

2019 AWRA-WA
Annual State Conference



Water Resources Planning and Implementation: *Challenges, Complexity and Uncertainty*



October 1, 2019
Mountaineers Seattle Program Center

The American Water Resources Association

Washington Section

is a scientific and educational 401(c)(3) non-profit organization established to encourage and foster interdisciplinary communication among persons of diverse backgrounds working on any aspect of water resources disciplines. Individuals interested in water resources are encouraged to participate in the activities of the Washington Section.

Opinions and views expressed in this conference are those of the speakers, not AWRA-WA.

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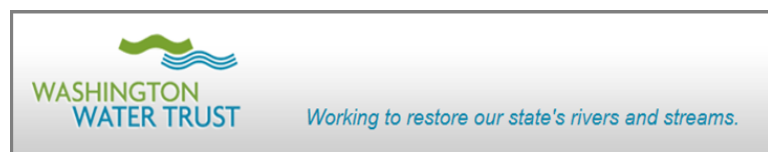
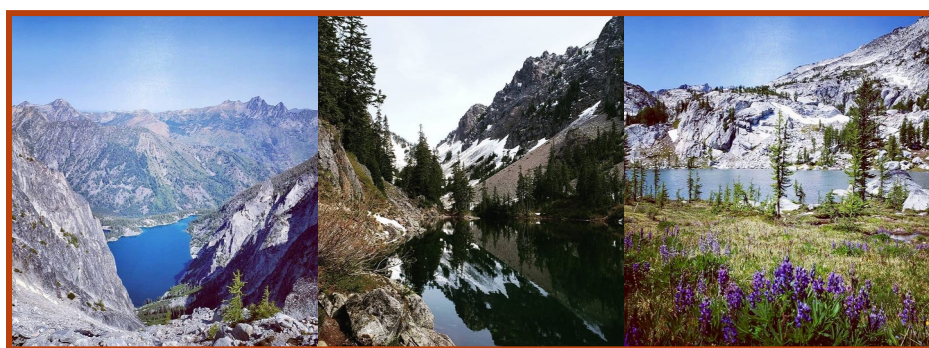


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Photos from left to right:

Colchuck Lake in the Enchantments

Upper Melakwa Lake in the Alpine Lakes Wilderness

Lake Perfection in the Enchantments

Photos by Izette Swan

2019 CONFERENCE COMMITTEE

Conference Co-Chairs

Thomas FitzHugh, Stantec Consulting
Jenna Mandell-Rice, Van Ness Feldman

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Oregon State University:	Elisa Dawson
University of Washington:	Eric Zimdars
	Rose McLoone
	Sean Wu
Central Washington:	Joe Petralia
	Stephen Bartlett
	Silas Sleeper



CONFERENCE WELCOME



Yakima River, Photo by Tom Ring

Water Resources Planning and Implementation: Challenges, Complexity, and Uncertainty

Dear Colleagues,

The Washington Section of the American Water Resources Association (AWRA-WA) welcomes you to the 2019 State Conference. This year's theme is water resources planning and implementation in Washington in an uncertain future. The goal of the day is to focus on past successes and failures, and find lessons for current and future planners and implementers. The conference speakers will address a variety of plan types and implementation frameworks such as watershed planning, salmon recovery planning, and water rights processes. As all planning processes face similar challenges with uncertainty and risk, speakers will also address how evolving uncertainty may be included in water plans.

Watershed planning has a long history in Washington, but while some plans have established management goals and principles, others have been largely ignored. Some failed completely to garner the necessary support to be adopted and implemented. The intent of today's program is to reflect on the history of water plans and use the understanding gained to innovate for future planning processes. Future planning will need to address the complexity of multiple political, ecological, climatic, hydrologic and legal forces while newly focusing on water quantity and streamflow restoration. It is acknowledged that challenges will remain basin-specific and no one approach will meet all needs statewide. The conference is intended to help water managers gain an improved understanding of alternative strategies for water management in 2020 and into the mid-century and beyond.

CONFERENCE WELCOME

Today's conference is slated with exceptional presenters to help us put the past into context, understand the present more clearly, and provide insights into the future of water resource planning and management. The conference committee has been meeting weekly since January to pull this event together and we are excited about the quality of the program and diverse viewpoints represented. We wish to personally thank the conference committee members. AWRA-WA is an all-volunteer group who has spent a significant amount of time to create the themes, find highly talented speakers, and execute the logistics of an event of this size. There are also several student volunteers who will be helping throughout the conference. We thank them for their help too.

Our sponsors also play a critical role in this event. The AWRA-WA thanks them for keeping the prices of this event lower and therefore making it easier for more people to attend. Their generosity also funds two student scholarships, as well as paying for students to attend the conference at a discounted price and dinner events throughout the year for free.

The AWRA-WA is a non-profit, volunteer-run organization with a clear vision – to provide forums for advancing water resources management in Washington and the Pacific Northwest region; serve the public interest by supporting education and informational exchanges; involve professionals and students from all disciplines and interested members of the public in activities that promote broad discussion and understanding of water resources issues; and recognize excellence in water resource education, management, and research. If you have any suggestions for us to further these causes, then please write your comments on the survey or talk to members of the Board or committee.

Finally we want to thank each and every one of you for attending. We hope you enjoy the excellent presentations, network with your peers, meet some new connections, and join us for drinks and hors d'oeuvres at the reception afterwards. We look forward to seeing you at future AWRA-WA events.

