard Alley, *Pennsylvania State University*

9:45 - 10:00

BREAK

10:00 - 11:30

CONCURRENT SESSIONS

	Agriculture	Terrestrial and Aquatic Ecosystems - 1	Communications - 1	Pacific Northwest Climate/Hydrology - 1
10:00 - 10:10	Introduction	Introduction	Introduction	Introduction
10:10 - 10:30	Climate Change: Are the Tools Available What Agricultural Professionals Need? Sonia Hall , <i>Washington State University</i>	Long-term Persistence of Aspen in Snowpack-Dependent Ecosystems Alec Kretchum , <i>Portland State University</i>	Applying Social Science to Overcome Communication Challenges Gwen Shaughnessy , <i>The Baldwin Group</i>	Climate Impacts Assessments for Regional Governments in Southwestern British Columbia Using High-Resolution Statistical Downscaling, Stephen Sobie , <i>University of Victoria</i>
10:30 - 10:50	A Research Network Approach for Provincial Agriculture Climate Change Adaptation in British Columbia Jason M Lussier , <i>BC Agricultural Climate Adaptation Research Network</i>	Transitional Mortality: Widespread Forest Die-Off Associated With the Transition From Winter Snow to Rain Brian Buma , <i>University of Alaska</i>	Using Story Project Methods to Engage with Partners and Communicate Climate Risks Emily York , <i>Oregon Health Authority</i>	Extreme Precipitation and Snowpack: Model and Observations Naomi Goldenson , <i>University of Washington</i>

TUESDAY, OCTOBER 10 (continued)

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Agriculture	Terrestrial and Aquatic Ecosystems	Communications	Pacific Northwest Climate/Hydrology	
10:50 - 11:10	<p>Making Climate Projections Useful for Growers Clark Seavert, <i>Oregon State University</i></p>	<p>Refugia from Drought and Mountain Pine Beetle in a Whitebark and Lodgepole Pine Ecosystem Jennifer Cartwright, <i>US Geological Survey</i></p>	<p>Teaching Climate Science in Rural Communities Tamara Neuffer & Chrys Bertolotto, <i>Stillaguamish Tribe</i></p>	<p>Atmospheric Rivers, Climate Change, and the Howard Hanson Dam Michael Warner, <i>U.S. Army Corps of Engineers</i></p>
11:10 - 11:30	<p>Development of a Pacific Northwest Biochar Atlas: Translating the Results of Biochar Studies into Usable Information for Growers Kristin Trippe, <i>U.S. Department of Agriculture</i></p>	<p>Mechanistic Modeling of Bark Beetle Outbreaks to Assess the Influences of Climate Change Jeffrey A Hicke, <i>University of Idaho</i></p>	<p>Let's Talk about Climate Change: Creating an App to Spark Meaningful Conversation Michelle Tigchelaar & Judy Twedt, <i>University of Washington</i></p>	<p>Increasing Hydrologic Drought Severity in the Northwestern US Mountain Rivers: Causal Influences and Implications for Drought Projections Charles Luce, <i>U.S. Forest Service</i></p>
11:30 -12:30	LUNCH (provided)			
Infrastructure	Terrestrial and Aquatic Ecosystems	Equity/Human Health	Pacific Northwest Climate/Hydrology	
12:30 - 12:40	Introduction	Introduction	Introduction	
12:40 - 1:00	<p>Flood Risk Management in Washington State: How Can We Make it More Resilient? Haley Kennard, <i>University of Washington</i></p>	<p>Connecting Today's Climates to Future Analogs to Facilitate Species Movement Under Climate Change Caitlin Littlefield, <i>University of Washington</i></p>	<p>Climate Atlas - Mapping Climate Impacts on Vulnerable Populations in Seattle Christopher Wierzbicki, <i>Futurewise</i></p>	<p>New Snow Metrics for Decision Support Anne Nolin, <i>Oregon State University</i></p>
1:00 - 1:20	<p>Integrating Climate Change Considerations Into Public Works Project Planning and Design in Snohomish County Andrea Martin & Manuela Winter, <i>Cascadia Consulting</i></p>	<p>The Northwest as a Hotbed of Innovation in Conserving Climate-Connectivity - The Ability of Landscapes to Accommodate Species Range Shifts Meade Krosby, <i>UW Climate Impacts Group</i></p>	<p>Stay Safe in the Heat: Research and Response in Seattle's International District and Rainier Valley Neighborhoods Robin Pfohman, <i>Seattle and King County Public Health</i></p>	<p>Impacts of Glacier Recession on Pacific Northwest Water Resources Erin Whorton, <i>U.S. Geological Survey</i></p>

