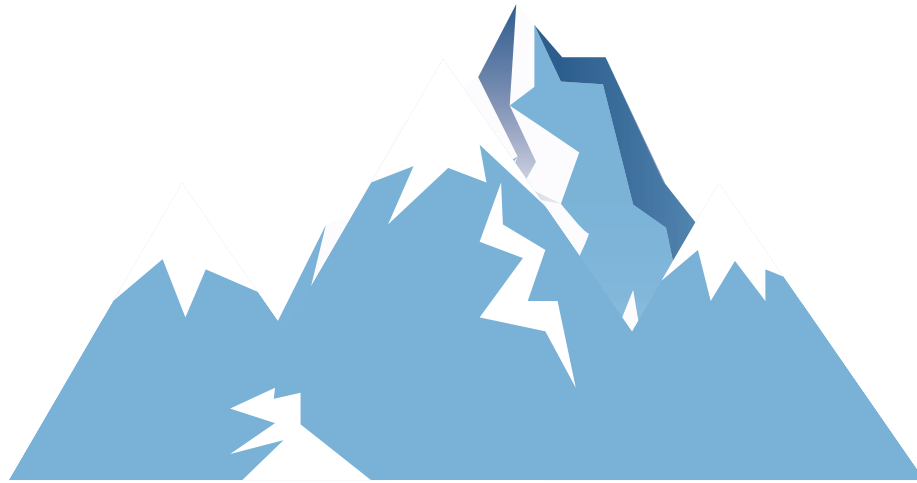


2022 ANNUAL
CONFERENCE

RENEWAL

BRINGING TOGETHER HYDROPOWER FOR A
RENEWED FUTURE



FEBRUARY 23-25, 2022

Waterfront Marriott Downtown
Portland, Oregon



INFORMATION AND REGISTRATION AT:

WWW.NWHYDRO.ORG

JOIN US

RENEWAL

The Northwest Hydroelectric Association is pleased to invite attendees to join us back in person at our Annual Conference. As we move into our 41st year, we are ready to take all the lessons we have learned while apart and bring them together into our annual conference. Plan on joining us to learn from industry experts, garner technical expertise, and catch up on much overdue networking with fellow hydropower professionals.

The conference will offer 16 professional development hours and include 26 events, sessions and networking activities,

We know how much you have missed connecting in person and so we look forward to gathering our industry safely to have important conversations to help grow hydropower's role in our clean energy future. We will see you in February!

TOPICS INCLUDE:

- Climate Change
- Invasive Mussels in the Northwest
- Dam Safety in Practice
- Empowering Hydro with DEI
- Why You Should Know About the Columbia River Treaty
- Breakfast Club- Topical Networking Discussions
- New Age of Integrating Hydro
- Recent Ecological Monitoring Experiences
- Policy and Regulatory Updates
- Plant Condition & Asset Management
- Legal 401
- Post COVID Hydropower Reality