Thomas FitzHugh

Jenna Mandell-Rice

Conference Co-chairs



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Jessica Kuchan, Mentor Law Group
- Student Representatives:** Silas Sleeper, Central Washington University
Eric Zimdars, University of Washington



AGENDA

7:00—8:00	Registration and Networking
8:00—8:10	Welcome by Conference Co-Chairs
	<i>Thomas FitzHugh, Stantec Consulting</i> <i>Jenna Mandell-Rice, Van Ness Feldman</i>
8:10—9:00	Keynote Address
	<u>Speaker</u> Will Stelle, Washington Water Trust Trading Ideas: How Can We Connect the H2O Dots for Better Outcomes?
9:00—10:30	Session 1: Introductory Session — Lessons learned from Watershed Planning
Abstracts on pages 10-11	<i>Moderator: Steve Nelson, RH2 Engineering</i> <u>Speakers</u> Tom Ring, Yakama Nation John Kounts, Washington PUD Sharon Haensley, Squaxin Island Tribe Mike Kaputa, Chelan County
10:30—10:50	Networking Break
10:50—12:05	Session 2: Hirst and Beyond
Abstracts on pages 11-12	<i>Moderator: Jon Turk, Aspect Consulting</i> <u>Speakers</u> Lisa Dally Wilson, Dally Environmental David Troutt, Nisqually Indian Tribe Bennett Weinstein, Department of Ecology Andy Hover, Okanogan County
12:05—12:20	State of the AWRA-WA Section and Outstanding Service Award
	<i>AWRA-WA Board President: Rabia Ahmed</i>
12:20—1:05	Lunch

AGENDA

1:05—2:35	Session 3: Uncertainty in Planning
Abstracts on pages 14-15	<p><i>Moderator:</i> Kensey Daly, Jacobs Engineering</p> <p><u>Speakers</u></p> <p>Abhishek Singh, Intera</p> <p>Gillaume Mauger, University of Washington</p> <p>Carrie Sessions, Department of Ecology</p> <p>Joe Mentor, Mentor Law Group</p>
2:35—2:55	Networking Break
2:55—3:40	Session 4: Bookends of the Planning Process
Abstracts on page 15	<p><i>Moderator:</i> Stacy Vynne McKinstry, Department of Ecology</p> <p><u>Speakers</u></p> <p>Urban Eberhardt, Kittitas Reclamation District</p> <p>Abby Hook, King County</p>
3:40—4:00	Networking Break
4:00—5:00	Session 5: Panel Discussion
5:00 - 7:00	<p><i>Moderator:</i> Adam Gravley, Van Ness Feldman</p> <p><u>Panel Speakers</u></p> <p>Tom Ring, Yakama Nation</p> <p>Will Stelle, Washington Water Trust</p> <p>Andy Hover, Okanogan County</p> <p>Steven Malloch, Western Water Futures LLC</p>
5:00 - 7:00	Closing Remarks and Reception

KEYNOTE ADDRESS

Trading Ideas: How Can We Connect the H2O Dots for Better Outcomes?



William Stelle
Washington Water Trust

Water resource management is deeply balkanized across a variety of well-established silos: water rights and the prior appropriations doctrine; wastewater, stormwater and water quality management; federal water project authorizations and FERC hydro licensing; endangered fisheries conservation; groundwater management (such as it is); Tribal Treaty rights and obligations; municipal and agricultural water utilities; water-related land use management; etc. These silos have deep historical roots, and are characterized by mature regulatory, legal, and institutional machinery and cultures. These regimes are increasingly colliding in multiple ways as human populations grow, as demands on water grow, as aquatic productivity declines, and as patterns of precipitation change. One major challenge for the water and fishery stewards of the 21st century is to chart and implement a path from balkanized management to integrated water stewardship that will effectively meet the needs of people and the environment.

Mr. Stelle will elaborate on these observations from his fisheries/endangered species experiences and invite attendees to share ideas (big and small) on how to reengineer our water-related regulatory machinery to advance imple-

Will Stelle's Biography

Will Stelle has been involved with environment and natural resource issues throughout his career after completing several law degrees in marine resource law at the University of Washington, the University of Maine and Dalhousie University in Halifax, Nova Scotia. He spent a decade plus in Washington D.C. in a variety of roles. Legislatively, he served as staff counsel for the Senate Indian Affairs Committee, and as chief counsel for the House Merchant Marine and Fisheries Committee, covering federal civilian ocean and coastal affairs, fish and wildlife and selected environmental laws and Coast Guard/maritime matters.

He moved to the Executive branch at the beginning of the Clinton administration to work as a special assistant to Interior Secretary Bruce Babbitt to craft the Northwest Forest Plan, which ushered in a new paradigm for managing 17 million acres of federal forestlands in the Pacific Northwest and northern California. Will then shifted to the White House to referee interdepartmental natural resource issues involving the Departments of Interior, Agriculture, and Commerce (NOAA), the Environmental Protection Agency and the Office of Management and Budget.

In response to the early stages of NOAA's listings of salmon runs under the ESA, Will moved to the Puget Sound region in the mid 1990s and served two tours of duty as regional administrator of NOAA Fisheries under the Clinton and Obama administrations, first for the Northwest Region and then for a reconfigured West Coast region, including California. In this role, he was the chief architect of the federal salmon recovery program under the ESA, and deeply immersed in shaping the four salmon program "H's" of habitat, hatcheries, harvest and hydropower reforms spanning the states of Washington, Oregon, Idaho and California. Will led federal negotiations on California water operations affecting the major salmon watersheds throughout years of difficult drought. He also co-chaired the federal Puget Sound Caucus and was deeply immersed in Columbia Basin hydropower operations and northwest Tribal affairs.

Will is currently a senior advisor to the Washington Water Trust and is on its board as well as the boards of the Washington Environmental Council and the Whidbey Camano Land Trust. He spends his spare time with his wife Claudia working their old homestead on the north shore of Penn Cove, Whidbey Island. They have four big boys.

PROGRAM AND ABSTRACTS

8:00 - 8:10

Conference Welcome

Conference Co-Chairs:

Thomas FitzHugh, Jenna Mandell-Rice

8:10 - 9:00

Keynote Address

Speaker: Will Stelle

Trading Ideas: How can We Connect the H2O Dots for Better Outcomes?

9:00 - 10:30

Session 1: Lessons learned from Watershed Planning

Moderator: Steve Nelson

Tom Ring

The Venn Diagram of Planning in Washington State

Abstract:

Successful planning requires the intersection of interested parties. State, federal, and local planning efforts generally derive from different legal requirements and involve participants with different mandates. An examination of past and current efforts at planning for water and related resources reveals flaws in governance structure that have hampered achieving consensus. Other processes have been designed to ensure inclusiveness. This talk is intended to lead into discussion of successes and failures of past planning efforts and how to plan into the future.