TUESDAY, OCTOBER 10 (continued)

	Infrastructure	Terrestrial and Aquatic Ecosystems	Equity/Human Health	Pacific Northwest Climate/Hydrology
1:20 - 1:40	<p>Increasing Resilience for Washington State Contaminated Sites - Conducting a Vulnerability Assessment and Development of an Adaptation Strategy</p> <p>Chance Asher, <i>Washington Department of Ecology</i></p>	<p>Can We Conserve Wetlands Under a Changing Climate? Mapping Wetland Hydrology Across and Ecoregion and Developing Climate Adaptation Recommendations</p> <p>Meghan Halabisky, <i>University of Washington</i></p>	<p>Managed Retreat as a Strategy for Climate Change Adaptation in Small Communities: Public Health Implications</p> <p>Andrew L Dannenberg, <i>University of Washington</i></p>	<p>Understanding Climate Impacts on the Rate and Extent of Glacier Loss in the Olympic Mountains</p> <p>Justin Pflug, <i>University of Washington</i></p>
1:40 - 2:00	<p>Building Coastal Resilience in the Pacific Northwest: Comparing Co-produced Coastal Adaptation Strategies in Tillamook County, OR and Grays Harbor County, WA</p> <p>Janan Evans-Wilent, <i>Oregon State University</i></p>	<p>How Do Trees Know When to Stop Growing?</p> <p>Connie Harrington, <i>U.S. Forest Service</i></p>	<p>Enjoying Warming: Using the Law to Mitigate Climate Change</p> <p>Sean Munger, <i>Rose Law Firm</i></p>	<p>Accelerated Snow and Glacier Melt in Washington State from Black Carbon Deposition</p> <p>Susan Kaspari, <i>Central Washington University</i></p>
2:00 - 2:30	BREAK			
2:30 - 4:00	Coastal and Marine Ecosystems	Terrestrial and Aquatic Ecosystems	Human Health	Communications
2:30 - 4:00	<p><i>Special Session</i></p> <p>Technical Tools for Improving Sea Level Rise Risk Assessment in Washington State</p> <p><i>Facilitated by Ian Miller</i>, <i>Washington Sea Grant</i></p>	<p><i>Special Session</i></p> <p>Developing Climate-Smart Strategies to Conserve Species and Habitats Through Vulnerability Assessments</p> <p><i>Facilitated by Lisa DeBruyckere</i>, <i>Columbia Basin Partner Forum</i></p>	<p><i>Special Session</i></p> <p>Use of Meteorological Data to Strengthen Public Health Surveillance of Risk and Disease, Response and Prevention</p> <p><i>Facilitated by Marnie Boardman</i>, <i>Washington State Department of Health</i></p>	<p><i>Special Session</i></p> <p>Communicating About Climate Change with Clarity & Impact: A Hands-On Opportunity to Enhance Your Climate Communications</p> <p><i>Facilitated by the UW Climate Impacts Group, King County, and Portland Water Bureau</i></p>
4:00 - 4:15	BREAK			
4:15 - 5:30	AFTERNOON PLENARY			
	Key Findings from the National Climate Assessment & the Puget Sound Climate Resilience Collaborative (program details coming)			
5:30 - 7:30	RECEPTION & POSTER SESSION (see list of accepted posters)			