REGISTRATION

REGISTRATION AND FEES

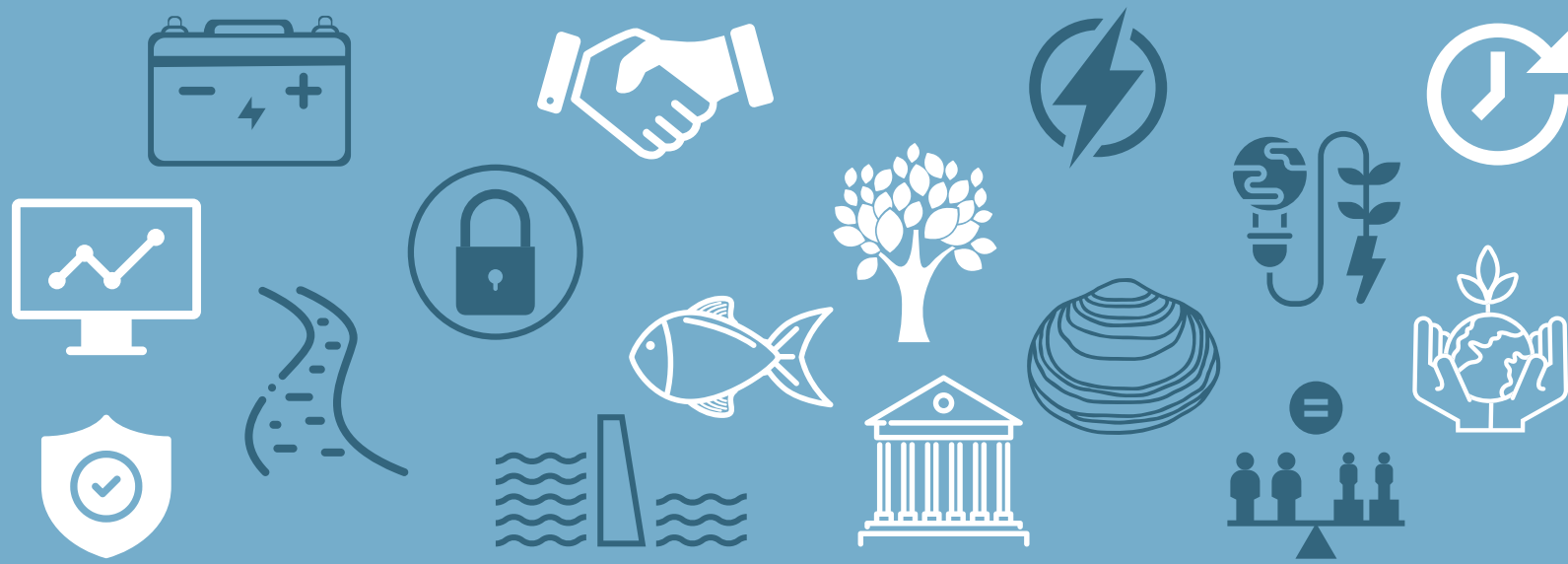
Registration for the NWHHA Annual Conference can be done online by visiting www.nwhydro.org.

Registration Category	Members	Non-Members
Advanced Registration (by 1/14/22)	\$550	\$650
Full Registration (After 1/14/22)	\$650	\$750
On-Site Registration (After 2/18/22)	\$745	\$845
Student Rate	\$125	\$125

Sponsors and Exhibitors- There are many more features in 2022, so please visit www.nwhydro.org/annual-conference.html to view the exhibitor and sponsor packages which range from \$1,500-\$2,750 to fit sponsors needs.

Should you have questions regarding accessing the online registration system, please contact Taylor at Taylor@nwhydro.org.

If you have questions regarding exhibits, speakers, or other conference details, please contact Brenna at (503) 502-7262 or brenna@nwhydro.org.



RENEWAL SESSIONS

TUESDAY FEBRUARY 22

1:00-4:00 P.M. SMALL HYDRO WORKSHOP

The small hydro committee is offering a complimentary workshop preceding the conference to focus on small hydro topics for our members to enhance their conference experience. Topics include:



- Legislative Update for Small Hydro- Jeff Leahey, SMI
 - What does the Infrastructure Bill mean to the small hydro owner?
 - Tax incentives for Small Hydro: How to use these incentives
- State Government Legislative/Regulatory Assistance- Nate Stice, Oregon Regional Solutions.
 - How to get support from your Governor's office when you need it?
- Small Hydro and Retrofit Management
 - Discussion on small hydro managing retrofits to meet changing engineering guidelines and aging infrastructure.
- Small Hydro...Advancing our Mutual Interests
 - Open discussion from all attendees on potential topics for a 2022 Small Hydro Conference, timing, and location.

