



2010 OWEB BIENNIAL CONFERENCE

WORKING TOGETHER *for* HEALTHY WATERSHEDS

November 15-17

Schedule at a Glance

Pendleton Convention Center

MONDAY November 15

- Noon Opening luncheon • Exhibitor Hall
- 1:15 Tribal Blessing
- 1:30 Welcome from OWEB, Board Co-Chair opening remarks, etc.
- 2:20 Eric Quaempts, First Foods Mission
- 3:30 End of Luncheon • Return to Hotels
- 4:30 Buses leave hotels for reception and dinner
- 4:45–9:00 Reception • Tamástslíkt Cultural Institute; First Foods Dinner • Longhouse

TUESDAY November 16

- 8:00 Networking breakfast and exhibits
- 9:00 Mini-Grant Applications Due; General Session, Peter Donaldson, Spirit of the Oregon Plan Awards
- 10:30–11:00 Break • Exhibitor Hall
- 11:00–12:30 Session 1

West 1. Groundwater and Surface Water Investigations	West 2. Sandy River Basin Partnership	West 3. Teachers as Watershed Researchers	West 4. Working Landscapes
East 4. Mid-Columbia Steelhead Recovery	Happy Canyon. Grant Program - Using Online Tools	East 3. Grant Program - Council Support Application Training	

- 12:30–1:45 Luncheon
- 2:00–3:30 Session 2

West 1. Pesticides and Water Quality	West 2. Beavers and Watershed Restoration	West 3. Student Projects and NOCLI	West 4. Restoring the Deschutes Basin
East 4. Restoring and Monitoring Meacham Creek	Happy Canyon. Grant Program - Council Support Follow-up	East 3. Education/Outreach Round Table	

- 3:30 Break • Exhibitor Hall
- 4:00–5:30 Session 3
- 5:30–6:30 Reception • Exhibitor Hall with Poster Session
- 6:30 Dinner / Steve Amen, OPB

West 1. Effectiveness Monitoring for Water Quality	West 2. Monitoring Long-Term Restoration Results	West 3. Salmon + People	West 4. Ecosystem Services in Oregon
East 4. Birch Creek Accomplishments	Happy Canyon. Basics of GIS	East 3. Small Grant Team Discussion	

WEDNESDAY November 17

- 8:00–9:00 Networking breakfast and exhibits
- 9:00–10:30 Session 4

West 1. Partnering with Agriculture	West 2. Detecting, Documenting and Responding to Invasive Species	West 3. Walla Walla and Umatilla Rivers	West 4. Willamette River History and Future
East 4. Open for Networking	Happy Canyon. ArcGIS 9.3	East 3. Council Support Application Training	Main Hall. Mentor Program

- 10:30 Break • Exhibitor Hall
- 11:00–12:30 Session 5

West 1. Urban Stormwater Management	West 2. Restoration Project Planning	West 3. Wolf Creek Monitoring: A Partnership Story	West 4. Restoration in the Klamath Basin
East 4. Education and Outreach East of the Cascades	Happy Canyon. Grant Program Open Questions	East 3. Open for Networking	

- 12:30–2:00 Closing Luncheon / Mini-Grants Awarded



Workshop Session 1
Tuesday, November 16 • 11:00 am – 12:30 pm
Location – West 1

TRACK: CLEAN WATER

Title: Groundwater and Surface Water Investigations: Useful Preparations, Calculations, and Visual Aids

Presenters:

***Kate Ely, Umatilla Basin Hydrologist**

Confederated Tribes of the Umatilla Indian Reservation

Kate Ely has worked 25 years in the hydrologic sciences and 15 years with CTUIR. She holds a Master's in Hydrology/Hydrogeology and Bachelor's in Geology from California State University, Chico. She oversees water studies in the Umatilla Basin and is responsible for all aspects of a study including grant writing, project/study development, management and coordination, implementation and reporting of study results and findings. She is responsible for the seepage run project which was made possible through a small grant from the US Bureau of Indian Affairs.

Rick Henry, Hydrogeologist

Walla Walla Basin Watershed Council

Rick Henry serves as the lead technical advisor for the Walla Walla Basin Watershed Council. He possesses a Science in Geosciences from Penn State University. As a geologist/hydro geologist, he has more than 11 years of experience working in the continental US as well as the Antarctic.

Tara O'Donnell, Research Assistant

Water Resources Engineering, Oregon State University

Tara O'Donnell is a Research Assistant and Master's candidate in Water Resources Engineering at Oregon State University. She focuses on groundwater elevation monitoring and stream temperature modeling. From 2006 to 2009, she worked as a field technician and junior environmental consultant performing contaminated site investigations.

Learning Objectives:

After attending this presentation, participants will

1. Have learned the importance of understanding the groundwater and surface water connection to maintain a healthy river and wetland habitat.
2. Have gained practical approaches to characterize the interaction of groundwater and surface water in a river and floodplain system.
3. Be able to discuss what it takes to plan, implement and measure the gains to and losses from a managed river system (seepage run).
4. Be able to apply methods for estimating the sources of late summer streamflow from groundwater data.
5. Be able to discuss different tools for illustrating and communicating data in a manner that is meaningful to stakeholders.

Presentation Description:

Groundwater and surface water connection impacts water quantity and quality, serving as an important link for our understanding of clean water issues. This presentation will explore three different aspects of understanding and representing the groundwater and surface water connection. In fact, it is often difficult to separate the two, and altering one will impact the other. For example, pumping water out of the ground will modify the timing and volume of stream flows; drawing water from a stream will modify groundwater flow and availability. One way to look at this system is a seepage run which consists of making multiple stream flow measurements along a stream at the same time to show where the stream is gaining or losing water. Explanations are usually found by looking at the underlying geology, floodplain systems, and water-control structures. Conducting a seepage run along 100 stream miles takes collaboration and organization. Specific methods for working with floodplain groundwater level data and estimating the surface water and groundwater connection will be introduced. Finally, methods to illustrate data in a manner that is meaningful to stakeholders will be presented.

* Denotes lead presenter



Workshop Session 1
Tuesday, November 16 • 11:00 am – 12:30 pm
Location – West 2

TRACK: HEALTHY HABITAT

Title: A Case Study of the Sandy River Basin Partnership

Presenters:

Jennifer Bloeser, Conservation Director

The Freshwater Trust

Jennifer Bloeser began working for The Freshwater Trust in 2009 and has been working on aquatic conservation issues for the past 15 years including twelve years for the Pacific Marine Conservation Council first as their Science Director and then as Executive Director. She holds a Master's in Natural Resource Management with a specialization in fisheries from Humboldt State University as well as dual Bachelor's in Environmental Science and Marine Science from East Stroudsburg University.

Lisa Norris, Natural Resources Staff Officer

US Forest Service, Mt. Hood NF

Lisa Norris has worked for the USDA Forest Service for 33 years in the area of natural resources restoration and management. In her current position as Natural Resources Staff Officer for the Mt. Hood National Forest, she specializes in collaborative partnerships with a focus on restoration of public land resources. She has been an active member of the Sandy River Basin Partners since 1999, and recently represented the US Forest Service on the Lower Columbia River Stakeholder Advisory Team for Salmon Recovery.

***Steve Wise, Executive Director**

Sandy River Basin Watershed Council

Steve Wise recently returned to Oregon to become the Sandy River Basin Watershed Council's first Executive Director, bringing nearly 20 years experience in river and ecosystem conservation at Opal Creek Ancient Forest Center, several other Northwest non-profits, and most recently the Center for Neighborhood Technology in Chicago. He taught 'Salmonomics 101' at the University of Oregon's Environmental Studies Program. He holds a Bachelor's in History from the University of Michigan and a Master's in Space Studies from the University of North Dakota.

Learning Objectives:

After attending this presentation, participants will

1. Have increased knowledge of the Sandy River Basin Partner's restoration priority setting approach and action agenda and be able to compare that to other approaches.
2. Be inspired to take a strategic long-term view of the basin in which they work.
3. Be motivated to invest in personal and organization relationships necessary to sustain an effective long-term partnership.
4. Be able to describe several practical strategies for expanding effective partnerships in their own watersheds.

Presentation Description:

This presentation will share the approach, process and results of a basin-wide habitat restoration planning process designed and implemented by 15 partner agencies and organizations in the Sandy River Basin. The presentations will focus on the progression from initial development of the partnership, through science and planning used to prioritize anchor habitat actions, and initial implementation results in priority sub-basins. Each segment will include a short breakout session that will examine materials and planning tools used to develop the Sandy Basin strategy. Participants will discuss how to adapt similar plans and tools in their own efforts and brainstorm ideas for taking a long-term view of restoring their own basin.



Workshop Session 1
Tuesday, November 16 • 11:00 am – 12:30 pm
Location – West 3

TRACK: WORKING TOGETHER

Title: Teachers as Watershed Researchers

Presenters:

***Susan Sahnou, Director**

Oregon Natural Resources Education Program, College of Forestry, OSU

Susan Sahnou has been an environmental educator for over 30 years. Her background includes managing and directing programs focused on building understanding and knowledge about Oregon's natural resources.

Jill Semlick, High School Teacher, Marshall High School

Pauling Academy of Integrated Sciences

Jill Semlick is a high school science teacher and a past participant and facilitator of the TasR project. The Marshall Campus student body is the most diverse in the Portland area. She has initiated and maintained stewardship and service learning projects using scientific inquiry with many local and federal agencies.

Learning Objectives:

After attending this presentation, participants will

1. Be able to identify and describe the challenges teachers face in engaging students in outdoor field experiences as well as practical ways for overcoming these challenges.
2. Be able to describe the types of activities they can provide which will help build the confidence of teachers in their ability to apply new learning and knowledge.
3. Have a greater understanding of how to approach and engage teachers as partners in watershed research.

Presentation Description:

For those who provide programming for teachers, this successful professional development model demonstrates the importance of providing teachers with in-depth experiences. This presentation includes an overview of the organization of the Teachers as Watershed Researchers project, an outline of what is covered in each workshop, and video clips of teachers in the field. Participants will experience sample activities and examine one teacher's experience engaging her class. Evaluation results of the project demonstrates how one program successfully measures success.



Workshop Session 1
Tuesday, November 16 • 11:00 am – 12:30 pm
Location – West 4

TRACK: UNIQUE APPROACH

Title: Working Landscapes – A Study in Partnerships

Presenters:

Scott Ferguson, Owner and Senior Forester

Trout Mountain Forestry

Scott Ferguson is an owner and senior forester for Trout Mountain Forestry, a consulting firm that specializes in conservation-based management in Northwest Oregon. He received his Bachelor's from Yale and a Master's in forestry from Oregon State University. For the past 25 years, he has been an "on the ground" forest manager for numerous private and public ownerships, learning through direct experience (i.e. trial and error) what works and what to avoid. He was the first forester in the Northwest to be certified under the Forest Stewardship Council, and remains an advocate for "raising the bar" for forest practices in our region. Current projects include helping to establish "working forest" conservation easements on several forests of long-term clients.