WEDNESDAY, OCTOBER 11, 2017

8:30-9:45 am

OPENING PLENARY

8:30 – 9:45

Plenary Special Session

Climate Resiliency Planning: Turning Science into Action
Facilitated by Gretchen Greene, Maul Foster & Alongi

9:45 - 10:00

BREAK

CONCURRENT SESSIONS

10:00 - 11:30

Working Across Boundaries

Tribal

Infrastructure

Pacific Northwest Climate/Hydrology

10:00 - 10:10

Introduction

Introduction

Introduction

Introduction

Community-led Planning, Resilience, and Adaptation on San Juan Island

Salmon and Sagebrush: The Shoshone-Bannock Tribes Collaborative Approach to Adaptation Planning

Applied Sea Level Rise Science for Road Realignment and Design in San Juan County

Stream Restoration to Buffer Climate Change Impacts on Baseflows in the Upper Columbia Basin

10:10 - 10:30

Katie Fleming, *Friends of the San Juans*, & **Nora Ferm Nickum**, *Cascadia Consulting*

Daniel Stone, *Shoshone-Bannock Tribes* and **Ellu Nasser**, *Adaptation International*

Alexis Blue, *Coastal Geologic Services*

Susan Dickerson-Lange, *Natural Systems Design*

10:30 - 10:50

Roadmap to Recovery: Climate Change and Ecosystem Recovery in Puget Sound

Coastal Climate Change in SE Alaska: The ShoreZone Data Base and Observations and Experiences of Local Residents

Collaborating with The Netherlands on Climate Resiliency for Highways

Carol Lee Roalkvam, *WA Department of Transportation*

Stillaguamish Watershed Summer Flow Response to Regional Climate Variability: Implications for Salmon Productivity

Jennifer Pouliotte, *Puget Sound Partnership*

Linda Kruger, *U.S. Forest Service*

Frank Leonetti, *Snohomish County Public Works*

10:50 - 11:10

Learning From a Capacity-Based Approach to Adaptation Monitoring and Evaluation

A Climate Change Assessment of Vegetation, Fire, and Ecosystem Services for Tribal Lands in the Pacific Northwest

Olympia's Sea Level Rise Response Plan

Andy Haub, *City of Olympia*

Climate Change and Water Scarcity: The Potential for Social Responses and Institutional Resiliency in the Pacific Northwest

Johanna Wolf, *BC Ministry of Environment*

Michael Case, *University of Washington*

William Jaeger, *Oregon State University*

WEDNESDAY, OCTOBER 11 (continued)

	Working Across Boundaries	Tribal	Infrastructure	Pacific Northwest Climate/Hydrology
11:10 - 11:30	Measuring the Progress of Adaptation Made by State Agencies in Washington Joe Casola , <i>UW Climate Impacts Group</i>	Cultivating Tribal Capacity for Climate Change Adaptation Don Sampson , <i>Affiliated Tribes of Northwest Indians</i>	Future Tidal Wetlands of Oregon under Six Sea Level Rise Scenarios: Impacts, Locations, Priorities, and Planning Fran Recht , <i>Pacific States Marine Fisheries Commission</i>	Streamflow Deficits and Elasticity in Response to the 2015 Drought in the Western United States Christopher Konrad , <i>U.S. Geological Survey</i>

11:30 - 12:30

LUNCH

12:30 - 2:00

	Working Across Boundaries	Terrestrial and Aquatic Ecosystems	Infrastructure	Coastal and Marine Ecosystems
	<u><i>Special Session</i></u> Catalyzing Community Resilience: Bridging Science and Local Action <i>Facilitated by Tye Ferrell, Resilience Collaborative NW</i>	<u><i>Special Session</i></u> Picking Climate Change Winners and Losers in the Pacific Northwest Depends on Methodology and Scale <i>Facilitated by David Bell, U.S. Forest Service</i>	<u><i>Special Session</i></u> Stormwater and Flooding in King County: Co-Producing Research to Support Adaptation <i>Facilitated by Guillaume Mauger, UW Climate Impacts Group</i>	<u><i>Special Session</i></u> Multi-disciplinary Perspectives of Ocean Acidification <i>Facilitated by Lucas Hart, Northwest Straits Commission</i>