12:00 P.M.-6:00 P.M. EXHIBITOR MOVE IN

5:00 P.M. NWAHA BOARD MEETING

WEDNESDAY FEBRUARY 23

7:00 A.M. REGISTRATION AND WELCOME BREAKFAST

8:00 A.M. WELCOME AND KEYNOTE

Welcome:

Mary Gail Sullivan – NWA President, Northwestern Energy

Keynote:

Sylvain Fabi, Consul General, Chief Negotiator, Canadian Treaty Negotiating Team **virtual presenter*

8:30-10:00 A.M. PANEL 1

Why you Need to Know About the Renegotiation of the Columbia River Treaty



The Columbia River Treaty is a transboundary water management agreement between Canada and the United States. The treaty optimizes both flood management and power generation through coordinated operations of dams, rivers, and reservoirs on both sides of the border. In the 50-plus years since the treaty was ratified, the hydropower landscape and associated resource views have changed significantly. The U.S., Canada, respective Indian Tribes, and First Nations continue to contemplate how to continue to balance these resources in modern times. Panelists will provide their perspectives on the Treaty and its far-reaching effects on our industry.

Moderator: Matt Love, Partner, Cascadia Law Group

Panelists:

Sylvain Fabi- Consul General, Chief Negotiator, Canadian Treaty Negotiating Team **virtual presenter*

Hub Adams- Bonneville Power Administration, Negotiator, United States Negotiating Team

Kathy Eichenberger- British Columbia- Ministry of Energy, Mines, and Low Carbon Innovation, Lead, Canadian Treaty Negotiating Team
**virtual presenter*

Nathan Matthew, Simpcw First Nation **virtual presenter*

Rick Agnew, Partner, Van Ness Feldman LLP

10:00-10:30 A.M. COFFEE BREAK IN EXHIBIT AREA

WEDNESDAY FEBRUARY 23

10:30-11:30 A.M. PANEL 2

Climate Change & Hydro in the Northwest: Assessing & Mitigating Risks, Seeking Opportunities

Hear the current assessment of climate trends for the Northwest and what they mean for the hydro system. How are we assessing, and beginning to mitigate, risks to the hydro system? Amidst these challenges, are there opportunities?

Moderator: Dr. Bart Nijssen, University of Washington

Panelists:

Ronda Strauch, Climate Change Research, Seattle City Light

John Chandler, Water Resources Technical Lead, Puget Sound Energy



11:30-12:30 COMMITTEE MEETINGS/NETWORKING BREAK

All Attendees Welcome to attend committee meetings

- Legislative/Regulatory- Portland Room
- Communications- Salons F-I Back Rows, East Side
- Energy Transition- Eugene Room
- Small Hydro- Salons F-I Front Rows, West Side
- Technical/O&M-Salons F-I Front Rows, East Side
- Natural Resources*

Attendees may alternatively visit with exhibitors and sponsors during this time.

*Will be meeting Thursday at Breakfast Club in the Portland Room



12:30-1:45 P.M AWARDS LUNCHEON AND ANNUAL MEETING

All Attendees Welcome

Attendees will get to meet the newly elected NWA Board of Directors, hear about NWA 2022 initiatives, ask questions about upcoming work of NWA, and most importantly help recognize the lifetime achievement award recipient of the Pamela E. Klatt award. Join us for this seated luncheon to network and celebrate.



WEDNESDAY FEBRUARY 23

1:45-3:00 P.M. PANEL 3

Dam Safety: How are We Doing at Developing the Next Generation of Experts in Our Field?

Panelists will talk about the risks of inadequate planning for the institutional brain trust retiring, training opportunities, and what is currently being done in their respective organizations.



Moderator:

Carrie Harris- Northwestern Energy

Panelists:

Nick Loos- Portland General Electric

Roger Raeburn- PacifiCorp

Brent Sullivan, Chief Dam Safety Engineer- PacifiCorp

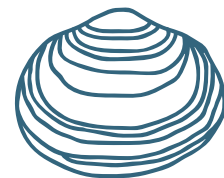
Toby Brewer- Tacoma Power

3:00-3:30 P.M. NETWORKING BREAK

3:30-4:30 P.M. PANEL 4

Invasive Mussels: A look Forward for the Northwest

Panelists will update on current understanding of the threat, response planning, and possible future scenarios.



