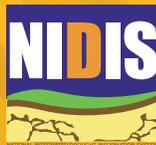


JANUARY 25 & 26, 2017
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WEDNESDAY, JANUARY 25

CASCADE A & B

7:00A – 8:30A **BREAKFAST & REGISTRATION**

8:30A – 8:40A **WELCOME & INTRODUCTION**

Joe Harrison, Washington State University

8:40A – 10:00A **MANAGING THE UNCERTAINTIES OF WATER SUPPLY & QUALITY (STAKEHOLDER PANEL)**

MODERATOR: CHAD KRUGER

Scott Revell, Roza Irrigation District; Les Perkins, Farmers Conservation Alliance; Kevin Chambers, wine grower, Oregon Wine Association; Jay Gordon, Washington State Dairy Federation; Kat Brigham, Umatilla Tribal Member; Bill Dewey, Taylor Shellfish; Mary Lou Soscia, EPA Water Quality

10:00A – 10:15A **BREAK**

10:15A – 11:00A **PARCHED AND DRENCHED: FUTURE CLIMATE AND WATER RESOURCES IN THE PACIFIC NORTHWEST**

John Abatzoglou, Associate Professor, University of Idaho Department of Geography

11:00A – 12:00P **ADAPTING TO LESS WATER: REGIONAL STORIES OF WATER CONSERVATION**

MODERATOR: GABRIELLE ROESCH McNALLY

Dry Farming Collaborative 📍 Amy Garrett, Oregon State University Extension

Low Elevation Spray Application 📍 Steve Shively, Shivley Custom Farming

The Time is Right to Optimize Your Irrigation System 📍 Jac le Roux, Irrinet, LLC

12:00P – 1:10P **LUNCH**

1:10P – 2:10P **REVIEW OF CLIMATE IMPACTS ON WATER MANAGEMENT WITHIN WASHINGTON, OREGON & IDAHO IN RECENT YEARS**

Washington 📍 Jeff Marti, Drought Coordinator, Washington State Department of Ecology

Oregon 📍 Lanaya Blakely, Oregon Water Resources Department

Idaho 📍 David Hoekema, Hydrologist, Idaho Department of Water Resources

2:10P – 2:50P **REMOTE SENSING, SATELLITE & SURFACE OBSERVATIONS TO SUPPORT IMPROVEMENTS IN AGRICULTURAL WATER MANAGEMENT**

Forrest Melton, Sr. Research Scientist, NASA Ames Research Center & California State University Monterey Bay

2:50P – 3:10P **BREAK**

3:10P – 4:50P **WATER QUALITY**

MODERATOR: JOE HARRISON

3:10P **Riparian Proper Functioning Condition and Washington Riparian Service Team Primer** 📍 Tip Hudson

3:30P **Use of Poplar for Storm Water Management**
📍 Bob Simmons

3:50P **Geospatial Analysis and Pesticide Modeling in Oregon PSP Watersheds** 📍 Philip Janey

4:10P **Salmon Populations Under Stress: How Various Stressors, Including Climate Change will Impact Salmon in the Future** 📍 John Stark

4:30P **Invasive Species, Climate Change and Water Quality in the Pacific Northwest** 📍 Sharon Collman

CASCADE A

PROJECTED IMPACTS TO CLIMATE CHANGE

MODERATOR: KIRTI RAJAGOPALAN

Water in 2035: Water Supply and Demand Forecast for the Columbia River Basin 📍 Kirti Rajagopalan

Timing is Everything: Implications of a Changing Hydroclimate for Water Availability, Growing Seasons and Irrigation Demand 📍 Margaret Matter

Hood River Water Conservation Strategy: Achieving Long-term Water Resource Reliability for Agriculture and Local Fish Populations 📍 Cindy Thieman

The Double Whammy: Changing Rangeland Uses Interact with Climate to Affect Northwest Waters
📍 Linda Hardesty

Revenue: Eleven Western U.S. States 📍 Ballav Aryal

CASCADE B

6:30P – 8:30P **RECEPTION & POSTER PRESENTATIONS**

See back page for a list of posters presented.

STEVENSON BALLROOM

THURSDAY, JANUARY 26

CASCADE A & B

6:30A – 8:00A **BREAKFAST & REGISTRATION**

8:00A – 8:45A **THE HIRST CASE (WA): AN OPPORTUNITY TO INTEGRATE LAND USE LAW & WATER LAW TO PREPARE FOR CLIMATE CHANGE**

Jean Melious, J.D., Western Washington University

8:45A – 9:15A **CLIMATE IMPLICATIONS TO GROUNDWATER SUPPLY IN THE PACIFIC NORTHWEST**

Matt Bachmann, USGS Washington Water Science Center

9:15A – 10:15A **POLICY IMPLICATIONS OF CLIMATE CHANGE ON WATER SUPPLY MANAGEMENT**

MODERATOR: MIKE BRADY

Susan Adams, Executive Director, Washington Water Trust; Tom Tebb, Director, Washington State Department of Ecology, Office of the Columbia River; Dan Haller, Aspect Consulting