Teanaway River

PROGRAM AND ABSTRACTS

SESSION 1 CONTINUED

John Kounts

Watershed Planning from a Water Utility Perspective

Abstract:

Water utilities are long-time advocates of multi-party watershed planning to help them attain long-term predictability and adequacy of their water supply, and to achieve other water resource protection and management goals. This commitment goes back to support for past initiatives such as the 1990 Chelan Agreement and the Watershed Planning Act of 1997-98 in RCW 90.82. Lessons for utilities from these past efforts are that patience, persistence, inclusion, and support from the legal system are necessary ingredients for a durable and useful outcome from watershed planning.

In implementation of ESSB 6091, the Legislature's 2018 watershed planning initiative, the primary goal is to secure water and mitigation for permit-exempt wells in targeted rural areas, which isn't a main concern of public water utilities, though some utilities are concerned about how water secured for exempt wells might affect future water availability to meet the needs of water utility customers. Less publicized parts of ESSB 6091 are important to water utilities, specifically Sections 301 through 303, which focus on how utilities can acceptably mitigate the impact of future water rights, or changes in existing rights, in the wake of the state Supreme Court's 2015 *Foster v. Department of Ecology* ruling that sharply restricts mitigation options. These *Foster*-related sections of 6091 are still a work in progress and their policy value to water utilities remains to be seen.

Sharon Haensly

Tribal Perspective on Watershed Planning

Abstract:

The Squaxin Island Tribe has Treaty-reserved fishing rights that encompass fresh and salt waters throughout Southern Puget Sound. The Tribe also holds federally reserved water rights to instream flows for anadromous fisheries, rights that have priority in time over those created under state law. In order to help protect and restore instream flows, the Tribe has elected to fully participate in Ecology's watershed restoration planning process that is proceeding under RCW Ch. 90.94. This means that the Tribe is fully invested in watershed planning efforts for WRIAs 11, 12, 13, 14 and 15. It has also taken positions on Ecology's guidance documents and funding rule. This presentation will examine the nature of the Tribe's rights, its concerns about the watershed restoration process, some positions that the Tribe has taken to date, and current and potential future benefits from the process.

Mike Kaputa

Wenatchee Watershed Planning: Retrospective and Current Efforts

Abstract:

The Wenatchee Watershed Planning Unit was one of the first planning units to form under RCW 90.82 (commonly known as the "Watershed Planning Act").

Ambitiously, the broad-based and well-attended planning unit effort addressed all elements of watershed planning and successfully saw through adoption of a new Wenatchee instream flow rule. The effort

PROGRAM AND ABSTRACTS

SESSION 1 CONTINUED

coincided with new ESA listings of spring chinook and steelhead. The final watershed plan served as the backbone for the regional salmon recovery plan. Twenty years later, the successes and failures of watershed planning can be understood. Current efforts, including coordinated cost reimbursement, the Icicle Work Group and salmon recovery implementation, trace back to the initial watershed planning effort and present similar challenges and opportunities.

10:30 - 10:50

Networking Break

10:50 - 12:05

Session 2: Hirst and Beyond

Moderator: Jon Turk

Lisa Dally Wilson and David Troutt

The Nisqually Watershed Hirst Response: Beyond Planning

Abstract:

Under the leadership of the Nisqually Indian Tribe, the Nisqually Watershed (WRIA 11) Planning Unit was able to successfully address the requirements of RCW 90.94.020 over the course of eight months and formally approve the Nisqually Watershed Plan Addendum by full consensus in January of 2019. The Washington Department of Ecology formally adopted the addendum on February 1, 2019; thereby completing the 'Hirst Planning Process'.

Thus far, WRIA 11 is the only watershed in the state to collaboratively complete Hirst planning. But once a plan is completed, what adjustments, adaptive management, offset tracking, and ongoing coordination and monitoring of resources are necessary to actually implement the Hirst response? The transition from planning to implementation of projects to benefit streamflows and provide net ecological benefit can be challenging – and has proven to be so in past watershed planning processes. This presentation will outline the WRIA 11 Planning Unit's work to complete the Watershed Plan Addendum and address next steps in implementing the plan.

Bennett Weinstein

Update on Ecology's Implementation of RCW 90.94

Abstract:

In January 2018, the Legislature passed the Streamflow Restoration Law (Chapter 90.94 RCW) that helps restore stream flows to levels necessary to support healthy and sustainable salmon populations while providing water for rural homes.

PROGRAM AND ABSTRACTS

SESSION 2 CONTINUED

The law was passed in response to the 2016 Washington State Supreme Court's Hirst decision limiting a landowner's ability to get a building permit for a new home when the proposed source of water is a permit-exempt well. The law clarifies how counties issue building permits for homes that use permit-exempt wells and also directs local planning groups to develop watershed plans that offset impacts from new domestic permit-exempt wells and achieve a net ecological benefit.

Key elements of the implementation of 90.94 involve watershed planning groups developing watershed plans submitted to Ecology for adoption or rulemaking and statewide competitive grants for local watershed plans and projects. In 2019, Ecology selected 15 projects from a statewide pool of applicants and awarded \$20 million to them. The state grants do not fund entire projects and must be complemented with other funding. The next round of grant funding begins with Ecology's publication of grant guidance in October.

Andy Hover

Land Use Planning in Rural Counties in a Post "Hirst Decision" World

Abstract:

As rural counties struggle to make sense of land use planning as it relates to legally available water it has become increasingly difficult to interpret the myriad of Washington codes, court cases and instream flow rules that seemingly can be unrelated yet must follow. In this presentation, I will delve into codes and rules that can be hard to interpret and I will look at who ultimately is responsible for legally available water.

12:05 - 12:20

State of the AWRA Washington Section and Outstanding Service Award

STATE OF THE AWRA WASHINGTON SECTION

Presented by: Board President Rabia Ahmed

2019 OUTSTANDING SERVICE AWARD

Presented by: Stanley Miller

Each year since 2001, AWRA-WA has recognized a member of the state's water resource community for their outstanding contribution to Washington's water resources. The state section developed this award program to recognize an individual who has shown significant and sustained commitment to the protection and wise management of the state or region's water resources. The Awards Committee accepts nominations for the award from any AWRA-WA member.

The first recipient was Jim Esget of the Bureau of Reclamation for his work in developing agreements among fisheries interests, hydropower producers and irrigators that provide water for all these uses in the Yakima River Basin. Since this first award, over a dozen water resources professionals and several organizations have been recognized. In addition to a commemorative plaque for the recipient, AWRA-WA provides a donation of \$500 to a non-profit group selected by the recipient to promote work on water resources locally, nationally, or around the world.