2:00 - 2:15

BREAK

2:15 - 4:00

CLOSING PLENARY

2:15 - 3:00	Valuing Climate Damages: Policy Needs, Scientific Challenges, and a Path Forward Kevin Rennert , <i>Resources for the Future</i>
3:00 - 3:25	Varying Actors, Varying Aspirations: Climate Change Policy and Native Nations Nives Dolsak , <i>University of Washington</i>
3:25 - 3:50	Flooding, Warm Nights, and Wildfires: How Community Defined Critical Thresholds for Extreme Events Can Be Used to Build Climate Resilience Sascha Petersen , <i>Adaptation International</i>
3:50 - 4:00	Closing comments & Conference close Joe Casola , <i>UW Climate Impacts Group</i>

Poster Session
Tuesday, Oct 10, 5:30-7:30 pm

**** Pending speaker confirmation. More posters expected.****

Posters will be on display for the duration of the conference. Poster presenters will be available for discussion during the poster session. Posters are listed in alphabetical order by topic and author's first name.

Agriculture

1. "Dry Farming Collaborative: participatory climate adaptation research"-- **Amy Garrett**, *Oregon State University Extension Service*
2. "Supporting 'Climate-Smart Ranching' in NE Oregon with a Community-Based Observing Network"-- **Hannah Gosnell**, *Oregon State University*
3. "Integrated adaptive scenarios for agriculture in the Yakima River basin: synergies and tradeoffs."-- **Kirti Rajagopalan**, *Washington State University*
4. "Sensitivities of Agricultural Nitrogen Use Efficiency to Climate Change and Climate Variability over the Pacific Northwest"-- **Mingliang Liu**, *Washington State University*

Coastal and Marine Ecosystems

5. "The Nature of the Policy Process is Hindering Comprehensive Sea Level Rise Policy"-- **Jessica Andrepont**, *Oregon State University*
6. "Projections of Future Transitions in Tidal Wetlands Under Sea Level Rise Within the Port Gamble S'Klallam Traditional Use Areas"-- **Mary Ramirez**, *University of Washington*
7. "Blue carbon in central Salish Sea eelgrass ecosystems"-- **Mira Lutz**, *Western Washington University*

Communications

8. "An Agenda Setting Approach to Understanding Planning for the Slow Onset Hazard of Drought in Idaho"-- **Alycia Bean**, *University of Idaho*
9. "Deliberative Mapping for a Changing Salish Sea: Acidification Indicators & Marine Protected Areas"-- **Katrina Radach**, *Western Washington University*
10. "Life of Pika: A Video Game about PNW Climate Impacts on Animals"-- **Life of Pika Team**, *EarthGamesUW*
11. "Campus Climates and Global Climates"-- **Nathaniel Matthews-Trigg**, *University of Washington Department of Global Health*

Equity

12. "Building an Environmental Justice Tool to Inform Climate Policy and Funding Priorities for Communities of Washington"-- **Esther Min**, *University of Washington*
13. "Climate Change, Public Health, and Social Equity in Washington State"-- **Katie Fellows**, *University of Washington*

Human Health

14. “Exploring the Associations between Climate and Bacterial Diarrheal Illnesses in Oregon: 2000-2016.”-- **Amber Lyon-Colbert**, *Oregon State University*