Jeff Fields, Stewardship Ecologist

The Nature Conservancy

Jeff Fields' responsibilities include strategic planning, fundraising and providing management for the Conservancy's diverse projects in Wallowa and Grant counties. This includes the Zumwalt Prairie Preserve, Clear Lake Ridge Preserve, and the Dunstan Homestead Preserve. In addition to supervising regional staff and their projects, he also works to build strong conservation partnerships with the broad range of governmental and private stakeholders that own, manage or influence the Conservancy's conservation portfolio in Wallowa County. In his career, he has worked for a diverse range of resource management organizations, including the Rogue Institute for Ecology and Economy, University of Idaho, US Forest Service, Weyerhaeuser Corporation, and the Government of Nepal's Ministry of Forests, while with the Peace Corps. He has a Bachelor's in Forest Management from the University of Wisconsin, and a Master's in Forest Resources from the University of Idaho.

***Michael Pope, Executive Director**

Greenbelt Land Trust

Michael Pope has been the Executive Director of the Greenbelt Land Trust since 2010. He holds a Bachelor's, Master's and Ph.D in Wildlife Science from Oregon State University. As a wildlife biologist, he conducted research on marbled murrelets, black bear, Roosevelt elk, sage, ruffed and blue grouse and mountain quail. He was a Research Assistant and Faculty Research Associate at Oregon State University in the Fisheries and Wildlife Department from 1989-2004. He also worked for the Oregon Department of Fish and Wildlife as the Wildlife Mitigation Coordinator and as the Oregon Conservation Strategy Coordinator. Mr. Pope attended a Boatbuilding School for two years in Maine during the 1970s and was a professional boat builder in Maine, Maryland, Washington and Alaska from 1976-1987.

Learning Objectives:

After attending this presentation, participants will

1. Be able to describe how a property can be enhanced or restored through integrating agriculture/timber extraction, and/or grazing with conservation values.
2. Be able to apply the knowledge gained from specific examples to create a management plan that incorporates farming and conservation values.
3. Be able to create a funding strategy for working landscape projects that utilizes several approaches.

Presentation Description:

There are few working lands models that demonstrate how conservation values can be enhanced through the use of responsible agricultural, forest management, and farming practices. Besides CREP and other riparian restoration programs, there is still a need to investigate how agricultural and timber operations can, on a larger scale, be utilized as a restoration tool, particularly rotational grazing and crop management, and responsible timber harvesting. This workshop will discuss how these management techniques can help with the re-introduction of native forbs and grasses, improve water quality, and assist in the eradication of invasive species. A diverse panel of professionals will engage participants across a wide range of careers and interests to think about working lands as a vital link in the enhancement of biodiversity in Oregon.

* Denotes lead presenter



Workshop Session 1
Tuesday, November 16 • 11:00 am – 12:30 pm
Location – East 4

TRACK: LOCAL PARTNER

Title: Challenge and Success in the Early Stages of Mid-Columbia Steelhead Recovery Implementation

Presenters:

Adrienne Averett, Eastside Implementation Coordinator

Oregon Department of Fish and Wildlife

Adrienne Averett began working for the Oregon Department of Fish and Wildlife (ODFW) in September 2010 as the Eastside Implementation Coordinator, based out of the Northeast Regional Office in La Grande. Her primary responsibility in this role is working with multiple entities and local partners to implement Oregon's Middle Columbia River Steelhead DPS Conservation and Recovery Plan. Prior to joining ODFW, she spent the past 11 years working in a variety of applied water resource management capacities including water supply planning, basin-wide in-stream flow and fish habitat modeling, freshwater mussel conservation, and fisheries management. She is a native of Virginia and earned undergraduate degrees in fisheries science and geology from Virginia Tech. She spends her free time exploring the amazing outdoor recreation opportunities in northeastern Oregon and counting down the days until she can purchase a resident fishing license.

Jeff Blackwood, Chair

Umatilla Basin Watershed Council

Jeff Blackwood joined the Umatilla Basin Watershed Council in 2005 after retiring from a 35 year career with the US Forest Service and now chairs the UBWC Board. He has been involved in the Mid Columbia Steelhead Recovery planning process, and has also assisted NMFS in recovery planning in the Oregon portion of the Snake River.

Rosemary Furfey, Salmon Recovery Coordinator

National Marine Fisheries Service

Rosemary Furfey has worked with Oregon Department of Fish and Wildlife (ODFW), the Governor's Office and the National Marine Fisheries Service (NMFS) to produce the 2009 Middle Columbia River Steelhead Distinct Population Segment Recovery Plan (DPS). She is now actively involved in seeing the implementation of this recovery plan in Oregon, and coordinating implementation DPS-wide with Washington. She is also working with Jeff Blackwood and Sue Knapp to produce the Snake River Recovery Plan.

***Suzanne Knapp, Natural Resources Policy Advisor**

Governor's Office

Suzanne Knapp has been involved in the fisheries and natural resources field for over 30 years, mostly within the Columbia River Basin. She has worked for various federal and state agencies, universities, and private consultants. For the last 21 years, she has worked for the State of Oregon, specifically 17 years with the Oregon Department of Fish and Wildlife as a fisheries research biologist and watershed district manager, and over 4 years with the Oregon Governor's Office as a policy advisor in natural resources. In this capacity, she works mostly on issues and policies related to salmon recovery, hydropower relicensing, Klamath Settlement, and the Oregon Plan for Salmon and Watersheds, all of which require coordination with multiple state and federal natural resource agencies. She received her Bachelor's in Zoology and Community and Environmental Health. She received her Master's in Biology in 1981.

Tami Sasser, Executive Director

Umatilla Basin Watershed Council

Tami Sasser began working for Watershed Councils in January of 2003, and has served as the Executive Director of the Umatilla Basin watershed council for four years. She has gained extensive knowledge of the planning process through the development of subbasin plans, TMDL implementation plans, and most recently through the development of the Mid-Columbia steelhead recovery plan. Acting as an outreach hub for the Mid-Columbia steelhead recovery plan, the Umatilla Basin Watershed Council has built relationships to foster the implementation process. She brings experience of on-the-ground restoration, the regulatory permitting process, and working in partnership to meet multiple priorities in completing construction of restoration projects.

* Denotes lead presenter



Learning Objectives:

After attending this presentation, participants will

1. Be able to describe the collaboration involved in the Middle Columbia Steelhead Recovery Plan implementation.
2. Have increased awareness of the challenges and successes in the early stages of recovery plan implementation.
3. Be aware of the latest data regarding these species.
4. Have increased familiarity with those involved in the Middle Columbia Steelhead Recovery Plan.

Presentation Description:

In September of 2009, NOAA's Fisheries Service released its recovery plan for Middle Columbia River steelhead, a fish that was first given protection by listing as Threatened under the Endangered Species Act (ESA) in 1999. Species listed under the ESA have a significant effect on local social, economic, and cultural concerns and priorities. Recovery and de-listing of Middle Columbia steelhead is the goal of the recovery plan. Presenters will discuss the history on development of the plan, and the next step of implementation. After the background is presented, partners will have round table discussion including where priority projects have been identified, new information regarding species, monitoring, partnerships, and the opportunity to form new partnerships on future projects. This session will bring local attention to the challenges and successes in the early stages of recovery plan implementation. Discussion will also include lessons learned from plan development to on-the-ground project accomplishments.



Workshop Session 1
Tuesday, November 16 • 11:00 am – 12:30 pm
Location – Happy Canyon

TRACK: GRANT PROGRAM A

Title: Using OWEB Online Tools

Presenters:

Randy Emch, Grant Payment Coordinator

Oregon Watershed Enhancement Board

Randy Emch is the Grant Payment Coordinator and Contract Officer. He is responsible for application budget reviews, audits on grant payments, grant and budget amendments and final reporting requirements. He solicits, prepares and administers all of OWEB's Personal Service Contracts and holds OWEB fiscal training sessions around the state. He has degrees in Accounting and Business Management and is a native Oregonian.

***Ashley Seim, GIS and Web Site Specialist**

Oregon Watershed Enhancement Board

Ashley Seim manages OWEB's geographic information systems (GIS) and the content of the www.oregon.gov/oweb site. She provides spatial data for accountability and reporting purposes via online tools and the web site, and manages contracts that enhance the availability and usability of spatial data for the public. She has a Master's in Public Administration in Watershed Management from Portland State University and is a native Oregonian.

Learning Objectives:

After attending this presentation, participants will

1. Have an increased knowledge of how to obtain and view OWEB grants data online.
2. Have an understanding of where to access tools provided by OWEB for maintaining open grants, viewing grant locations, and viewing detailed information about completed restoration projects.
3. Have the skills to download OWEB grant data for a variety of purposes including grant application examples, detailed spreadsheets of funding amounts and reporting deadlines, spatial data for creating maps and more.

Presentation Description:

Learn about the OWEB Grant Management System (OGMS), the Oregon Watershed Restoration Inventory (OWRI), and the new OWEB Investment Tracker (OITT) from OWEB staff who regularly use and maintain these systems. Live demonstrations will instruct both new and veteran users.



Workshop Session 1
Tuesday, November 16 • 11:00 am – 12:30 pm

TRACK: GRANT PROGRAM B

Title: Watershed Council Support Application Training

Presenter:

Courtney Shaff, Grant Program Coordinator

Oregon Watershed Enhancement Board

Courtney Shaff's primary responsibility is to manage the Watershed Council Support grant process, which occurs once a biennium and funds watershed councils around the state. She has a Bachelor's Biology and Environmental Science from Wittenberg University and a Master's in Environmental Science from OSU.

Learning Objectives:

After attending this presentation, participants will

1. Have a greater understanding of the council support application.
2. Be able to list some of the essential components of a successful application.
3. Be able to assemble data, information and elements of their council's activities to complete a strong application.

Presentation Description:

OWEB awards watershed council support grants every two years. Applications are due on January 18, 2011. Find out how the application has changed, hear what OWEB recommends for applicants, and come ready with your questions as OWEB staff walk you through the 2011-2013 application form.



Workshop Session 2
Tuesday, November 16 • 2:00 – 3:30 pm

TRACK: CLEAN WATER

Title: Pesticides and Water Quality

Presenters:

Janet Gillaspie, Executive Director

Oregon Association of Clean Water Agencies

Janet Gillaspie has served as the Executive Director of the Oregon Association of Clean Water Agencies (ACWA) since 1995. ACWA is a private, not-for-profit trade association of Oregon's wastewater treatment and stormwater management organizations and associated professionals focused on protecting and enhancing Oregon's water quality for over 22 years.

Koto Kishida, Nonpoint Source Specialist

Oregon Department of Environmental Quality
Water Quality Division, Watershed Management Section

Koto Kishida has been working for the Department of Environmental Quality for 10 years. She worked at the DEQ laboratory for 3 years analyzing samples for the water programs, and has spent the last 7 years in the Nonpoint Source Program mainly working with state and federal agencies on nonpoint source pollution reduction. She is a member of DEQ Team Toxics and Oregon Water Quality Pesticide Management Team.