PROGRAM AND ABSTRACTS

2019 OUTSTANDING SERVICE AWARD



Tom Ring

The Outstanding Water Resources Professional award for 2019 will be presented to Tom Ring at this year's state conference. Tom recently announced his upcoming retirement from a long and storied career as a hydrologist for the Water Resources Program of the Confederated Tribes and Bands of the Yakama Nation. In that capacity, Tom has worked on a variety of projects involving groundwater and surface water quantity and quality, water rights, irrigation and fisheries issues and planning for future water needs. He spent decades working on the Yakima River adjudication and insuring that water flow and quality was adequate to support salmonid fishery in the Yakima River system. Prior to joining the tribal program in 1990, Tom worked in the Water Resources program at the Washington Department

of Ecology. Tom earned a Bachelors degree in Geology at Central Washington State University and a Masters Degree, also in Geology, from Northern Arizona University.

In addition to his work with the Yakama Nation, Tom has contributed to the Water Resources field in other ways as well. He has taught geology and hydrogeology at CWU. He is on the board of the Washington Water Trust and has served on the Board of the Washington Section of the AWRA for many years. While on the AWRA board Tom was instrumental in getting the CWU student section started. With his connections in the larger field of water resources in the west, Tom has been a key to bringing in a number of top – notch speakers for the Washington Section's annual conferences. He has also served as our unofficial photographer, providing images for many of our publications, especially those from our conferences.

Tom is a licensed geologist and hydrogeologist in Washington State. When not working, he enjoys hiking, climbing, and skiing in the mountains of the west.

PROGRAM AND ABSTRACTS

12:20 - 1:05

Lunch & Networking

1:05 - 2:35

Session 3: Uncertainty in Planning

Moderator: Kensey Daly

Dr. Abhishek Singh

Incorporating Uncertainty into Integrated Regional Water Planning Basin

Abstract:

The challenge with water planning is that several of the key drivers (future supplies, demands, infrastructure capacities) are inherently uncertain. This talk will present a framework to address these uncertainties within a stakeholder-driven planning process. In 2010, the state of Texas produced a blueprint for how water resources planning could accommodate these uncertainties. This talk will review that process and evaluate how and whether the framework was used in Texas. In addition, two other case-studies —one in Albuquerque, NM and another in Chino, CA—will be presented that show how key uncertainties are identified, quantified, communicated and incorporated into future planning scenarios. A key lesson learned is the importance of early and regular stakeholder outreach to communicate uncertainties and translate these into actionable management decisions requiring stakeholder input.

Gillaume Mauger

Flooding, Stormwater and Sea Level Rise: Putting Climate Projections to Use

Abstract:

Climate models show an increase in the intensity of heavy rain events. Coupled with projected changes in snowpack and sea level, this could have significant implications for flood risk. Yet engineers and planners have very few tools at their disposal with which to take action. This presentation will summarize recent efforts to bridge the gap between the science of climate change and the practice of preparing for its effects:

Integrated Floodplain Management. Working with Pierce County, we have created a four-part set of guidelines for evaluating climate change impacts, assessed the current state of knowledge, and begun identifying priorities for new studies.

Heavy Precipitation and Stormwater. We recently co-developed a new set of regional climate model projections that are tailored for use in wastewater and stormwater planning.

Project results can be viewed here: <https://cig.uw.edu/our-work/applied-research/heavy-precip-and-stormwater/>

Culvert Design Tool. We have developed a prototype tool for climate-resilient culvert design, and are currently working with WDFW to update the streamflow projections that are used as input to the tool. The prototype tool can be viewed here: <http://www.skagitclimatescience.org/culvert-design-tool/>

PROGRAM AND ABSTRACTS

SESSION 3 CONTINUED

Probabilistic Sea Level Rise Projections. The Climate Impacts Group and Washington Sea Grant recently released an updated sea level rise assessment for Washington State, along with guidelines to help users put the new projections to use: <http://www.wacoastalnetwork.com/wcrp-documents.html>

Future Flood Maps for Snohomish County. We are working with the Snohomish Conservation District to map future flood risk due to the combined effects of sea level rise and changing peak river flows. Results will be integrated in the Nature Conservancy's Coastal Resilience web tool:

The presentation will briefly highlight each of these efforts while also providing some key concepts that help frame the issue for planners and engineers seeking to plan for the impacts of climate change. <http://maps.coastalresilience.org/washington/>

Carrie Sessions

Drought Planning under Uncertainty

Abstract:

Though we have several useful tools for forecasting drought conditions, our ability to make an accurate and timely prediction of drought is limited. As such, we are often faced with evaluating the tradeoffs between declaring a drought early – when water supply conditions are more uncertain but when emergency efforts can be most impactful – versus waiting to declare a drought until there is greater certainty in conditions but when emergency efforts may be insufficient. In this presentation, I'll discuss the challenges and tradeoffs of declaring and responding to droughts in Washington, as well as some of the tools and frameworks water managers use to aid in the decision-making and planning processes. Lastly, I'll discuss the role that preparedness and resiliency work can play in drought management in Washington.

Joe Mentor

Navigating Legal and Regulatory Uncertainty in an Over-Appropriated Basin

Abstract:

Water rights transfers are becoming more frequent as new water resources development becomes more difficult. Water transfers reflect greater efficiencies in agricultural water use, conversion of agricultural land to other uses, and demographic trends toward increased urbanization. Furthermore, transfers from existing uses can avoid many significant environmental impacts caused by developing new water supplies. Joe will discuss navigating the process of securing the transfer of water rights for new municipal water supply purposes in the Yakima River Basin. Joe will opine on lessons learned and paths forward in an uncertain legal and regulatory environment.