Moderator: Stephen Phillips, Sr. Program Manager, Aquatic Invasive Species, Pacific States Marine Fisheries Commission

Panelists:

Tom Woolf, AIS Division Chief, Montana Fish, Wildlife & Parks

Damian Walter, Risk Management, USACE- Walla Walla District

Michael Stephenson, Senior Biologist, Idaho Power

WEDNESDAY FEBRUARY 23

4:30-5:30 P.M. PANEL 5

Empowering the Hydropower Industry with Diversity, Equity, and Inclusion

Diversity, equity and inclusion in the hydro industry is not just about employee composition. Inclusive participation, particularly from under-represented groups, into processes at all turns (staff team, public comments, suppliers, project siting, proposed mitigation) is important to consider and act on to have equitable and sustainable energy resources. Come be a part of this panel/fire-side chat to learn new ways to be inclusive in our hydro industry.

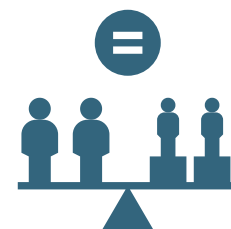
Moderator: Maranda Compton, Partner, Van Ness Feldman

Panelists:

Elin Katz, Director, Office of Public Participation, Federal Energy Regulatory Commission

Ryan Blood, Director Northern Generation, Puget Sound Energy
Puget Sound Energy

Allison Murray, Idaho Power



5:30-6:30 P.M. OPENING RECEPTION AND SOCIAL

THURSDAY FEBRUARY 24

7:30 A.M. REGISTRATION AND BREAKFAST

8:30-9:15 A.M. PANEL 6

Breakfast Club

Need informal guidance or advice on a hydro-related issue? Want to share your knowledge with industry colleagues on issues? Submit your issue or questions on Wednesday for small facilitated group discussions during breakfast on Thursday. Small groups organized by topic areas, will discuss issues faced by your fellow conference attendees and include topics like wildfires, COVID-19, as well as diversity, equity, and inclusion. Moderators and experts will be on hand to help facilitate discussions in areas of dam safety, communications/education, licensing, operations & maintenance, fisheries/water quality, land/terrestrial management. Grab your breakfast and follow signs to get join in topical discussions.



Topical networking over breakfast or coffee. Topics will include:

- Dam Safety/Engineering
- Communications/Education
- Licensing Process & Permitting
- Natural Resources- Committee Meeting in Portland Room
- Operations and Maintenance

9:15-9:30 A.M. COFFEE AND NETWORKING BREAK

9:30-10:00 A.M. PLENARY KEYNOTE

Welcome:

Brenna Vaughn - NWA Executive Director

Keynote:

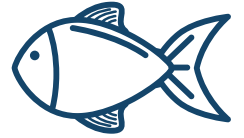
Colonel Michael Helton, Commander and District Engineer, U.S. Army Corps of Engineers,

THURSDAY FEBRUARY 24

10:00-11:30 A.M. PANEL 7

Recent Experiences in Ecological Monitoring

From eDNA to Drones to new analytical techniques, this panel looks at the advances in technology that enable us to expand the depth and breadth of investigations around hydro projects and their ecological connections including basin-scale considerations. Panelists will showcase their unique approaches and discuss the process for identifying the technology and winning acceptance from agencies, utilities, and scientists.



Moderator: Eve Davies, Principal Scientist, PacifiCorp

Panelists:

Ethan Bell, Senior Fisheries Ecologist, Stillwater Sciences- Use of eDNA and long-term monitoring **virtual presenter*

Dave Coffman, Restoration Program Manager, RES- Performance guarantees for ecological restoration monitoring

Jordan Tollefson, Northwestern Energy- Blue-green algae monitoring and coordination with counties and agencies

Kevin Nebiolo PhD, Senior Data Scientists and Section Manager, Kleinschmidt Associates, Development of bathymetric datasets using remote sensing – methods and applications for streamflow management in the Willamette basin

11:30-1:00 P.M. NETWORKING BREAK AND LUNCH

Choose from Women in Hydro Luncheon or Lunch with our Exhibitors

Attendees may choose to join the women in hydro luncheon (all attendees welcome) or join the exhibitors for an informal luncheon in the exhibit area and foyer.