10:15A – 10:30A **BREAK**

10:30A – 11:10A **FOOD FOR THOUGHT: IMPACTS OF CLIMATE CHANGE FOR AGRICULTURE IN THE COLUMBIA RIVER BASIN**

Mike Brady, Washington State University School of Economics; Kirti Rajagopalan, Washington State University Center for Sustainable Agriculture and Natural Resources

11:10A – 12:15P **KEEPING UP WITH RESEARCH AND EXTENSION EFFORTS IN THE PACIFIC NORTHWEST**

MODERATOR: JOE HARRISON

National Water and Climate Center 📍 Mike Strobel, Director

Northwest Climate Hub 📍 Bea Van Horne, Director

NIDIS Drought Early Warning System 📍 John Stevenson, PNW Climate Impacts Research Consortium (CIRC)

Center for Sustainable Agriculture & Natural Resources/NW WA Research & Extension Center 📍 Chad Kruger, Director

University of Idaho Extension 📍 Jim Ekins, Area Water Educator

Northwest Climate Toolbox 📍 John Abatzoglou, Associate Professor, University of Idaho Department of Geology

12:15P – 1:20P **LUNCH**

1:20P – 2:00P **DROUGHT IMPACTS: TURNING EXPERIENCE INTO DATA**

Kelly Smith, Communication Coordinator, National Drought Mitigation Center

2:00P – 2:30P **2015 POST DROUGHT ASSESSMENT**

Gary Bahr, Natural Resources Assessment Manager, Washington State Department of Agriculture

2:30P – 2:50P **BREAK**

2:50P – 4:30P **WATER EFFICIENCY & CONSERVATION**

MODERATOR: TROY PETERS

2:50P **On Farm Opportunities for Water & Energy Conservation** 📍 Fred Vosper

3:10P **Low Elevation Precision Application (LEPA) and Low Elevation Spray Application (LESA) in the PNW** 📍 Dick Stroh

3:30P **Water Conservation Opportunities through Low Elevation Spray Application** 📍 Troy Peters

3:50P **Opportunities for Funding Water & Energy Conservation** 📍 Robert Wallace

4:10P **Applicability of Low Altitude Multispectral Sensing Toward Crop- and Site-Specific Application of LESA** 📍 Abid Sarwar

4:30P **Advancing Drought Monitoring Using a Small Unmanned Aerial System for Irrigated Agriculture** 📍 Jae Ryu

CASCADE A

REGIONAL WATER MANAGEMENT

MODERATOR: AMY GARRETT

Can Biochar Conserve Water in Pacific Northwest Soils? 📍 Claire Phillips

Upper Snake River Tribes Foundation 📍 Bob Austin

Agriculture Resilience Planning 📍 Cindy Dittbrenner

Evaluating Landscape Ornamentals for Un-irrigated Landscapes in Western Oregon 📍 Neil Bell

Community Learning & Water Resources Improvements 📍 Jim Ekins

Performance of Porous Pavements Under Controlled Conditions in Western WA 📍 Ani Jayakaran

CASCADE B

WASHINGTON RIPARIAN TEAM INTEREST WORKSHOP

MODERATOR: TIP HUDSON

This workshop will familiarize potential future Washington Riparian Team members with the objectives of the team, opportunities to receive training, and fundamentals of the nationally recognized PFC assessment process.

State service teams, operating under the Creeks and Communities Network, use Riparian Proper Functioning Condition (PFC) as a communication tool to organize diverse groups around a common goal for a stream system by focusing on physical function of streams. Members of the Washington Riparian Team will serve as a pool of trained individuals from a variety of natural resource disciplines who will assemble as needed in interdisciplinary teams to conduct formal PFC assessments and communicate with local problem-solving groups and agencies.

HOOD

POSTER PRESENTATIONS

STEVENS ON BALLROOM

DAN BERNE

EMPOWERING PRECISION
IRRIGATION WITH DATA

LAUREN BURNS

MANAGING STREET TREE
CANOPY AND COMPOSITION
AS A MEANS TO REDUCE URBAN
AIR AND RUNOFF TEMPERATURES
IN PORTLAND, OREGON

NANNETTE HUBER

ASSESSMENT OF NON-POINT
SOURCE PHOSPHORUS POLLUTION
POTENTIAL IN THE INCREASINGLY
URBANIZED PUGET SOUND REGION

CHRISSY LUCAS

REDUCING EXPOSURE TO
ENVIRONMENTAL HAZARDS
BY PROMOTING DOMESTIC
WELL WATER SAFETY

CHAD KRUGER

FARMER TO FARMER:
MULTIMEDIA CASE STUDIES TO
INCREASE RESILIENCE AMONG
FARMERS IN THE PACIFIC NORTHWEST

MARGARET MATTER

TIMING IS EVERYTHING:
IMPLICATIONS OF CHANGING
HYDROCLIMATE FOR WATER
AVAILABILITY, GROWING SEASONS
AND IRRIGATION DEMAND

SHANNON NEIBURGS

CLIMATE CHANGE EFFECTS ON
GRAZING MANAGEMENT AND
BEEF CATTLE PRODUCTION IN
THE PACIFIC NORTHWEST

DON MCMORAN

WSU WISE

BROOKE SAARI

AGCLIMATE.NET –
A NEW MODEL FOR CLIMATE
CHANGE EXTENSION

GET CONNECTED



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