PROGRAM AND ABSTRACTS

2:35 - 2:55

Networking Break

2:55 - 3:40

Session 4: Bookends of the Planning Process

Moderator: Stacy Vynne McKinstry

Urban Eberhardt

Yakima Tributary Stream Enhancement Project and the Yakima Basin Integrated Plan

Abstract:

The Yakima Basin Integrated Plan (YBIP) is a comprehensive approach to address a variety of water resource and ecosystem problems affecting fish passage and habitat, in addition to agricultural, municipal, and domestic water supplies within the Yakima River Basin. Developed by the U.S. Bureau of Reclamation, Washington Department of Ecology and the Yakima River Basin Water Enhancement Project (YRBWEP) Workgroup (composed of representatives from Yakama Nation, federal, state, county, city governments, environmental organizations and irrigation districts), YBIP includes seven elements: reservoir fish passage, structural and operational changes to existing facilities, surface water storage, groundwater storage, habitat/watershed protection and enhancement, enhanced water conservation, and market reallocation.

The Kittitas Reclamation District's Yakima Tributary Stream Enhancement Project (YTSEP) is dedicated to implementing measures to use irrigation infrastructure to supplement water supply for fish habitat. Recently both the YBIP and the YTSEP as part of the Yakima River Basin Integrated Water Resource Management Plan, were enacted into law through the John D. Dingell, Kr. Conservation Management and Recreation Act.

Abby Hook

Clean Water, Healthy Habitat : An Outcome Driven Approach

Abstract:

King County takes many actions every year to protect and restore our waters and lands through regional land-use decisions, transportation operations, utility management, and pollution clean-up. The County is investing billions of dollars to deliver environmental services. And yet, whether due to constrained funding sources, regulatory requirements or programs working too much in isolation, those investments may not be addressing the greatest threats to our environment.

In response, Executive Dow Constantine launched his Clean Water, Healthy Habitat Initiative, requiring and empowering King County departments to coordinate more effectively to achieve the best water quality and habitat outcomes faster. Departments, down to the individual work group, are charged with showing how their ongoing efforts contribute to the overall County water quality and habitat outcomes and what progress they need to make to achieve the goals. And progress at the County-wide scale will be reported on with consistent measures and definitions for milestones every five years. The County will work with Tribes, federal and state regulators, cities, residents and ratepayers to ensure that investments in water quality and habitat – projected at \$6.3 billion over the next 10 years – bring the best outcomes for water quality, habitat, and health.

PROGRAM AND ABSTRACTS

3:40 - 4:00

Break & Networking

4:00 - 5:00

Session 5: Making Future Planning More Effective

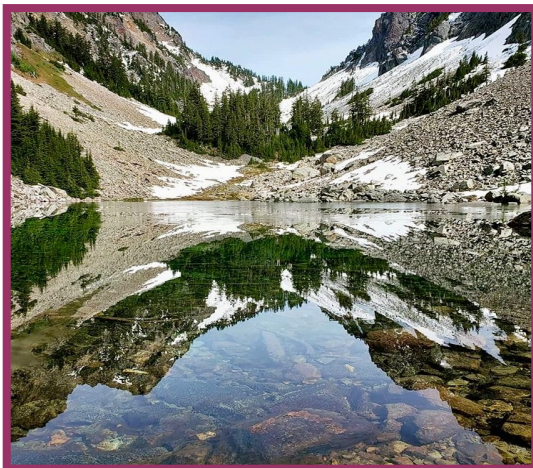
Moderator: Adam Gravley, Van Ness Feldman

Panel:

- **Tom Ring**, Yakama Nation
- **Will Stelle**, Washington Water Trust
- **Andy Hover**, Okanogan County
- **Steven Malloch**, Western Water Futures LLC

5:00 - 7:00

Closing Remarks & Reception



Melakwa Lake in the Alpine Lakes Wilderness
Photo by Izette Swan

SESSION SPEAKER AND MODERATOR BIOGRAPHIES



KENSEY DALY

Kensey Daly is a water resources engineer in Jacobs Engineering's Bellevue, Washington office. She has experience in hydraulic modeling and technical studies for a variety of different clients and projects.

Ms. Daly has practiced modeling tools, studies and plans for the use of integrated water resource management, climate change studies, flood control protection planning, sediment transport analyses, storm and water quality management and water sales forecasting. Ms. Daly's primary interests lie in cross-sector collaboration of water resources management and climate change adaptation.

Urban Eberhardt grew up on a Kittitas Valley farm. He was a member of the Future Farmers of America Parliamentary Procedure Team at Ellensburg High School, and is a past president of the Kittitas County Farm Bureau.

He was first elected to the board of directors of the Kittitas Reclamation District (KRD) in 1986 at the age of 25, becoming KRD secretary manager in 2015. He first became involved with the Yakima River Basin Water Enhancement Project (YRBWEP) in 1979. Urban helped with the successful passage of federal legislation that resulted in the initial phase of the Yakima River Basin Integrated Water Resources Management Plan. He continues to be a leader on water and drought issues in the irrigation community.



URBAN EBERHARDT



ADAM GRAVLEY

Adam Gravley practices environmental and water law with a focus on water rights and resources, transactions, civil litigation, and public policy. For public and private clients, he leads due diligence teams and provides strategic advice for complex transactions and projects. His comprehensive water rights practice includes permitting, water transfers and transactions, water supply agreements, public water system and drinking water regulation, litigation and appeals, general stream adjudications, settlement and mediation, governance and interagency agreements, legislation and agency rule-making, and related real estate, municipal, and public utility law matters. Adam has assisted project development clients in finding solutions for municipal, industrial, energy, and agricultural water supply.

SESSION SPEAKER AND MODERATOR BIOGRAPHIES

Sharon Haensly has practiced law since 1988. She has a bachelor's of science degree in Natural Resources from Cornell University (1981), and a law degree from the University of Oregon (1988).

Before representing the Squaxin Island Tribe, Sharon was an attorney for the U.S. Environmental Protection Agency, Swinomish Indian Tribal Community, and several Seattle law firms that represent Indian tribes.



SHARON HAENSLY



ABBY HOOK

Abby Hook is the lead of the Clean Water, Healthy Habitat agenda for the King County Department of Natural Resources and Parks. Abby has over 17 years of experience providing leadership for complex planning and projects that span the science/policy interface in a complex political, technical and social landscape. Over the course of her career, Abby has served in the Peace Corps, conducted hydrologic research, managed forest regulatory programs, led salmon recovery planning efforts, worked to protect treaty rights, engaged landowners for conservation efforts, and facilitated multi-stakeholder collaborative processes. In her spare time, Abby enjoys razor clamming, playing cards, and skiing.