THURSDAY FEBRUARY 24

1:00-2:30 P.M. PANEL 8

Policy and Regulatory Updates

Industry experts will provide policy and regulatory updates from inside the Beltway and the Pacific Northwest region. Don't miss this look at the Biden Administration's first year in review, FERC updates, and the impacts of new policies on the hydropower industry.



Moderator: Jeff Leahey, Vice President, Strategic Marketing Innovations

Panelists:

Malcolm Woolf, President & CEO, National Hydropower Association

Jenna Mandell-Rice, Partner, Van Ness Feldman

Jessica Helsley, Director Government Affairs, Wild Salmon Center

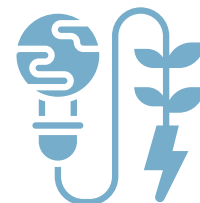
Tim Welch, Department of Energy **virtual presenter*

2:30-3:00 P.M. NETWORKING BREAK

3:00-4:30 P.M. PANEL 9

The New Era of Using Hydro and Storage for the Transforming Energy Market

This panel will explore energy storage capabilities in conjunction with hydropower to provide increased flexibility, environmental benefits, and faster response times. In addition, a discussion on the Energy Imbalance Market and Resource Adequacy in relation to Hydropower facility operators.



Moderator: Joe Heinzmann, Senior Product Manager, GE Power Services- Battery Hybrid Electric Gas Turbines - Pairing batteries with hydro

Panelists:

Chris Juchau, Power Analyst, Tacoma Power- Energy Imbalance Market

Ray Johnson, Assistant Power Manager, Tacoma Power- Resource Adequacy

Jon Olson, Director- Energy Trading and Contract, Sacramento Municipal Utility District

4:30-5:30 P.M. NWAH SPONSORED SOCIAL

THURSDAY FEBRUARY 24

4:30-5:30 P.M. HYDRO AMBASSADOR TRAINING/HAPPY HOUR

Become an Ambassador for Hydropower

Join NWA and the Bonneville Environmental Foundation to find out ways you can help educate K-12 students about hydropower. Learn what resources are available, how to connect with schools, what to take when you present to a class and hear how other ambassadors are supporting educating the next generation of hydropower workforce entrants. Grab a beverage from the exhibit hall and head to the Portland Room to join the happy hour.

FRIDAY FEBRUARY 25

8:30 A.M. REGISTRATION AND BREAKFAST

9:00-10:00 A.M. PANEL 10

From Assessment Management to Condition Assessment- How Practices are Being Applied Across Utilities from Programs to Projects

Hear from a well-developed asset management program and what their latest efforts are regarding assessment and condition monitoring. This conversation will be followed by a smaller utility member who has applied the approach of the larger owner into their utility as well as how others are developing asset management approaches. The session will conclude with specific case studies resulting from utility's that have applied and/or not applied asset management programs.



Moderator:

Robert Siedman, Director of Engineering & Technical Services, Southeast Alaska Power Agency

Panelists:

Gordon Ashby, Resource Economic Planner- Generating Assets, Bonneville Power Administration- Hydro Asset Management Program "HydroAMP"

James Volk, Principal Hydro Project Engineer, Basler- Applying Asset Management Case Study

Jeremy Bynum, Electric System Engineering Manager, Ketchikan Public Utilities- Generator Rewinds- A Case Study of Not Applying Asset Management

Brian Bell, Chief, O&M Technical Support, US Army Corps of Engineers

10:00-10:30 A.M. COFFEE NETWORKING BREAK

10:30-11:30 A.M. PANEL 11

Current Legal Landscape

Join us for a staple panel at our Annual Conference! The panel will discuss ongoing litigation and regulation affecting new and existing hydropower interests – ranging from 401 Certifications, TMDLs, and other important rulemakings and court actions.