***Sheila Marcoe, Water Quality Specialist**

Oregon Department of Agriculture, Natural Resources Division

Sheila Marcoe has been working for the Oregon Department of Agriculture's Natural Resources Division for over 4 years as a Water Quality Specialist. Her duties include compliance and enforcement in 7 counties in the North Coast and North Willamette basins, outreach and education, oversight of 8 Soil and Water Conservation District's activities as they pertain to agricultural water quality management, and biennial reviews of the local Agricultural Water Quality Management Area Plan and rules. Prior to her employment with the State of Oregon, she worked for the State of California as an Environmental Scientist at the Colorado River Basin Regional Water Quality Control Board in the Watershed Planning Division. She received her Bachelor's in Environmental Studies from Sonoma State University, California.

Learning Objectives:

After attending this presentation, participants will

1. Have increased familiarity with DEQ's Toxic Reduction Strategy, Priority Persistent Pollutant list, and Water Quality Pesticides Management Team.
2. Be able to describe what is currently being done to reduce toxicity of our surface waters.
3. Be able to identify concrete actions local groups can take to partner with the current state-wide toxic reduction effort.

Presentation Description:

Surface and groundwater monitoring results in Oregon as well as new research findings that indicate chronic effects at low exposure levels for some toxic pollutants have raised concerns about the possible risks these chemicals pose to human health and aquatic life. This presentation will provide information on what state agencies, local partners, and permitted facilities in Oregon are doing to assess the presence of these pollutants in surface and groundwater. In addition, potential impacts, as well as protective measures that are being implemented to ensure that beneficial uses of Oregon's waters are being protected will be discussed. The presentation will include examples of how local groups such as watershed councils and soil and water conservation districts have been important partners in developing effective pollution prevention plans and taking action to reduce toxic pollution.



Workshop Session 2
Tuesday, November 16 • 2:00 – 3:30 pm

TRACK: HEALTHY HABITAT

Title: Beavers and Watershed Restoration in Oregon

Presenters:

***Dr. Wayne Hoffman, Coordinator**

MidCoast Watershed Councils

Dr. Wayne Hoffman has been the Council Coordinator for the MidCoast Watershed Councils for the past 11 years. He has a Ph.D in Biology, and has conducted research on wetlands and bird habitat use and requirements. Dr. Hoffman and cooperators have been surveying beaver dams and ponds in the Oregon Coast Range, and have a beaver-based restoration project.

Stan Petrowski, President

South Umpqua Rural Community Partnership

Stanley Petrowski is a rancher and watershed restoration practitioner. He is a leader in a project to restore beaver populations in the Elk Creek watershed, tributary to the South Umpqua.

Dr. Michael Pollack, Fisheries Researcher

NOAA Northwest Fisheries Science Center

Dr. Michael Pollack studies forest, stream and wetland ecosystems, including the influence of beaver habitat on coho smolt production and ecosystem function. Currently he is working on restoration and recovery pathways for degraded streams in the semi-arid regions of the Columbia River basin, including beaver reintroduction.

Learning Objectives:

After attending this presentation, participants will

1. Have increased confidence and knowledge regarding methods for overcoming social barriers in using beavers in restoration.
2. Be able to describe how beavers are part of and contribute to a healthy riparian ecosystem.
3. Be aware of the tools, information and resources available to those interested in returning beavers to habitats.

Presentation Description:

This presentation is for watershed practitioners who are aware of the value of beavers to watershed health and are looking for the tools, motivation, and resources they need to take action. Technical tips for monitoring, outreach and restoration paired with on-the-ground success stories will form the foundation of the presentation. In addition, there will be a facilitated discussion regarding outreach as well as a problem-solving session for those in the audience to ask for advice. Multiple handouts will be provided to extend the learning beyond the conference.



Workshop Session 2
Tuesday, November 16 • 2:00 – 3:30 pm

TRACK: WORKING TOGETHER

Title: Student Stewardship Projects and NOCLI

Presenters:

Traci Price, Education Director

The Freshwater Trust

Traci Price has led the No Oregon Child Left Inside (NOCLI) efforts, bringing together support from diverse stakeholders. She has over 10 years of experience working in the environmental education arena. She holds a Master's in Kinesiology from the University of Maryland which is reflective of her fervor for outdoor recreation. She is committed to helping youth experience, appreciate and become stewards of the natural world and to cultivating strategic partnerships and initiatives that ensure these opportunities for generations.

***Kolleen Yake, Education Coordinator**

Upper Deschutes Watershed Council and The Freshwater Trust

Kolleen Yake is an Education Coordinator with The Freshwater Trust and the Upper Deschutes Watershed Council (UDWC). She has led environmental education courses for educators, community leaders, and students throughout Alaska, Washington, and Oregon for over 10 years. She joined the UDWC in 2002 and The Freshwater Trust in 2005. Ms. Yake holds a Bachelor's in English from the University of California, Santa Barbara and a Master's in English Studies with an emphasis in Environmental Analysis from Western Washington University.

Learning Objectives:

After attending this presentation, participants will

1. Have increased knowledge about NOCLI and the statewide Environmental Literacy Plan.
2. Be able to describe an action plan to coordinate and implement a Student Stewardship Project in their own watershed.
3. Have increased understanding of how StreamWebs provides support for teachers, students, and watershed councils to develop Student Stewardship Projects.

Presentation Description:

By developing unique and collaborative working relationships between watershed councils, school district administrators, teachers, and agency partners, watershed education coordinators can learn to build highly effective outdoor classrooms for students of all ages. This workshop will help guide attendees to develop a watershed education model that aligns watershed stewardship objectives with No Oregon Child Left Inside statewide priorities and Oregon Department of Education learning benchmarks. Audience members will be engaged with questions and small group discussions to determine best ways to integrate the plan. In addition to the presentation of a highly effective watershed education program model, examples of hands-on learning activities will be on display for attendees to examine. A case study and interview with a past high school student steward will present and highlight watershed education outcomes from a students' perspective.



Workshop Session 2
Tuesday, November 16 • 2:00 – 3:30 pm

TRACK: UNIQUE APPROACH

Title: Restoring the Deschutes Basin

Presenters:

***Tod Heisler, Executive Director**

Deschutes River Conservancy

Tod Heisler joined the Deschutes River Conservancy (DRC) as Executive Director in April 2004. He has more than 25 years of executive management experience in non-profit organizations with 20 of these years in conservation and natural resources management. Prior to joining the DRC, he was Senior Vice President of Operations at Conservation International (CI) in Washington, DC, a thousand person organization operating in 30 countries. He has extensive experience in strategic planning, operations, fundraising, communications and marketing, and board relations. Under his leadership, the DRC grew 400% in four years, surpassing the \$6 million level in 2008. Oregon Business Magazine selected Mr. Heisler as one of Oregon's Great Leaders for 2007.

Ryan Houston, Executive Director

Upper Deschutes Watershed Council

Ryan Houston has been leading the Upper Deschutes Watershed Council (UDWC) since 2001. During this time, he has carried the organization through a five-fold expansion of its programs, developed more than \$10 million in community-based restoration and managed over 20 habitat restoration projects. Before joining the UDWC, he was a Senior Associate with Sycamore Associates LLC, focused on restoration and management of wetlands and endangered species in Northern California. He has also worked as a Field Ecologist for The Nature Conservancy, and as a Research Assistant at the Smithsonian Institution of Natural History in Washington, DC. Mr. Houston holds a Master's in Ecology and Evolutionary Biology from the University of Arizona and a Bachelor's in Environmental Science, Policy and Management from the University of California, Berkeley.

Brad Nye, Conservation Director

Deschutes Land Trust

Brad Nye has been with the Deschutes Land Trust since 2001. He oversees the Land Trust's conservation and stewardship programs. Prior to joining the Land Trust, he worked on habitat protection and restoration issues for the Warm Springs Tribes.

Learning Objectives:

After attending this presentation, participants will

1. Be able to describe how a team approach is helpful in overcoming the complexity of restoring a watershed.
2. Be able to describe five essential planning steps for moving up in scale for watershed restoration.
3. Be able to identify three concrete activities they can implement to improve relationships with partners in their region to enhance individual performance.

Presentation Description:

The target audiences for this presentation are director and management level watershed restoration professionals who are looking to increase their organizational effectiveness and expand the scope and impact of their restoration activities. They will study the Deschutes Special Investment Partnership to learn how to build effective partnerships. The Deschutes SIP represents the culmination of over six years of collaboration between the Crooked River and Upper Deschutes Watershed Councils, the Deschutes Land Trust and the Deschutes River Conservancy. Participants will be engaged through a facilitated panel and an opportunity for questions and answers throughout the session. The session will include an overview of the history and formation of the partnership, a detailed discussion of the benefits that have accrued as a result of this approach and a conversation amongst participants about the lessons learned along the way. Each SIP partner organization will be represented and will lend their unique perspective to the conversation.

* Denotes lead presenter



Workshop Session 2
Tuesday, November 16 • 2:00 – 3:30 pm

TRACK: LOCAL PARTNER

Title: Restoring and Monitoring Meacham Creek

Presenters:

David Crabtree, Fisheries Biologist, Project Manager

Walla Walla Ranger District, Umatilla National Forest

Dave Crabtree is the District Fisheries Biologist for the Walla Walla Ranger District of the Umatilla National Forest. He has a Ph.D in biology from Loma Linda University. His Ph.D thesis was on Growth lines in the shells of two species of Marine Bivalve molluscs. Before coming to Walla Walla, Mr. Crabtree was Biology Professor and Department Chair, and later Academic Dean, at Antillian College in Mayaguez, Puerto Rico. He has been working for the Forest Service with salmonids in the Northwest since 1991.

Mike Lambert, Fisheries Habitat Biologist, Project Manager

Confederated Tribes of the Umatilla Indian Reservation

Mike Lambert is a Fisheries Habitat Biologist and the Umatilla Subbasin project leader for the Umatilla Tribes. He has worked for the Umatilla Tribes since 2003 and has a work history in fisheries science dating back to 1994. He received his Bachelor's in Biology from Western Oregon University in Monmouth.

Scott O'Daniel, Research Geographer

Confederated Tribes of the Umatilla Indian Reservation

Scott O'Daniel applies field studies, remote sensing, and GIS to better understand interactions among geomorphology, hydrology and ecology in floodplain and river networks. He received his Bachelor's from Washington State University and a Master's from the University of California at Santa Barbara. Since 1996 he has worked for the Umatilla Tribes in northeast Oregon.

***Jim Webster, Habitat Program Supervisor**

Confederated Tribes of the Umatilla Indian Reservation

Jim Webster has 18 years of experience in watershed and stream restoration planning, design, implementation, and monitoring. He has worked for the Umatilla Tribes as a hydrologist and restoration biologist since 1998 and is currently the supervisor for the Fish Habitat Program overseeing project in 5 subbasins. He received a Bachelor's in Biology from Eastern Oregon University in La Grande, and completed 2 years of graduate courses in the College of Forest Engineering at Oregon State University.