Andy Hover is a current Okanogan County Commissioner in his first term. Andy grew up in Eastern Washington in the Methow Valley in Okanogan County and has continued to live there for most of his life. After receiving a degree in Agricultural Technology and Management from Washington State University, Andy began a career in management with a local hardware store and moved on to manage a large lumberyard in the Winthrop area. As the son of a former County Commissioner, politics became a natural point of discussion which eventually led to him running for Commissioner in 2016 and beating the incumbent. Water, and how it relates to land use planning, have been a constant in this first term and will continue to be a point of discussion and contention as planning efforts continue to revolve around an increasing population, a need for agricultural viability and the needs of fish and wildlife.



ANDY HOVER

SESSION SPEAKER AND MODERATOR BIOGRAPHIES

Mike Kaputa is director of the Chelan County Natural Resources Department, an appointed position working for the Chelan County Commissioners. He has been with the County since 1996, starting as an environmental and senior planner. The department works with local citizens and numerous agency, tribal and non-profit partners to advance water resource, salmon recovery, forest health, land use and recreation projects and programs. Mike has a professional land use planning certification through the American Institute of Certified Planners. Mike has served on a number of non-profit organizations dedicated to dispute resolution. Mike is currently serving on a local planning group to establish a formal relationship with the Issyk-Kul oblast in Kyrgyzstan.



MIKE KAPUTA



JOHN KOUNTS

John Kounts is Water Program Director for the Washington Public Utility Districts Association. He works with association members to formulate and advocate association positions on policies, legislation, and regulations affecting PUD water service. He also works with state agency staff to define and resolve water service issues and regulatory concerns.

John chairs the Washington Water Utilities Council's legislative committee and co-chairs the Washington Department of Ecology's Water Resources Advisory Committee.

John holds a master's degree in public administration from the University of Washington's Evans School of Public Policy and Governance.

Steven Malloch is a practitioner of political hydrology – working at the intersection of policy, law and all things water.

He has worked as a hydrogeologist, lawyer and lobbyist. He brings technical, legal and political tools to bear on the problems of improving the environmental performance of large water systems, especially irrigation and flood control projects in the Western U.S., and on the looming problems of adapting to the impacts of climate change on water infrastructure and use.

Steve is the founder of Western Water Futures, LLC, where he provides strategy, program development and implementation services for NGOs, philanthropists, and water managers. His practice is focused on creating innovative approaches that address today's problems while at the same time preparing for changing climate regimes. Prior to forming Western Water Futures in 2013, Steve worked in Washington D.C. and Seattle on water resources for the National Wildlife Federation, Trout Unlimited and as the executive director for the Western Water Alliance. His degrees are in geology and law from the University of California at Davis, with an MS in Water Resources Administration from the University of Arizona. He is admitted to the bar in Washington and California.



STEVEN MALLOCH

SESSION SPEAKER AND MODERATOR BIOGRAPHIES

Gillaume Mauger is a research scientist at the UW Climate Impacts Group. Specializing in Climate Science, his work focuses on understanding and adapting to the impacts of climate change on flooding and stormwater in the Pacific Northwest. Guillaume has worked on projects that assess hydrologic changes across a variety of Northwest watersheds, worked to apply climate information in habitat connectivity planning and collaborated with floodplain managers to integrate climate change into their work. Guillaume also serves as a resource to stakeholders that are interested in obtaining and understanding the numerous climate and hydrologic projections that are now available.



GILLAUME MAUGER



JOE MENTOR

Joe Mentor is the founder of Mentor Law Group PLLC. He serves clients with issues related to water resources, land use, natural resource development, real estate transactions, non-profit administration and Indian law. He works with private sector businesses, public agencies, and Indian Tribes to achieve their legislative, policy, business and environmental compliance objectives.

Since 2001, Mr. Mentor has been recognized as a “Super Lawyer” by *Washington Law & Politics* magazine. He has received the Highest Possible Rating from *Martindale-Hubbell*. Martindale-Hubbell® Peer Review Ratings are an objective indicator of a lawyer’s high ethical standards and professional ability, generated from evaluations of lawyers by other members of the bar and the judiciary in the United States and Canada. DONE

Steve Nelson (Past-President) is a licensed hydrogeologist and engineering geologist with 25 years of experience involving water resource assessment, development, management, remediation, and protection. Steve’s project experience includes characterization of groundwater systems for groundwater supply; water reuse; water rights evaluation; aquifer testing and modeling of groundwater flow, contaminant fate and transport. Steve conducts geologic investigations to evaluate foundations for water infrastructure, geologic hazards and slope stability; and designs infiltration and construction dewatering systems. Depending on the season, find Steve trail running, skiing, climbing in the Cascades or Sierra, and/or fly fishing.



STEVE NELSON

SESSION SPEAKER AND MODERATOR BIOGRAPHIES



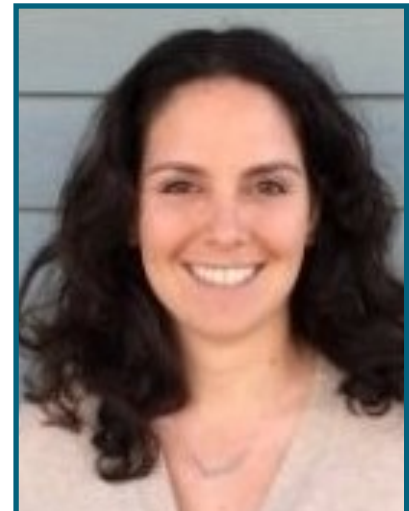
TOM RING

Tom Ring - Tom is a hydrogeologist with the Water Resources Program of the Yakama Nation. He has held this position since 1990 and, in that role, has worked on a variety of projects involving groundwater and surface water quantity and quality, water rights, irrigation and fisheries issues and planning for future water needs. Previously he worked for the Water Resources Program at the Washington Department of Ecology. Tom has Bachelors and Masters of Science degrees in geology from Central Washington University and Northern Arizona University respectively. He has taught geology and hydrogeology classes at Central Washington University and is a licensed geologist and hydrogeologist in Washington State. When not working, he enjoys hiking, climbing, and skiing in the mountains of the west.

Carrie Sessions is the Policy, Legislative and Economic Analyst for the Department of Ecology's Water Resources Program. In that role, she leads discussions about statewide policy issues and potential policy changes, analyzes proposed rules and legislation, and works with the Legislature on changes to water law.