Hydrology and Water Resources

15. “Climate Change Research in Mountainous Headwater Regions of the Columbia River Basin”-- **Courtney Cooper**, *University of Idaho*
16. “Downstream water availability consequences of investment in new irrigation technologies” -- **Keyvan Malek**, *Washington State University*
17. “Modeling climate induced flow variability on the Umatilla River” -- **Scott O'Daniel**, *Umatilla Tribes*
18. “Soil and geologic controls on recharge and groundwater flow response to climate change: A case study of the Yakima River Basin”-- **Tung Nguyen**, *Washington State University*

Infrastructure

19. “Distributed Energy Generation for Climate Resilience” -- **Eliza Hotchkiss**, *National Renewable Energy Laboratory*

Pacific Northwest Climate

20. “The National Forest Climate Change Maps Project: providing climate change projections at a scale relevant to land managers”-- **Abby Lute**, *University of Idaho*
21. “An online tool for analyzing present and future climate anomalies in British Columbia”-- **Faron S Anslow**, *Pacific Climate Impacts Consortium*
22. “The Northwest Climate Toolbox”-- **Katherine Hegewisch**, *University of Idaho*
23. “The effect of land use and land cover changes on atmospheric composition and biogenic emissions over the western United States” -- **Mahmoudreza Momeni**, *Washington State University*
24. “Examining the Effects of Pacific Ocean Climatic Oscillations on Snow Water Equivalent in the Washington Cascade Range”-- **Matt Lubar**, *Western Washington University*
25. “The Water Climate Diagram Arc GIS Tool” -- **Michael Jennings**, *U.S. Forest Service*

Terrestrial and Aquatic Ecosystems

26. “Feasibility Assessment - Poplar-based production of ethyl lactate in Centralia, WA”-- **Amira Chowyuk**, *University of Washington*
27. “Will changes in climate impact height-diameter ratios of Douglas-fir?” -- **Dryw Jones**, *USDA FS Pacific Northwest Research Station*
28. “Assessing the relative contribution of climate change versus forest management in driving large wildfires” -- **Jianning Ren**, *Washington State University*

29. “Trends and vulnerability of ecosystem NPP in response to natural and anthropogenic environmental change in Montana from 1971 to 2010” -- **Jinxun Liu**, *USGS Western Geographic Science Center*
30. “How Does Climate Influence Ranges of Berry- and Nut-producing Native Northwestern Shrubs?” -- **Leslie Brodie**, *USDA FS Pacific Northwest Research Station*
31. “Modeling interactions among water availability, atmospheric controls, and vegetation productivity in western North America” -- **Linnia Hawkins**, *Oregon Climate Change Research Institute*
32. “The Available Science Assessment Process (ASAP): Evaluating the science behind climate adaptation actions” -- **Nicole DeCrappeo**, *Northwest Climate Science Center*
33. “How does the climate influence population dynamics of Mountain Monkeyflower?” - **Teodora Rautu**, *University of Washington*

Tribal Communities

34. “Climate Planning With Multiple Knowledge Systems: Lessons Learned from Pacific Northwest Tribes”-- **Miles Gordon**, *Ohio University*
35. “Building Tribal Capacity for Climate Change Vulnerability Assessment”-- **Meade Krosby**, *Climate Impacts Group, University of Washington*

Working Across Boundaries

36. “The Northwest Climate Science Center: A partnership for co-producing actionable science in support of Northwest climate resilience” -- **Amy Snover**, *Climate Impacts Group*
37. “Regional Climate Enterprise in the Pacific Northwest: Where should we go from here?” -- **Guillaume Mauger**, *UW Climate Impacts Group*
38. “How can we grow the resilience of the Puget Sound region? Fifty cross-sector leaders agree: Grass roots and cross-sector collaboration and action are key” -- **Katia Blackburn**, *Sustainable Seattle*
39. “Climate Land: Saving Dollars & Lives by Mitigating Floods, Fires and Other Hazards”-- **Michael Burnham**, *Thurston Regional Planning Council*
40. “Assessing Complex Water Resources Issues through Social Network Analysis and Participatory Process in the Coeur d’Alene Basin”-- **Rebecca Witinok-Huber**, *University of Idaho*