Learning Objectives:

After attending this presentation, participants will

1. Gain an increased understanding of the portfolio of efforts and range of partners working to restore Meacham Creek.
2. Learn about a unique approach to developing a vision and strategy for restoration planning and design.
3. Be able to take elements from Meacham Creek's monitoring plan and techniques for application in their own watershed.

Presentation Description:

Floodplain and channel processes in Meacham Creek, a tributary to the Umatilla River, have been negatively impacted by past and current land management actions. As a result, the channel is disconnected from the floodplain and shallow groundwater table, streambanks are exposed and unstable, roughness features to dissipate flood flow energy are lacking, in-stream aquatic habitat has been removed and simplified, and water quality in terms of stream temperature and sediment routing is degraded. Guided by the First Foods Concept and the Umatilla River Vision a multiple phase restoration approach is being implemented to restore conditions for key salmonids and other aquatic species. The mix of land ownership and vested interests in the watershed requires significant communication and cooperation for project planning and implementation. Presentations will include an explanation of the Umatilla River Vision and its application to the Meacham Creek project, a description of the cooperative partnerships that have led to a successful planning effort, details of project actions and early results, and a description of detailed monitoring for hydrologic changes.

* Denotes lead presenter



Workshop Session 2
Tuesday, November 16 • 2:00 – 3:30 pm

TRACK: GRANT PROGRAM

Title: Grant Program Watershed Council Support Listening Sessions Follow-Up

Presenter:

Lauri Aunan, Grant Program Manager

Oregon Watershed Enhancement Board

Lauri Aunan has been the Grant Program Manager Since 2007. She has managed OWEB's twice yearly competitive grant cycles, watershed council support grants, and the small grant program. Prior to OWEB, she worked at Oregon DEQ as Water Quality Administrator and Government Relations Manager. She spent eight years with Oregon nonprofit conservation organizations; and practiced business litigation and real estate law. She has a law degree from the University of California, Berkeley, and a Bachelor's from Florida State University.

Learning Objective:

After attending this presentation, participants will

1. Engage in a deeper dialogue about what makes watershed councils successful and how OWEB watershed council funding and processes might be changed in order to build local capacity, provide base funding and promote strategic partnerships.

Presentation Description:

The February and March, 2010, Listening Sessions were the first step in an ongoing assessment of council support funding and capacity building needs and actions. OWEB's Board is committed to following up the Listening Sessions with actions. This session will be a dialogue between councils and OWEB on actions being taken to follow up after the Listening Sessions, and thoughts about the future of the council support program.



Workshop Session 3
Tuesday, November 16 • 4:00 – 5:30 pm

TRACK: CLEAN WATER

Title: Project to Program Effectiveness Monitoring for Water Quality

Presenters:

Doug Drake, Lower Willamette Basin Coordinator

Oregon Department of Environmental Quality, Northwest Region

Doug Drake is the Lower Willamette Basin Coordinator for the Oregon Department of Environmental Quality in Portland, Oregon. He has over 22 years of experience in aquatic biological monitoring in support of a number of agency programs, including the Oregon Plan for Salmon and Watersheds, the U.S. Environmental Protection Agency's Environmental Monitoring and Assessment Program (EMAP), development of sediment benchmarks, and implementation of watershed protection and monitoring plans. The emphasis of his work has been around integrating watershed-level approaches using adaptive management and appropriate effectiveness monitoring schemes. A focus area has been linking ecological indicators to the goals and objectives of Oregon's implementation of the Clean Water Act.

***Steve Hanson, Volunteer Monitoring Coordinator**

Oregon Department of Environmental Quality, Laboratory

Steve Hanson has coordinated the Oregon Department of Environmental Quality Laboratory's volunteer water quality monitoring program since 2002. In this position he has had the opportunity to work with groups conducting water quality monitoring across the state, providing assistance in monitoring plan development, sampling, analytical methods, and data management and analysis. He also worked primarily in Southwest Oregon collecting and analyzing data for DEQ's total maximum daily load model development program. Prior to his work with DEQ he did non-point source water quality monitoring with Oklahoma soil and water conservation districts and community conservation work in Uganda. His educational background is environmental sciences with degrees from the University of Oklahoma and Oregon Graduate Institute.

Learning Objectives:

After attending this presentation, participants will

1. Be able describe the strengths and weaknesses of effectiveness monitoring projects at different scales.
2. Be able to identify the scale at which their own projects lie on this spectrum.
3. Be able to identify at least 1 long-term water quality monitoring activity in their basin including at least three concrete steps to take to make that happen.

Presentation Description:

How effective are your projects? Do they improve water quality? Are the projects completed in your watershed improving water quality? This session will explore the spectrum of effectiveness monitoring ranging from a specific project to a whole program. We will discuss approaches for monitoring the effectiveness of different project types including appropriate spatial and temporal scales, indicators, design, and measures of success. Program level effectiveness will be discussed using criteria and examples presented from Washington and Oregon. Participants will be asked to explore the strengths, weaknesses and opportunities for each type of monitoring approach, identify where their interests lie, and give feedback on what they need to implement effectiveness monitoring. An example from an urban Willamette Valley watershed will be presented where information is gathered to evaluate the overall effectiveness of project implementation activity and answer the question: "Has this Implementation work yielded any effects at a program/watershed/reach level?"



Workshop Session 3
Tuesday, November 16 • 4:00 – 5:30 pm

TRACK: HEALTHY HABITAT

Title: Rethinking Strategy for Monitoring Long-term Restoration Results

Presenters:

Xanthippe Augerot, Executive Director

Mary's River Watershed Council

Xan Augerot has aided in development of international standards for salmonid status and trend monitoring and provided technical assistance to regional biologists and salmon advocates.

Nicole Czarnomski, Restoration Program Manager

Middle Fork Willamette Watershed Council

Nicole Czarnomski has a background in forestry and hydrology, especially as it relates to stream bank management, monitoring and riparian ecology.

***Todd Reeve, Watershed Program Director**

Bonneville Environmental Foundation

Todd Reeve has undertaken watershed restoration and fisheries research and assessment efforts across the Pacific Northwest for over 15 years, working with federal, state, and private agencies.

Learning Objectives:

After attending this presentation, participants will

1. Have an increased understanding for the purpose and benefits of working with other local watershed groups to develop streamline and cost effective monitoring strategies that can assess restoration results and facilitate adaptive management.
2. Be able to describe at least three near-term actions that are critical in the development of refinement of a long-term monitoring plan.
3. Be able to identify specific elements from this case study's sampling design and methods that will increase the effectiveness of monitoring activity in the participant's own watershed.

Presentation Description:

How do watershed groups verify that restoration activities are affecting long-term ecological improvements, and how can a cost-effective monitoring approach allow groups to adapt and improve restoration strategies over time? In this case-study, you will discover how seven different watershed councils worked together to develop a common monitoring strategy and create a streamlined, cost-effective monitoring plan. Based on this discussion, you will have an understanding of how your group might pool resources with other groups in your region to achieve new efficiencies and produce consistent and comparable monitoring results across multiple watersheds. From planning to implementation, you will discover the importance of clarifying assumptions about expected restoration outcomes prior to selecting indicators and monitoring protocols. We will describe the trade-offs between affordability, feasibility and generating scientifically valid results. You will gain an understanding of how your initial choices of indicators, selection of monitoring segments (sampling design), and choice of monitoring protocols may constrain what you will learn and can say about restoration outcomes. Share your own tales of monitoring methods that have worked, and bring your questions for the group's problem-solving skills.



Workshop Session 3
Tuesday, November • 16 4:00 – 5:30 pm

TRACK: WORKING TOGETHER

Title: Salmon + People

Presenters:

Peter Donaldson, Salmonpeople

Peter Donaldson, strategic storyteller and creator of the Salmonpeople Tour shares the Watershed Report, his latest creation for inspiring, measuring and broadcasting the practice of citizen stewardship. This inspiring pilot project is designed to engage 13 school districts, 27 cities and unite rural and urban dwellers that share the same watershed address, the Cedar River/Lake Washington Basin in King County, Washington. Student leaders in grades 9-12 collaborate with science, civics and sustainability professionals to produce a series of short video reports that track sustainability trends across multiple sectors, including school districts, city government, green business development and habitat restoration efforts. Learn the sticky strategies behind this sophisticated new outreach tool.

Tom Gallagher, Director

Ford Institute for Community Building at The Ford Family Foundation

Tom Gallagher joined the Foundation in 2003 as Director of the Ford Institute, which is dedicated to helping rural communities build the capacity to enhance and sustain their own vitality. Previously, He was the Leadership Development Specialist with Oregon State University Extension Service and on the faculty of the School of Forestry. Before joining OSU in 1996 he spent 17 years in Alaska, “retiring” from the University of Alaska with the rank of Professor of Public Administration. His primary areas of scholarship are natural resource management in a cross-cultural setting and public engagement in agency decisions. He is a Kellogg National Leadership Fellow and the founding editor of the Journal of Leadership Education. He holds a Master’s and Ph.D in Natural Resource Management from the University of Michigan and Bachelor of Landscape Architecture from the University of Oregon.

***Jon Souder, Executive Director**

Coos Watershed Association

Jon Souder has a Bachelor’s in Aquatic Ecology; a Master’s in Forest Management; and Ph.D in Natural Resources Economics and Policy. He is a tenured professor and has been a fisheries biologist for the federal government for the past 10 years.

Learning Objectives:

After attending this presentation, participants will

1. Have gained additional strategies for engaging community groups in watershed restoration activities.
2. Have gained useful tools for empowering the inherent leadership skills of local citizen champions including youth.
3. Have increased confidence in their ability to involve diverse community non-profit groups in watershed restoration activities.

Presentation Description:

Cooperating with other non-profit groups in a community provides a continuing series of benefits even if the immediate payoff is not obvious. Explore techniques and tools that are proven to get diverse members of a community rallied in support of watershed restoration. This program will illustrate techniques on outreach presentations by Peter Donaldson, working with landowners by Jon Souder, and working with communities by Tom Gallagher. Be inspired to take advantage of your local resources that will help sustain your programs. This highly interactive presentation will include storytelling, theater, and role-playing. Discuss approaches to successfully initiate these collaborations and be thrilled with the possibilities of working across community groups and take those first steps.



Workshop Session 3
Tuesday, November 16 • 4:00 – 5:30 pm

TRACK: UNIQUE APPROACH

Title: Ecosystem Services in Oregon

Presenters:

Duncan Berry, President

Ecosystem Services LLC

Duncan Berry is President of Ecosystem Services (ESS) LLC. He is a founding partner in ESS, which develops and manages ecosystem services projects. Prior to ESS, he was also a founder of the Carbon Collaborative and the Westwind Stewardship Group.

Bobby Cochran, Executive Director

Willamette Partnership

Bobby Cochran is the Executive Director for the Willamette Partnership, a non-profit coalition of business, environmental, and other leaders working to enhance the pace, scope, and effectiveness of restoration in the Northwest. It specializes in the design and operation of emerging markets for ecosystem services. He has worked on market-based policies for environmental organizations, a water utility, and international efforts. He received a Ph.D/M.A. in Urban Studies/Conflict Resolution from Portland State University, and his Master's in Public Policy from the University of Southern California.