Prior to joining Ecology, Carrie did policy and economic analysis on the state, federal and international levels, including working for consulting firms and for the United Nations Environment Program. She also spent several years teaching applied leadership on wilderness expeditions.

Carrie is a graduate of Colorado College and holds a MPA and MS from the University of Washington in environmental policy and economics, with an emphasis in water resource management. She graduated from all three programs with top academic honors.



CARRIE SESSIONS



ABHISHEK SINGH

Dr. Abhishek Singh has over 15 years of research and consulting experience in the areas of water resources planning and management, groundwater and surface-water modeling, risk and uncertainty analyses, optimization techniques, geographic information systems (GIS), and data analytics. As INTERA's Manager of California Operations, Dr. Singh oversees water resources projects for California water agencies and utilities to address issues that include understanding and modeling complex hydrogeologic systems and surface-water/ groundwater interactions, estimating basin-wide water budgets, addressing seawater intrusion, modeling contaminant plume migration, and planning for drought and climate change.

SESSION SPEAKER AND MODERATOR BIOGRAPHIES

David Troutt, Natural Resources Director, Nisqually Tribe. Director since 1987 of a diverse department comprised of salmon harvest management, two large salmon hatcheries, shellfish management, data operations, environmental management, wildlife management, dive services, legal, administration, and budget development and monitoring. He was previously the Chair of the Washington State Salmon Recovery Funding Board and the current Chair of the Puget Sound Salmon Recovery Council. He has also served as the Chair of the Nisqually River Council for the past 14 years. He is also the current Chair of the Nisqually River Foundation and a board member of Long Live the Kings. Mr. Troutt has also served on the Executive Committee of the Tri-County Response to ESA, the Development Committee of the Shared Strategy for Puget Sound, the Steering Committee for the Hatchery Reform Project, the Ecosystem Coordination Board of the Puget Sound Partnership and as a voting member of the Resource Advisory Committee for the Mount Baker/Snoqualmie National Forest. Mr. Troutt received his Bachelor of Science from the University of Washington School of Fisheries. He is also a proud husband and father of two teenage boys and has coached soccer and basketball for the past 13 years in DuPont/Steilacoom.



JON TURK

Jon Turk, LHG, is an Associate Hydrogeologist at Aspect Consulting. Jon's technical background includes 18 years of consulting experience delivering diverse water resources projects ranging from regional assessments to detailed contaminant plume mapping. He is an expert in the conjunctive management of surface water and groundwater resources and has worked throughout the Puget Sound region and across the United States. Jon has provided technical, regulatory, and legislative consultation for reclaimed/recycled water, and aquifer storage and recovery, representing multiple clients working with State and Federal agencies. Jon routinely manages multidisciplinary projects from watershed planning to engineering design, and provides technical leadership to Aspect's Water Resources practice. Jon focuses on communicating challenging hydrogeologic concepts through concise and meaningful dialog, and enjoys the process of developing new and sustainable water resource solutions.

Stacy Vynne McKinstry is the regional manager for streamflow restoration at the Department of Ecology's Water Resources Program. Stacy oversees implementation of RCW 90.94 in the Northwest Region and across the Ecology-led planning areas. She chairs the WRIA 15 (Kitsap Peninsula) planning group. Stacy previously worked at the Puget Sound Partnership, overseeing implementation of the Puget Sound salmon recovery plan and working with partners at all scales. Before joining the Partnership, Stacy worked on climate adaptation planning in Oregon and human-wildlife conflict programs in the U.S. and internationally. She has an undergraduate degree in Biology and Environmental Studies from Bowdoin College in Maine and a Master's degree in Environmental Studies and Non-Profit Management from the University of Oregon. When not chasing after her two toddler girls, her free moments are spent trail running with her dog, skiing and gardening.



STACY VYNNE MCKINSTRY

SESSION SPEAKER AND MODERATOR BIOGRAPHIES

Bennett Weinstein is with the Department of Ecology's Water Resources Program where he manages our State's brand new Streamflow Restoration work. In this role he is responsible for implementing RCW 90.94 – otherwise known as the 2018 Streamflow Restoration Act. Bennett manages a team of staff and consultants who are establishing and implementing a new state-wide competitive grants initiative as well as multi-year regional water planning work in 15 WRIAs across the state.

A recent transplant to Washington State, he spent 15 years in Georgia as a water policy advisor with the State's Environmental Protection Division as well as the Atlanta metropolitan area's regional water planning board. While in Georgia he supported the interstate litigation team's work on matters pending before the U.S. Supreme Court. He also managed the state's water planning work, coordinated the State's drought response, and managed the State's water supply permitting program.

Bennett earned his bachelor's degree in ecology from Michigan State University and his Law degree from Vermont Law School.



BENNETT WEINSTEIN



LISA DALLY WILSON

Lisa Dally Wilson is President of Dally Environmental and a licensed environmental engineer and professional facilitator with over 25 years of diverse experience in water resources. She provides consulting services in the areas of water resource planning and engineering and water policy, and often facilitates stakeholders addressing complex water and natural resource challenges at a watershed scale. She recently worked with the Nisqually Indian Tribe, serving as facilitator of the Nisqually (WRIA 11) Planning Unit, co-project manager and primary author of the Nisqually Watershed Plan Addendum to meet the requirements of RCW 90.94.020. The Nisqually 'Hirst Response' is the first plan to gain approval under Washington's new streamflow restoration law. Lisa holds a BS from Cornell University and a master's degree in Environmental Engineering from the University of Washington.

www.dallyenvironmental.com

STUDENT FELLOWSHIP PROGRAM

Nominations and Applications Sought

Each year the Washington Section of AWRA offers two graduate student fellowships. These awards are presented to a student enrolled in any Washington State advanced degree program studying a topic related to water resources science, policy, or management. One award, the Rod Sakrison memorial, goes to a member of a Washington Section sponsored student chapter of AWRA. The other award goes to any student in a water resources program. In 2019, the fellowship amount is \$2,500.

The 2019 awards went to **Silas Sleeper**, Central Washington University student using isotope hydrology to assess potential aquifer storage and recovery sites, and **Joe Weirich**, Eastern Washington University biology student studying Beaver Moderated Fire Resiliency in the North Cascades. In addition to the cash award of \$2,500, Silas and Joe each received full membership in the National AWRA and in the State Section.

