

# Agenda

<b>Washington Groundwater Hydrology</b> The hydrologic cycle Precipitation and infiltration Groundwater aquifers Declining groundwater levels Relationship between groundwater and surface waters	<i>S.R. McLarty</i>
<b>Groundwater Use in Washington State</b> High-capacity groundwater wells <ul style="list-style-type: none"><li>▪ Municipal wells</li><li>▪ Agricultural uses</li><li>▪ Industrial and mining use</li></ul> Residential use Proliferation of wells Groundwater mapping Cumulative effect of groundwater pumping	<i>S.R. McLarty</i>
<b>Tribal Rights to Groundwater and Surface Water</b>	<i>W. Golding</i>
<b>Washington Groundwater Management Regulation</b> Groundwater regulation in Washington State Environmental protection and impacts on groundwater use Well drilling regulation Anticipated changes to state laws and rules	<i>D. Christensen</i>



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## Washington State Groundwater Conference

Live, Interactive Webinar - Friday, April 25, 2025

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## Washington State Groundwater Conference

Live, Interactive Webinar - Friday, April 25, 2025

This webinar covers Washington's groundwater hydrology, including the hydrologic cycle, aquifers, and the relationship between groundwater and surface waters. It explores groundwater use across various sectors, the proliferation of wells, and the cumulative effects of groundwater pumping. Additionally, it addresses groundwater regulations, environmental protections, tribal water rights, and anticipated changes to state laws.

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# Webinar Information

Online - Friday, April 25, 2025

Log into Webinar

8:00 - 8:30 am PDT

Break

11:45 am - 12:15 pm PDT

First Session

8:30 - 11:45 am PDT

Second Session

12:15 - 3:30 pm PDT

## Tuition

**\$339** for individual registration.

**\$237** per attendee for group registrations of two or more people registering at the same time for the same program.

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# Faculty

**Dr. Sasha Richey McLarty** is an assistant professor at Washington State University. Her main interest is in identifying and quantifying the interaction between human and physical systems, with a focus on groundwater and large-scale hydrologic systems. Currently, Dr. Richey's research combines satellite and in situ observations of hydrologic systems into modeling and decision support frameworks over large regional scales, including in the Columbia Plateau Aquifer in the Pacific Northwest (USA) and in Central Asia. She mainly focuses on complex groundwater systems, where interdisciplinary approaches are necessary to understand both natural and anthropogenic drivers of aquifer change. She enjoys working at the interface of research and water resources management and has contributed to multiple "science diplomacy" efforts in the United States and internationally to advance the role of scientific research in decision making. Dr. Richey earned her M.S. and Ph.D. degrees in Civil Engineering - Hydrology and Water Resources Specialty from the University of California, Irvine.

**Wyatt Golding** is an attorney with Ziontz Chestnut in Seattle. The firm serves the wide-ranging legal needs of Indian tribes and other Native American entities and individuals, as well as non-profit conservation and community groups. In addition to defending treaty hunting and fishing rights, the firm's work involves tribal sovereignty and jurisdiction, taxation, land and water rights, federal government contracting, and natural and cultural resource protection. Mr. Golding specializes in litigation involving the intersection of environmental law and federal Indian law, Washington state water law, and administrative environmental appeals.

**Dave Christensen** is the Washington State Department of Ecology Water Resources Deputy Program Manager. He has been with Ecology for 12 years working on legislative proposals, regulations, and policies on water resource management. Mr. Christensen has worked for state agencies, local government and non-profit organizations, with more than 30 years of professional experience in water resources, public health and environmental management.



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# Credit Information

This webinar is open to the public and provides a 6.0-hour learning opportunity to professional engineers and geologists in Washington.

This webinar has been approved by the Washington State Bar Association's MCLE Board for 6.0 total CLE credits, which includes 3.0 Law & Legal credits and 3.0 Other credits.

HalfMoon Education is an approved CM Provider with the American Planning Association. This course is registered for CM | 6 for Certified Planners.

This webinar may offer up to 6.0 PDHs to licensed professional engineers and geologists in some states. HalfMoon Education has not applied for state geologist continuing education approval in states requiring such.

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

## On-Demand Credits

The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate.

# Additional Learning

## Use of Nature-Based Solutions for Stormwater Management and Flood Resiliency

- Tuesday, March 25, 2025 | 7:00 - 9:00 am CDT

## Water Commodification and Privatization in the Western U.S.

- Monday, March 31, 2025 | 7:00 am - 2:00 pm PDT

## Using US EPA's Stormwater Management Model (SWMM)

- Wednesday, March 26, 2025 | 6:30 am - 2:00 pm CDT

## Engineering Ethics and Consequences

- Friday, April 4, 2025 | 11:00 am - 12:00 pm CDT

## How to Naturalize an Existing Stormwater Detention/Retention Basin

- Monday, April 7, 2025 | 12:00 - 2:00 pm CDT

## Streambank Stabilization

- Thursday, April 10, 2025 | 7:00 - 9:00 am CDT

## Deep Dive into PFAS in Our Water

- Friday, April 11, 2025 | 11:00 am - 2:15 pm CDT

## Stormwater Modeling and Design with HydroCAD

- Monday, April 28, 2025 | 7:00 am - 2:00 pm CDT

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