***Renee Davis-Born, Ecosystem Services Coordinator**

Oregon Watershed Enhancement Board

Renee Davis-Born is OWEB's Ecosystem Services Coordinator. Her primary responsibility is managing agency initiatives to assess how OWEB's investments in watershed restoration provide ecosystem services and connect to emerging ecosystem service markets. She also staffs the Ecosystem Services Markets Working Group convened by the Oregon Sustainability Board as part of implementation of Senate Bill 513. In addition to her role with OWEB, she is a faculty member with the Institute for Natural Resources at Oregon State University. Ms. Davis-Born holds a Bachelor's in Environmental Science from Allegheny College and a Master's in Wildlife Ecology from OSU.

Learning Objectives:

After attending this presentation, participants will

1. Have a broader knowledge of ecosystem services, ecosystem services markets and the types of ecosystem services credits that result from restoration projects.
2. Be able to recognize how restoration and conservation work that are underway in Oregon can be included in an ecosystem services approach.
3. Have increased awareness of the Senate Bill 513 process and Oregon's leading role in development of integrated ecosystem services markets.

Presentation Description:

This presentation is intended to help watershed restoration professionals better understand the concept of ecosystem services, how it connects to their restoration and conservation work, and the potential for ecosystem services markets to increase revenues and diversify funding streams for restoration. Our presentation will provide background information about ecosystem services and markets and describe tools available to and pilot projects undertaken by local organizations that may implement and benefit from ecosystem services projects. Stakeholder representatives will provide their perspectives about how markets create opportunities for restoration and conservation. The SB513 Ecosystem Service Markets process and resulting recommendations to expand market-based opportunities in Oregon will be discussed.



Workshop Session 3
Tuesday, November 16 • 4:00 – 5:30 pm

TRACK: LOCAL PARTNER

Title: Accomplishments Through Public and Private Partnerships on Birch Creek

Presenters:

Bill Duke, District Fish Biologist

Oregon Department of Fish and Wildlife

Bill Duke is a graduate of Oregon State University with a Bachelor's in Fisheries Management. He has worked for the Oregon Department of Fish and Wildlife for over 25 years, and has worked various positions including fish culture, fish passage and currently as the Umatilla Fish District Biologist. His involvement in fish restoration efforts on both the Umatilla and Walla Walla Rivers have been his most rewarding professional accomplishments to date.

Adriana Morales, Fish Habitat Biologist

Oregon Department of Fish and Wildlife

Adriana Morales has a Bachelor's in Marine Biology, a Master's in Biological Oceanography researching the importance of sea meadows for regional fisheries. She has a second Master's in Aquaculture from Stirling University in Scotland. She worked as resident biologist and spokesperson for USDA – NRCS - RC&D and Resource Conservation Districts conservation programs. She is currently employed at Oregon Department of Fish and Wildlife in Pendleton, as a Fish Habitat Biologist working on riparian areas, fish migration corridors and fish barriers removal projects. In her free time, she likes to discover the diverse cultures of the world, garden in her backyard, and cook gourmet cuisine for friends and family.

Hans Rudolf, Stewardship Forester

Oregon Department of Forestry

Hans Rudolf is a graduate of Oregon State University with a Bachelor's in Forest Management and a Bachelor's in Business Administration from Southern Oregon University. Prior to his current position with the Oregon Department of Forestry, he spent the previous four years as a forester and fire control officer with the Wisconsin Department of Natural Resources. He also worked as a Forester for Boise Cascade in Medford, for nine years. He has over 15 years of experience in Forest Management and Fire Control. His recent work includes administering forest thinning projects, assisting landowners with forest health issues and administering several Ecosystem Road restoration projects in Umatilla and Morrow counties.

***Greg Silbernagel, Project Manager**

Umatilla Basin Watershed Council

Greg Silbernagel is a graduate of Oregon State University with a Bachelor's in Commercial Recreation Management. He has over a decade of professional ecosystem and natural resource interpretation experience. He has worked extensively on the creation of partnerships in the Umatilla Basin through his position as Project Manager with the Umatilla Basin Watershed Council. His most recent professional accomplishment consists of a fish passage barrier removal and stream restoration project on East Birch Creek. A great way to strike up a conversation with Mr. Silbernagel is to ask about his guiding adventures in Alaska.

Loren Unruh, District Conservationist

Natural Resources Conservation Service

Loren Unruh has been the District Conservationist for the Natural Resources Conservation Service in Umatilla County since 2002. Prior to his current position, he was the District Conservationist in Morrow County for 12 years. He started his career in Washington with the Soil Conservation Service (now the Natural Resources Conservation Service). He worked in various offices in eastern Washington including Waterville, Ritzville, Davenport and Republic. Mr. Unruh's career has primarily focused on cropland agriculture, but he also has considerable experience with grazing lands and even some with timberlands. He graduated from Washington State University with a Bachelor's in Range Management back when they had a decent football team.

* Denotes lead presenter



Learning Objectives:

After attending this presentation, participants will

1. Be able to summarize unique elements of Birch Creek as well as transferable elements to implement in their own watershed projects.
2. Be able to compare and contrast the forest management practices on Birch Creek with their own watershed.
3. Have increased understanding of working with state and federal agencies.
4. Have increased awareness of the NRCS programs and how they are effective at encouraging private landowners in making changes to their landscape.
5. Develop key contacts within the Umatilla Basin for future watershed projects.

Presentation Description:

The Birch Creek drainage is a priority watershed with all elements of partnerships in private landholdings. The presentation will begin with an overview of the creek and its value to fish and wildlife as well as its role and relationship to the Umatilla Watershed as a whole. The Forest Stewardship Program within the Department of Forestry will be presented, including a discussion of how managing timberlands impacts water quality. The Agricultural Water Enhancement Program (AWEP) and Environmental Quality Incentive Program (EQIP) are two programs through the Natural Resources Conservation Service (NRCS) that provide a great opportunity for working with farmers, ranchers, or timber growers to address specific resource concerns. Learn how these two programs have been effectively used to bring about change on Birch Creek. Finally, Oregon Department of Fish and Wildlife will follow up with a presentation on ODFW projects and habitat programs. See examples of current and past ODFW fish habitat restoration projects and fish screening/passage projects.



Workshop Session 3
Tuesday, November 16 • 4:00 – 5:30 pm

TRACK: GRANT PROGRAM

Title: Using Oregon Spatial Data and Basics of GIS

Presenters:

Tara Davis, Executive Director

Calapooia Watershed Council

Tara Davis has been with the Calapooia Watershed Council since May 2006 as their Coordinator, and as of July 2009 their Executive Director with the Council's recent transition into a non-profit organization. She is a native Southern Oregonian, and grew up playing on the Rogue River. She received her degree in Environmental Science from Santa Clara University and her Master's in Water Resources Management from the University of New Mexico. Much of her research and studies occurred abroad in developing nations. She has worked with both social and environmental non-profit organizations for over 8 years.

Eric Hartstein, Coordinator

South Santiam Watershed Council

Eric Hartstein joined the South Santiam Watershed Council in 2004 and has been the Coordinator of the organization for over five years. He has a Master's in Political Science/Environmental Studies from Western Washington University, and holds a professional certificate in Geographic Information Science from Oregon State University. He lives in Lebanon with his family, and in his free time likes running, biking, and fly fishing.

***Ashley Seim, GIS and Web Site Specialist**

Oregon Watershed Enhancement Board

Ashley Seim manages OWEB's geographic information systems (GIS) and the content of the www.oregon.gov/oweb site. She provides spatial data for accountability and reporting purposes via online tools and the web site, and manages contracts that enhance the availability and usability of spatial data for the public. She has a Master's in Public Administration in Watershed Management from Portland State University and is a native Oregonian.

Learning Objectives:

After attending this presentation, participants will

1. Have knowledge of free mapping applications, free spatial data and low cost GIS software for Oregon.
2. Understand why OWEB requires maps and how to submit a good map for applications and Oregon Watershed Restoration Inventory (OWRI) reporting.
3. Have the resources and contacts to get started on their own mapping projects to assist in watershed restoration efforts.

Presentation Description:

Utilize free spatial data and online tools to assist in watershed restoration efforts. Learn how to use the Oregon Explorer Advanced Mapping Tool; discuss OWEB map requirements and basics of a good map; discover where to get free data and mapping tools; and be introduced to ArcGIS software.



Workshop Session 4
Wednesday, November 17 • 9:00 – 10:30 am

TRACK: CLEAN WATER

Title: Partnering to Reduce Ground and Surface Water Pollution from Agriculture

Presenters:

***Ellen Hammond, Regional Water Quality Specialist**

Oregon Department of Agriculture

Ellen Hammond has worked with agricultural landowners to prevent water pollution from agriculture for almost 20 years, first with the Tennessee Valley Authority and then with the Malheur SWCD as the first coordinator of the Malheur-Owyhee Watershed Council. She has been in her current position for 13 years. She is a native Oregonian and has a Master's from Oregon State University in Wildlife Biology. She enjoys interacting with landowners and other conservation partners to improve stewardship of Oregon's agricultural lands.

Karen Moon, Coordinator

Harney County Watershed Council

Karen Moon has been the coordinator for the Harney County Watershed Council since June 2006. The Council is located in southeast Oregon. The Malheur Lakes Basin covers all of Harney County and a little beyond into neighboring counties. Total acreage for the Malheur Lakes Basin is over 6.3 million acres. Population for the basin is approximately 7,000. With almost 75% of the basin publicly owned the council relies heavily on partners. Working with state, local and federal agencies helps projects to be more effective across the landscape.

Tom Straughan, Water Quality Specialist

Oregon Department of Agriculture, Natural Resources Division

Tom Straughan has been a member of the Umatilla County SWCD for over 25 years. During that time, he also served on the Oregon Soil and Water Conservation Commission and the Oregon Board of Agriculture. He has worked for the Oregon Department of Agriculture (ODA) for 13 years, as a Water Quality Specialist in the Agricultural Water Quality Program. His duties include technical assistance, compliance and enforcement and outreach in Northeastern Oregon. Mr. Straughan is a native Oregonian, graduated from Oregon State University with a Bachelor's in Animal Science and continues to operate the family farm near Pendleton raising wheat, hay and cattle.

Learning Objectives:

After attending this presentation, participants will

1. Have an increased understanding of ODA's Agricultural Water Quality Management Program and how it is implemented.
2. Be able to describe specific actions that will support efforts to reduce agriculture's contribution to water pollution.
3. Be able to identify at least one concrete action that they themselves can undertake to support agriculture's efforts to protect water quality.

Presentation Description:

This presentation is for anyone wanting to know how Oregon prevents and controls water pollution from agriculture. Presenters will answer frequently-asked questions regarding the Oregon Department of Agriculture's (ODA) Water Quality Management Program. Learn how Oregon's unique approach, which recognizes that farmers and ranchers need to participate in selecting solutions to problems on their land, works. While the Department has enforcement authority to prevent water pollution, this program relies primarily on voluntary compliance. Thus, ODA must collaborate with watershed councils, SWCDs, local organizations, citizens, and governmental agencies on outreach, technical assistance, and improvements to Agricultural Water Quality Management Area Plans to be successful. In addition to a program overview, attendees will examine compliance case studies, understand Groundwater Management Areas, and learn about existing partnerships.