The application period for the 2020 student fellowships is now open. The Washington Section Board has moved the application deadline from late October to mid-February to provide more time for applicants to complete their applications. after the opening of school in late September. **February 14, 2020 is the application deadline for the 2020 award.**



Snake River at Almota
Photo by Dave Christensen

STUDENT FELLOWSHIP PROGRAM

How to Apply

Any academic department with students enrolled in water resources programs may submit nominations for the award in a brief letter of nomination from a faculty representative familiar with the student's work. In addition, qualified students should prepare and submit an application packet, limited to five pages (excluding the faculty nomination), which includes the following:

1. The completed Application Form.
2. Statement of goals and objectives for graduate work.
- 3a. Detailed description of the student's research interest; or
- 3b. If pursuing a non-thesis degree, a one-page essay on how his or her course of study will allow the student to accomplish the goals and objectives identified in item 2.

The letter of nomination may be included in the application packet, or mailed separately by the faculty representative. Application packets and nomination letters are due by **February 14, 2020** and can be sent by email to samillerh2o@comcast.net or mailed to:

Stan Miller, Fellowship Committee Chair
AWRA Washington State Section
1329 S. Ferris Court
Spokane, WA 99202

Prior recipients of the fellowship award may reapply if their research is different from or an expansion on the work presented earlier. Applicants may receive no more than two awards during their academic career.

How Fellowships are Awarded

The Fellowship Committee will evaluate all applications received based on the following:

- The interdisciplinary nature of the course of study and research.
- The effectiveness of the response in communicating research objectives.
- The potential for applying the work to the current needs in water resource management.
- The reviewers' overall impression of the applicant's qualifications and presentation.

The Fellowship Committee will recommend recipients to the Washington Section Board of Directors. The winners will be notified as soon as the Board approves the awards and will receive special recognition at a State Section event.

Additional Information

The application and additional information are available on the AWRA-WA website at <http://www.waawra.org>. Further questions can be answered by Stan Miller at (509) 953-7887 or samillerh2o@comcast.net.

AWRA-WA PAST PRESIDENTS

2018	Jason McCormick	1999	Teresa Platin
2017	Steve Nelson	1998	Adam Gravley
2016	Allison MacEwan	1997	Rod Sakrison
2015	Tyler Jantzen	1996	Rod Sakrison
2014	Megan Kogut	1995	Jackie Hightower
2013	Dustin Atchison	1994	Paul Korsmo
2012	Scott Kindred	1993	Peter Willing
2011	Beth Peterson	1992	Stan Miller
2010	Felix Kristanovich	1991	Rachel Friedman-Thomas
2009	Jamie Morin	1990	Joan Lee
2008	Jacque Klug	1989	Bill Eckel
2007	Cleve Steward	1988	David Brown
2006	Mona Thomson	1987	Alan Ward
2005	Tom Martin	1986	Dale Anderson
2004	Joe Mentor Jr.	1984	George Wannamaker
2003	Anne Savery	1982	Nancy Nelson
2002	Stephen Hirschey	1981	Chuck Mosher
2001	Fran Solomon	1980	Kris Kaufman
2000	Pete Sturtevant	1979	Gary Minton



Diablo Dam

AWRA-WA PAST CONFERENCES

- 2018 Hirst, Foster, Boldt and Beyond: A New Era of Water Management?
- 2017 100 Year Anniversary of the Washington Water Code: Where We Came From & Where We're Going
- 2016 Rural Domestic and Municipal Water Supply
- 2015 Water Management Strategies in the Face of Climate Change
- 2014 Water Resources Infrastructure: Emerging Frameworks to Meet Multiple Objectives
- 2013 Future Directions in Water Resource Management
- 2012 The Columbia River, Basin, and Treaty
- 2011 A Perspective on Water Quality Issues Across Washington State
- 2010 Water Rights: Investing in 21st Century Water Management
- 2009 AWRA National Conference, hosted by WA-AWRA
- 2008 The Future of Water Storage in Washington State
- 2007 Transboundary Water Resources of Washington State and British Columbia
- 2006 Water Resource Disasters in Washington: Risk and Recovery
- 2005 AWRA National Conference, hosted by WA-AWRA
- 2004 The Impact of Climate Change on Pacific Northwest Water Resources
- 2003 Water's Woven Web: Land Use Planning and Water Resource Management in Washington
- 2002 Beyond Watershed Planning
- 2001 The Impact of Drought on Water Resources and Energy Management in the Northwest
- 2000 Water Marketing in Washington: Negotiating for a Future



Tieton River
Photo by Paul Peck

AWRA-WA PAST CONFERENCES

- 1999 Impressions of 1999 State Water Legislation: ESA Update and Pending 4(d) Rules
- 1998 ESA, Economy, Salmon and Agriculture...Where is the Water?
- 1997 Balancing Instream Needs with Out-of-Stream Demands
- 1996 The Water 'Crisis'- Myth, Reality, and Opportunities
- 1995 Water Quality/Water Quantity: An Artificial Distinction
- 1994 Fluvial Geomorphology: What We've learned in 20 Years, and where do we go from here? Interactions: River Dynamics, Land Forms and Land Use.
- 1993 Good Science, Good Decisions: The Role of Technical Analysis in Water Policy
- 1992 Reconciling Water and Growth
- 1991 State Water Policy and Growth Management
- 1990 Construction and Streams, Lakes and Wetlands: Closing the Gap between Planning and Doing
- 1989 New Developments in Floodplain Management
- 1988 Hydrology and Erosion Aspects of Timberland-Urban Conversions
- 1987 Attaining Compliance: Realities of Water Quality Regulation
- 1986 Off-site Impacts of Eroding Soils
- 1984 Groundwater Protection in Washington State, Preventing Aquifer Contamination and Depletion
- 1983 Small Streams and Lakes in the Urbanizing Environment—Will They Survive? Washington and Idaho Lakes and Their Future
- 1981 Water Resources Implications for Small Hydro Power Generation



Duwamish River near Tukwila
Photo by Steve Nelson

NOTES

2019 AWRA-WA Annual State Conference



AWRA-WA Section

PO Box 2102

Seattle WA 98111