* Denotes lead presenter



Workshop Session 4
Wednesday, November 17 • 9:00 – 10:30 am

TRACK: HEALTHY HABITAT

Title: You've Been Invaded! Detecting, Documenting and Responding to Invasive Species

Presenters:

***Steven Buttrick, Ph.D, Director of Conservation Science and Planning**

The Nature Conservancy in Oregon

Steve Buttrick began working for The Nature Conservancy in Oregon in June 1999. As the Director of Conservation Science and Planning, he is responsible for helping chart the Conservancy's strategies for addressing the threats to Oregon's biological diversity at site and multi-site scales. Mr. Buttrick is The Nature Conservancy in Oregon's Science lead for invasive species and sits on Oregon's Invasive Species Council.

Gail Perrotti, Coordinator

Seven Basins Watershed Council

Gail Perrotti is the coordinator for the Seven Basins Watershed Council in Southwest Oregon where she leads the Seven Basins EDRR team. She has been a key partner in creating the Southwest Oregon Early Detection Network and the Rogue Basin and Garlic Mustard EDRR program.

Learning Objectives:

After attending this presentation, participants will

1. Have a heightened awareness and appreciation of the value and importance of Early Detection and Rapid Response.
2. Be able to list concrete steps to take should they discover a new population of an invasive plant or animal.
3. Be motivated to play a role in helping the state address invasive species by learning more about iMapInvasives, sign up for early warning emails, or add expertise and time to efforts of local partners who are working to fight the threat of invasive species.

Presentation Description:

Invasive plants and animals are one of the greatest threats to biodiversity and watershed health. Early Detection and Rapid Response (EDRR) programs can be established to help those doing on-the-ground restoration work address a new invader before it becomes a major problem. A case study from the Rogue Basin demonstrates the importance of Early Detection and Rapid Response (EDRR) and the challenges of going from finding an invasive plant for the first time to a coordinated effort to remove it from a larger region. Moving forward without an existing grant because this is a new problem requires creative thinking, volunteers, partners, and outreach. One tool currently available for the public as well as restoration practitioners is a new online database managed by the Oregon Invasive Species Council, iMapInvasives, which documents observations of invasive species across the state and can provide early warning emails when a new priority invader is first detected within a watershed. After this presentation, take yourself and a laptop (we may have a few to share) to East Room 3 to be trained in how to view and enter invasives data directly in to iMapInvasives.



Workshop Session 4
Wednesday, November 17 • 9:00 – 10:30 am

TRACK: WORKING TOGETHER

Title: Mentoring Program Workshop

Presenter:

Tami Sasser, Executive Director

Umatilla Basin Watershed Council

Tami Sasser began working for Watershed Councils in January of 2003, and has served as the Executive Director of the Umatilla Basin watershed council for four years. She has gained extensive knowledge of the planning process through the development of subbasin plans, TMDL implementation plans, and most recently through the development of the Mid-Columbia steelhead recovery plan. Acting as an outreach hub for the Mid-Columbia steelhead recovery plan, the Umatilla Basin Watershed Council has built relationships to foster the implementation process. She brings experience of on-the-ground restoration, the regulatory permitting process, and working in partnership to meet multiple priorities in completing construction of restoration projects.

Learning Objectives:

After attending this presentation, participants will

1. Have made contact with at least one other person to use as a resource for at least one year.
2. Have an increased awareness of the expertise and experiences of conference attendees.

Presentation Description:

Connecting with others with similar work experiences can erase geographic borders. Asking questions can often be easier with someone you don't see every day. It's more interesting to learn from someone else. Our goal is for you to help us both define a mentor/mentee program that fits your needs as well as leaving the workshop knowing that you have a least one new person who can serve as a "phone a friend" for advice, guidance, or to just say hi. OWEB supports the community of watershed professionals believing that together, we'll be more resilient, creative and innovative.



Workshop Session 4
Wednesday, November 17 • 9:00 – 10:30 am

TRACK: UNIQUE APPROACH

Title: Willamette River: History and Future of Paradise

Presenters:

Paula Burgess, Willamette SIP Consultant

Oregon Watershed Enhancement Board

Over the last thirty years, Paula Burgess has worked in natural resource management from Alaska to California, for all levels of government – state, local, and federal. For six years, she was advisor to Oregon Governor John Kitzhaber, where she oversaw 15 natural resource agencies and led development of the Oregon Plan. Concerned by the lack of a nimble federal response to salmon declines, she left the federal government in 2006 and joined the Wild Salmon Center, an NGO that works around the North Pacific Rim to protect the strongest wild populations. Here she assembled West Coast leaders to focus on our strongest remaining wild salmon in North America. Last September, the full West Coast Senate delegation cosponsored legislation to support this effort. Recently, she turned her attention to creative local initiatives. She owns One Planet Consulting, a firm focused on restoring and protecting the best wild runs in the John Day and Willamette Basins.

***Stan Gregory, Professor**

Oregon State University

Stan Gregory received his Bachelor's at the University of Tennessee in 1971, working in the fish museum on fishes of Tennessee with Dave Etnier and working on Lake Michigan in the summers. He received his Master's and Ph.D degrees from Oregon State University in 1974 and 1980. He worked for the U.S. Fish and Wildlife Service in the Pacific Northwest from 1977-1981. He has been a faculty member in the Department of Fisheries and Wildlife at OSU since 1981. He has been a leader of the Stream Team at Oregon State for more than two decades. He has studied streams, rivers, and lakes in the Pacific Northwest, and has been leading studies of the Willamette River for the last 15 years. His recent research with David Hulse produced a book entitled "Willamette Basin Atlas: Trajectories of environmental and ecological change" in 2002. He has taught undergraduate and graduate courses in stream ecology, limnology, and ecological restoration at OSU for more than 25 years. His passion in recent years has been the conservation and restoration of native fish communities in the mainstem Willamette River and the floodplain and forest processes that shape them.

Steve Horning, Deerhaven Farms

Steve Horning is a fourth generation farmer and small business owner in Benton County. His family has worked and lived on the Willamette River since the early 1900s and it is where he continues to live today. He grew up in a small rural community where he quickly learned that this lifestyle requires hard work, resolve, and working well with the environment. After graduation from Monroe High School, he attended Oregon State University where he studied Agriculture Business Management. With this knowledge he went on to manage and co-own Deerhaven farms, and Merritt Holdings, which are his family businesses. It has always been his family's belief that as farmers and landowners we are the greatest stewards of the land, and what is best for our bottom line can also be good for the environment, which is a big part of how we do business today.

Pam Wiley, Manager, Willamette River Initiative

Meyer Memorial Trust

Pam is a chosen Oregonian. She has a depth of experience based on a background in agriculture land use policy and time in state government with the impossible task of managing Ken Bierly at the Department of State Lands. Since her stint in state government, she has been deeply involved in non-profit world with Sustainable Northwest, The Nature Conservancy, and has been a consultant to local governments and non-profits. She has taken strong leadership in evaluating and steering the Willamette River Initiative for the Meyer Memorial Trust.

* Denotes lead presenter



Learning Objectives:

After attending this presentation, participants will

1. Have the ability to describe environmental trajectories in the Willamette River from the mid-1800s to present.
2. Have a greater understanding of probable trajectories of environmental conditions in the Willamette River from present to 2050/2100.
3. Identify specific decisions or actions that are most likely and most effective each for individuals, their own organization/agency, and a wider group of stakeholders in the coming year to conserve or restore the Willamette River.

Presentation Description:

The presentation is for informed citizens and conservation practitioners working along the Willamette River and lower reaches of tributaries who have an interest in the wide array of topics associated with the river: cold water refugia, salmon recovery, monitoring, ecosystem services and climate change resilience. Mr. Gregory will organize a sequence of activities with presentations of historical photos and information, current understanding of the river, movie of the existing habitats and changes, discussion of the use of anchor habitats, and an interactive assessment of the trends in environmental conditions in the mainstem Willamette River and most effective actions for the future. A collaborative identification of future actions and dreams will engage all of those present.



Workshop Session 4
Wednesday, November 17 • 9:00 – 10:30 am

TRACK: LOCAL PARTNER

Title: Restoring the Walla Walla and Umatilla River's Flow and Habitat

Presenters:

Kathryn Brigham, Policy Representative

Confederated Tribes of the Umatilla Indian Reservation

Kat Brigham is a member of the Confederated Tribes of the Umatilla Indian Reservation and has worked for CTUIR since 1976 to protect the 1855 Treaty Rights. One of them has been to work on fishery issues that include restoring salmon to the Umatilla and Walla Walla rivers when there were none. She is a board member of the Walla Walla Watershed Council, Walla Walla Watershed Alliance and an alternate member to the Walla Walla Watershed Management Partnership. Her family fishes on the Columbia River and its tributaries.

Ron Brown, Chairman

Walla Walla River Irrigation District

Ron Brown grew up in Milton-Freewater, Oregon. He received a Bachelor's from Pacific Lutheran University. He is a co-owner of Earl Brown and Sons Inc., the largest apple growing and packing operation in Oregon. He is also the Co-Owner of Watermill Winery and Blue Mountain Cider Company. He is a board member of the Walla Walla River Irrigation District and a board member of the Walla Walla Basin Watershed Council. He is also a co-founder of the bi-state Walla Walla Watershed Alliance.

Gary James, Fisheries Program Manager

Confederated Tribes of the Umatilla Indian Reservation/Umatilla River

Gary James was the first fish biologist hired by the CTUIR in 1982. He has managed the CTUIR Fisheries Program for the last 28 years when the program grew from one to about 65 FTE. He oversees all aspects of the tribe's Fisheries Program including coordination with tribal policy, co-managers, funding agencies and the public in planning, implementation and monitoring of the tribe's water/fish projects throughout north east Oregon and south east Washington. Projects support a "River Vision" which describes healthy floodplain conditions necessary to protect, restore and enhance tribal First Foods for the perpetual cultural, economic, and sovereign benefit of CTUIR. Projects include instream flow restoration, fish passage, floodplain habitat enhancement, hatchery actions, lamprey and freshwater mussel research and restoration, fish harvest management, and monitoring and evaluation of all the above to determine project success. He received a Bachelor's in Fisheries from Oregon State University in 1979.

***Brian Wolcott, Coordinator**

Walla Walla Basin Watershed Council

Brian Wolcott has served as the Executive Director of the Walla Walla Basin Watershed Council since 1997. He was the first staff person for this grassroots watershed council that now has 7 full time staff, an annual project budget exceeding \$1 million, and recently received the National Watershed Management Council's 2006 Walter C. Loudermilk Award for an organization implementing an outstanding watershed restoration and education program. Mr. Wolcott has been working primarily on stream flow restoration, fish passage, fish habitat, water quality and groundwater recovery projects. Prior to his current position, he was a forestry technician for the Bureau of Land Management in Idaho, a United States Peace Corps Volunteer in Papua New Guinea, and a teacher in Atlanta, Georgia. He received an undergraduate degree from Emory University and completed additional graduate level natural resource coursework at the University of Idaho and Portland State University.



Learning Objectives:

After attending this presentation, participants will

1. Be able to describe how the Walla Walla Basin was able to meet the needs of agriculture and fish.
2. Be able to describe the work that has been done in the Walla Walla and Umatilla basins to increase stream flow, enhance the floodplain and riparian habitats.
3. Be able to find at least two practical tips and take-home messages regarding habitat restoration that can be used in their day-to-day work.

Presentation Description:

The Umatilla and Walla Walla rivers have both seen tremendous improvements to stream flows and fish passage, and resulting improvements in fish production. The panel presentations and discussions will expose participants to the possibilities, challenges, and observed and potential results inherent in watershed restoration, including unintended consequences, permitting and funding issues, social dynamics, and the tenacious abilities of aquatic species to quickly take advantage of improved habitat and passage opportunities. Topics to be covered include: stream flow restoration methods, fish passage projects, fish habitat improvements, groundwater level recovery, water management changes, future plans for significant stream flow improvement, and negotiating Tribal Treaty water right settlements. Input and dialogue from session attendees will be encouraged to bring in perspectives and experiences from other river basins working on similar challenges.



Workshop Session 4
Wednesday, November 17 • 9:00 – 10:30 am

TRACK: GRANT PROGRAM

Title: Watershed Restoration Applications of ArcGIS 9.3

Presenters:

Tara Davis, Executive Director

Calapooia Watershed Council

Tara Davis has been with the Calapooia Watershed Council since May 2006 as their Coordinator, and as of July 2009 their Executive Director with the Council's recent transition into a non-profit organization. She is a native Southern Oregonian, and grew up playing on the Rogue River. She received her degree in Environmental Science from Santa Clara University and her Master's in Water Resources Management from the University of New Mexico. Much of her research and studies occurred abroad in developing nations. She has worked with both social and environmental non-profit organizations for over 8 years.

Eric Hartstein, Coordinator

South Santiam Watershed Council

Eric Hartstein joined the South Santiam Watershed Council in 2004 and has been the Coordinator of the organization for over five years. He has a Master's in Political Science/Environmental Studies from Western Washington University, and holds a professional certificate in Geographic Information Science from Oregon State University. He lives in Lebanon with his family, and in his free time likes running, biking, and fly fishing.

***Ashley Seim, GIS and Web Site Specialist**

Oregon Watershed Enhancement Board

Ashley Seim manages OWEB's geographic information systems (GIS) and the content of the www.oregon.gov/oweb site. She provides spatial data for accountability and reporting purposes via online tools and the web site, and manages contracts that enhance the availability and usability of spatial data for the public. She has a Master's in Public Administration in Watershed Management from Portland State University and is a native Oregonian.

Learning Objectives:

After attending this presentation, participants will

1. Have a basic understanding of geographic information systems (GIS) and the knowledge to get started working with ArcGIS.
2. Have a basic understanding of practical applications of GIS for watershed restoration practitioners.
3. Have the resources to get started on their own GIS projects.

Presentation Description:

Utilize ArcGIS software to assist in watershed restoration efforts. Learn how to create data and build a map; discover basic tools and functions in ArcGIS. Learn how to conduct simple geoprocessing operations that will help participants with restoration project implementation; bring your ArcGIS questions, as troubleshooting will be an important component of this session.



Workshop Session 4
Wednesday, November 17 • 9:00 – 10:30 am

TRACK: GRANT PROGRAM

Title: Watershed Council Support Application Training

Presenter:

Courtney Shaff, Grant Program Coordinator

Oregon Watershed Enhancement Board

Courtney Shaff's primary responsibility is to manage the Watershed Council Support grant process, which occurs once a biennium and funds watershed councils around the state. She has a Bachelor's Biology and Environmental Science from Wittenberg University and a Master's in Environmental Science from OSU.

Learning Objectives:

After attending this presentation, participants will

1. Have a greater understanding of the council support application.
2. Be able to list some of the essential components of a successful application.
3. Be able to assemble data, information and elements of their council's activities to complete a strong application.

Presentation Description:

OWEB awards watershed council support grants every two years. Applications are due on January 18, 2011. Find out how the application has changed, hear what OWEB recommends for applicants, and come ready with your questions as OWEB staff walk you through the 2011-2013 application form.



Workshop Session 5

Wednesday, November 17 • 11:00 am – 12:30 pm

TRACK: CLEAN WATER

Title: Trees, Soil, Stormwater, and Parking Lots: Case Studies in Urban Stormwater Management

Presenters:

Phillip Pommier, President

Pacific Water Resources, Inc.

Phillip Pommier is a licensed engineer (civil and environmental in Oregon) and has over 30 years of professional experience. His experience is focused primarily on surface water management features including design and construction of culverts, stormwater conveyance systems, wetlands restoration, bank stabilization and dam spillway retrofits. His use of hydrologic and hydraulic models relates to providing support for designs. He is an expert in modeling of urban hydrology and conveyance systems as well as floodplain modeling.

*Brian Wegener, Riverkeeper

Tualatin Riverkeepers Board Member

Brian Wegener is currently coordinating the 5000 Acres Initiative to reduce the effective impervious area of parking lots in the Tualatin basin. The project consists of two demonstration projects where linear tree wells and structural soils are retrofitted into parking lots. Runoff reduction and tree growth will be monitored for several years. He has developed an expertise on wetland permits, agricultural water quality plans, and municipal stormwater permits. Mr. Wegener has a Bachelor's and Master's from Portland State University in Mathematics. Prior to joining Tualatin Riverkeepers' staff, he worked for 9 years in research and regulation with PacifiCorp and as a math and science teacher for 5 years.

Learning Objectives:

After attending this presentation, participants will

1. Be able to describe the hydrological impacts of impervious surfaces in an urban area as well as the limitations of traditional rain garden designs.
2. Be able to explain why the traditional engineering analysis methods and designs are failing to protect our watersheds and aquatic habitats.
3. Be able to compare and contrast innovative approaches in design and analyses for improved water quality including how low impact development itself can provide significant water quality benefits for most storm events.
4. Have increased understanding of the soil requirements of trees in paved areas.
5. Be able to discuss why a flow duration regulatory scheme is more appropriate for protecting our surface water resources.

Presentation Description:

Stormwater technology and practices are changing rapidly. EPA guidance for municipalities now recommends green, low impact development techniques for stormwater management over traditional drain and pipe techniques. Engineers, landscape architects, and municipalities need innovative runoff reduction and treatment strategies to keep up with nationwide trends and reduce the hydrological impacts on urban streams, as well as reducing pollution. This presentation will introduce professionals to some of the up and coming green techniques for urban stormwater management. Find out why peak flow regulation is failing and how LID benefits a flow duration regulatory scheme. Examine model results from two case studies performed by Pacific Water Resources, Inc. for Clackamas County's Water Environment Services, learn why site based detention facilities designed using traditional methods do not work, and why flow duration is a better regulatory scheme. Address one of the biggest deterrents to the flow duration regulatory scheme-detention pond size. Properly designed LID systems incorporated into the regulatory scheme will, by themselves, meet flow duration requirements for the most common storm events and will significantly reduce required detention volume for larger storm events. The result will be detention ponds that truly protect downstream areas from the adverse impacts of development, and can be smaller than facilities sized under a traditional regulatory scheme.



Workshop Session 5
Wednesday, November 17 • 11:00 am – 12:30 pm

TRACK: HEALTHY HABITAT

Title: Enhancing Habitat Restoration Project Planning

Presenters:

Robert Annear, Ph.D, PE, Vice-President

DHI Water and Environment

Dr. Robert Annear is principally responsible for DHI's modeling projects in the Western US. He has extensive experience with hydrodynamic and water quality modeling projects.

***Ryan Kilgren, MS, PE, Water Resources Engineer**

DHI Water and Environment

Ryan Kilgren provides water resources engineering services focused on hydrologic/hydraulic modeling. He has worked on a variety of projects throughout the Pacific Northwest.

Fred MacGregor, PE, CFM, Water Resources Engineer

ICF International

Fred MacGregor has more than 23 years primarily focusing on water resources engineering. At ICF, he is responsible for design engineering and hydrologic/hydraulic analysis in support of stream restoration projects.

John Runyon, Watershed and Restoration Team Manager

ICF International

John Runyon manages ICF's Watershed and Restoration Team, overseeing watershed assessment, planning, and restoration projects of all sizes.

Learning Objectives:

After attending this presentation, participants will

1. Be able to describe hydraulic model uses, benefits, and limitations.
2. Gain hands-on experience utilizing models for increased understanding of tools for assessing multiple-stakeholder needs and objectives.
3. Gain skills using technical and non-technical means of communication between multiple-stakeholders regarding restoration planning.

Presentation Description:

Increasingly, restoration projects are focused on enhancing habitat features within large, dynamic river channels and floodplain systems. These projects entail a high degree of complexity and require assessing multiple issues, including specific fish species habitat benefits, channel migration, bank erosion, and flooding. In addition, the participating landowners and other stakeholders have diverse and often competing goals. This presentation will provide participants with an understanding of methods and approaches for evaluating multiple restoration decisions and alternatives for large river and adjacent floodplain systems. Participants will gain a greater understanding of the benefits and limitations of using hydraulic models to effectively evaluate restoration scenarios and integrate the technical aspects of this evaluation into the restoration project planning and design process. The workshop will provide participants with the opportunity to learn about and use different data for communications of restoration planning to stakeholders. We will conclude the session by leading the participants in a discussion on how to integrate the modeling process into the restoration planning and stakeholder involvement processes; and, we anticipate that participants will suggest both technical and non-technical ways to integrate modeling into these processes.



Workshop Session 5
Wednesday, November 17 • 11:00 am – 12:30 pm

TRACK: WORKING TOGETHER

Title: Wolf Creek Monitoring: A Partnership Story

Presenters:

***Dan Dammann, Hydrologist**

Bureau of Land Management, Roseburg District

Dan Dammann received a Bachelors in Forest Hydrology from the University of Minnesota. He currently works as a hydrologist for the Roseburg District Bureau of Land Management. He has been designing and implementing in-stream restoration projects for the last nine years.

Sandy Lyon, Monitoring Coordinator

Partnership for the Umpqua Rivers

Sandy Lyon has a degree in biology from the University of California, San Diego. After a career in laboratory research she has taken to the field heading up the Partnership for the Umpqua Rivers' water quality monitoring program. She been with the watershed council for seven years.

Jeff McEnroe, Fisheries Biologist

Bureau of Land Management, Swiftwater Resource Area

Jeff McEnroe received a Bachelor's and Master's in Fisheries Science from Oregon State University. He currently works as a fish biologist for the Roseburg Bureau of Land Management. He has been designing and implementing large-scale in-stream restoration projects for the last four years.

Learning Objectives:

Learning Objectives:

After attending this presentation, participants will

1. Have an increased understanding what a BACI study is - and why it is critical for effectiveness monitoring.
2. Have increased knowledge of how to incorporate more intensive effectiveness monitoring into your restoration project.
3. Have an example of how to combine data collection efforts to maximize monitoring results.

Presentation Description:

The Wolf Creek Restoration and Monitoring project won the 2010 AFS Western Division Riparian Challenge Award. This was a large-scale restoration project that treated over 10 miles of stream with 900 logs and 3700 boulders over a two year period. This presentation, designed for those involved in watershed (in-stream) restoration activates and monitoring, describes the monitoring effort associated with this project and how working with multiple partners has resulted in a robust, multifaceted monitoring approach, which will examine the effectiveness of improving aquatic habitat through in-stream restoration techniques. We know these techniques work, but how do you measure success? How do you quantify the improvements we make through these efforts? Wolf Creek will attempt to provide some answers to these questions.

* Denotes lead presenter



Workshop Session 5
Wednesday, November 17 • 11:00 am – 12:30 pm

TRACK: UNIQUE APPROACH

Title: Restoration in the Klamath Basin

Presenters:

Damion Ciotti, Ecologist

US Fish and Wildlife Service, Partners for Fish and Wildlife

Damion Ciotti is a Soil Scientist and Ecologist for the US Fish and Wildlife Service Klamath Falls Office. He works for the Partners for Fish and Wildlife Program to implement habitat restoration projects on private lands. He focuses on native habitats including lake fringe wetland, riparian, wet meadow, and floodplain.

***Heather Hendrixson, Director, Williamson River Delta Preserve**

The Nature Conservancy

Heather Hendrixson is the Director of The Nature Conservancy's Williamson River Delta Preserve in the Klamath Basin. She started with the conservancy in 2006 as a fisheries biologist and became director in 2008. She oversees monitoring, restoration, and farming activities on the 7,500 acre preserve.

Michael Hughes, Geomorphologist

The Klamath Tribes

Michael Hughes is a Fluvial Geomorphologist at the Klamath Tribes Research Station. He began working in the Upper Klamath Basin after earning a doctoral degree in Environmental Science, Studies, and Policy at the University of Oregon in 2008. His work is currently focused on the hydrogeomorphology of riverine sucker spawning habitat, linkages between river processes and channel-floodplain vegetation, monitoring and evaluation of stream restoration projects, and riparian corridor planning.

Nathan Jackson, Interim Executive Director

Klamath Watershed Partnership

Nathan Jackson is the Interim Executive Director of the Klamath Watershed Partnership. He manages the activities of the Coordinating Team for the National Fish and Wildlife Foundation Keystone Initiative to restore key fisheries in the Upper Klamath Basin. He is active in the agricultural community, with a background in personnel and fiscal management and communication.

Shannon Peterson, Executive Director

Klamath Basin Rangeland Trust

Shannon Peterson is the Executive Director of the Klamath Basin Rangeland Trust. She started with the Trust in 2002 as a research associate and has served as Executive Director since 2005. KBRT works with private landowners in the Upper Klamath Lake watershed to address water quantity and quality issues through land and water management, restoration and conservation projects, and research and monitoring.

Mark Stern, Director, Klamath Basin Conservation Area

The Nature Conservancy

Mark Stern is the Director of the Klamath Conservation Area for The Nature Conservancy in Oregon. He works primarily on large scale wetland and riverine restoration efforts at the Williamson River Delta Preserve and the Sycan Marsh Preserve as well as on forest restoration in the Ashland watershed. He leads the efforts to integrate the Conservancy's mission with local stakeholders providing a model for Community based Conservation and is a board member for the Klamath Watershed Partnership.



Learning Objectives:

After attending this presentation, participants will

1. Be able to describe the two primary strategies of the National Fish and Wildlife Foundation (NFWF) Upper Klamath Basin business plan.
2. Gain at least two concrete "take-home" tips for overcoming challenges of diverse partnerships.
3. Will have increased understanding of the potential for multiple land-use objectives (stream rehabilitation and cattle ranching).
4. Be able to identify three elements of success regarding the drastic and innovative restoration techniques employed to restore wetlands that can be transferred to other restoration projects around the state.
5. Have an increased appreciation for the role private organizations play in implementing Farm Bill programs to enable water saving measures.

Presentation Description:

The Upper Klamath Basin has a rich heritage of unique and abundant native fish, among which are Lost River sucker, shortnose sucker, and redband rainbow trout. Populations of these species are in decline – and a number of partners are addressing the significant threats to these fish which include: lack of water and degraded water quality, barriers and entrainment, and predation and competition from non-native species. In addition, all three of these species migrate from Upper Klamath Lake to spawn in its tributaries including Wood, Williamson and Sprague rivers. Speakers will present the various aspects of their restoration work in the Upper Klamath Basin and how this work fits within the context of the Klamath Business Plan and logic model developed by partners and NFWF, noting the challenge of balancing ecological priorities with the interests of private landowners. Speakers will discuss design, implementation, monitoring, and how to be successful working with private landowners in a "water-stressed" basin.



Workshop Session 5
Wednesday, November 17 • 11:00 am – 12:30 pm

TRACK: LOCAL PARTNER

Title: Education and Outreach East of the Cascades

Presenters:

Bob Chicken, Education and Outreach Coordinator

Walla Walla Basin Watershed Council

Bob Chicken has a Bachelor's in Forestry from the University of Idaho. He has been designing and implementing local environmental education activities and events for over 10 years. He has over 30 years experience in environmental education, including over 25 years working with youth in scouts and 4-H. He also has over 35 years experience working as a professional forester.

***Heidi Hartman, Natural Resource Specialist**

Umatilla County Soil and Water Conservation District

Heidi Hartman has been in natural resource management for over 13 years. She grew up along the Mississippi River and has a Bachelor's from Southern Illinois University in Plant Biology. She worked for Living Lands and Waters with hometown friend and previous OWEB conference key note speaker Chad Pregracke travelling Midwest rivers organizing and participating in river clean-ups. She has also worked as a wetland consultant in the Chicago area and for the US Forest Service as a Plants Biological Science Technician in the northwoods of Minnesota before moving to Oregon in 2006 where she was employed with The Nature Conservancy as a Weed Management Area Coordinator and a Land Steward for the Boardman Grasslands. Ms. Hartman has been with the Umatilla County SWCD for four years where her focus is developing sustainable agricultural programs, watershed restoration, and public education and outreach.

Wenix Red Elk, Education and Outreach Coordinator

Confederated Tribes of the Umatilla Indian Reservation

Wenix Red Elk has an Associates and Bachelor's in Museum Studies/Cultural Resources Management from the Institute of American Indian Arts in Santa Fe, New Mexico and a Master's in Organizational Management from the University of Phoenix. Currently she is the Education Outreach Coordinator for the Confederated Tribes of the Umatilla Indian Reservation Department of Natural Resources (DNR) where she coordinates and implements First Food related education activities and events for DNR's Water Resources, Fish and Wildlife, Forestry/Ag/Range, Cultural Resources Rights Protection, and the Environmental Rights Protection Programs. She has over 10 years experience in natural resources. As a youth she worked for the Earth Conservation Corps, Salmon Corps branch restoring and revitalizing plant and salmon habitats, watersheds and native vegetation to its natural habitat to stabilize fish populations and reintroduction of wild salmon stock back into watershed areas.

Teresa Walchli, Coordinator, Clean Water Neighborhood Program

Umatilla County Soil and Water Conservation District

Teresa Walchli manages the Hermiston satellite office and has been the Clean Water Neighborhood Coordinator for Umatilla County SWCD since 2008. She is responsible for the water quality/quantity education/outreach program in the Lower Umatilla Basin Groundwater Management Area (LUBGWMA). She has worked for and been associated with John Walchli Farms for over 20 years. In 1998 she and her husband began their first field of organic produce. Over the years they have learned many valuable lessons and continue to be a distributor of certified organic produce throughout the state.



Learning Objectives:

After attending this presentation, participants will

1. Have an enhanced awareness of why healthy watersheds are important to local communities, agriculture producers and school-aged children.
2. Have gained at least two innovative methods for extending watershed education into their own community and schools.
3. Have improved knowledge of the kinds of activities that are effective in engaging citizens in watershed restoration efforts in Eastern Oregon.
4. Be able to describe the similarities and differences in the barriers to learning in different communities and the solutions of how to overcome such barriers.

Presentation Description:

A panel of four presenters will first each give a short presentation on their education and outreach activities: Bob Chicken will talk about his environmental education program STELLAR; Heidi Hartman will talk about her involvement in the local Watershed Field Days, a program targeting fifth graders from Umatilla and Morrow Counties; Teresa Walchli will present on the education and outreach programs she has developed to help educate both adults and children about issues relating to the Lower Umatilla Basin groundwater problems. Wenix Red Elk will talk about the outreach and education efforts of the Umatilla Indian Reservation that support its First Foods Mission Statement. She also will touch on the programs she organizes such as the Salmon Expedition, Salmon Walk and the Return to the River. After these presentations, there will be a facilitated roundtable discussion touching on the following topics: sustainability of programs, funding sources, program assessments, accessing students/teachers, getting kids outdoors, local collaboration and partnerships, volunteers, transportation, time constraints, competing outreach programs, appropriate teaching level, teaching basic math, science and geography, vocabulary, and cultural and language challenges.



Workshop Session 5
Wednesday, November 17 • 11:00 am – 12:30 pm

TRACK: GRANT PROGRAM

Title: Grant Program Open Questions

Presenters:

Randy Emch, Grant Payment Coordinator

Oregon Watershed Enhancement Board

Randy Emch is the Grant Payment Coordinator and Contract Officer: He is responsible for application budget reviews, audits on grant payments, grant and budget amendments and final reporting requirements. He solicits, prepares and administers all of OWEB's Personal Service Contracts and holds OWEB fiscal training sessions around the state. He has degrees in Accounting and Business Management and is a native Oregonian.

Ashley Seim, GIS and Web Site Specialist

Oregon Watershed Enhancement Board

Ashley Seim manages OWEB's geographic information systems (GIS) and the content of the www.oregon.gov/oweb site. She provides spatial data for accountability and reporting purposes via online tools and the web site, and manages contracts that enhance the availability and usability of spatial data for the public. She has a Master's in Public Administration in Watershed Management from Portland State University and is a native Oregonian.

***Courtney Shaff, Grant Program Coordinator**

Oregon Watershed Enhancement Board

Courtney Shaff's primary responsibility is to manage the Watershed Council Support grant process, which occurs once a biennium and funds watershed councils around the state. She has a Bachelor's in Biology and Environmental Science from Wittenberg University and a Master's in Environmental Science from OSU.

Learning Objective:

After attending this presentation, participants will

1. Be able to get answers to questions or issues addressed.

Presentation Description:

Do you have more questions about the council support application? Is there a nagging OWEB grant issue that you need help to resolve? OWEB grant program staff will be available to visit with you. If we can't answer your question at the session, we will follow up with you.