Moderator: Andrea Wortzel, General Counsel- NWA, Partner, Troutman Pepper

Panelists:

Sharon White, Partner, Rock Creek Energy Group

Michael Campbell, Partner, Stoel Rives LLP

Charles Sensiba, Partner, Troutman Pepper

FRIDAY FEBRUARY 25

11:30-12:30 P.M. PANEL 12

Post-COVID: A New Reality or Temporary Inconvenience?

We have all experienced similar challenges related to the pandemic and there is no timeline for when it will end. As we hit the two-year pandemic milestone this panel will discuss what aspects of the pandemic are the new reality and which are temporary inconveniences. Will the supply chain catch up? Are masks and vaccines required? Do I need to return to the office? This panel will take a deeper dive into these questions, among others, and share best practices from across the industry.

Moderator:

Nathan Rockwood, Mead & Hunt

Panelists:

Melissa Boyd, Operations Support Senior Manager, Idaho Power

Jordan Fink, Chief, Electrical Branch, US Army Corps of Engineers, Hydroelectric Design Center

Chris Porse, Sales Manager- USA, Mavel



12:30-12:45 P.M. CLOSING, PRIZES, AND ADJOURN

JOIN A COMMITTEE OF NWAHA

The best way to dive in and get involved with NWAHA as a member is joining a committee. This is one of the largest member benefits to ensure that NWAHA is meeting members' needs and working on issues that matter most. Current committees are:

- Small Hydro
- Technical Operations
- Communications
- Natural Resources
- Legislative and Regulatory
- Energy Transition (formerly Pumped Storage)
- Young Professionals – Boise, Portland and Seattle
- Women in Hydropower – Portland and Seattle

We invite any interested members to join us at our committee

meetings on Wednesday the 23rd at 11:00 to get involved and hear about the latest topics within each committee. You can sign up to be a member of a committee(s) by emailing brenna@nwhydro.org. If you are interested in starting a committee or conversation, please also let us know so we can ensure we are having relevant conversations and commitment to our members.

INDUSTRY RECOGNITION

PAMELA E. KLATT AWARD

NWHA members nominate potential candidates for this award honoring Pam Klatt, in memory of her strong advocacy in promoting hydropower during her long-standing support of NWHA. The award recognizes individuals, like Pam, who have made significant contributions to the hydropower industry in the Northwest. For more information, visit www.nwhydro.org/awards.

The 2022 awardee will be presented the award ceremony on Wednesday at 12:00.

Past recipients –

2010 Jan Lee, Northwest Hydroelectric Assn.

2011 Julie Keil, Portland General Electric

2012 Bruce Meaker, Snohomish PUD

2013 John “Jack” Snyder, McMillen LLC

2014 Patti Kroen, Kroen Consulting

2015 Charles “Chick” Sweeney, Alden Labs

2016 John Esler, Portland General Electric

2017 Steve Padula, McMillen Jacobs Associates

2018 Pat McCarty, Tacoma Power

2019 Gregg Carrington, Chelan County PUD

2020 John Duhamel, Copper Valley Electric Association

2021 Colleen McShane, Seattle City Light

SCHOLARSHIP HONORING INDUSTRY COLLEAGUE

NWHA established the JULIE A. KEIL WOMEN IN HYDRO SCHOLARSHIP FUND in honor of Julie’s long-term commitment to the industry. In 2021, the scholarship committee selected Elsie Brown to receive the award. Applications are now being accepted for the 2022 scholarship. Julie worked at Portland General Electric for over 25 years and was a mentor and industry leader. Many of the utilities and companies nationwide have been able to benefit from Julie’s leadership, her insight and her ability to work with agencies toward mutual goals. You can honor Julie and help support the advancement of women in the hydropower industry by making a tax-deductible donation to the Julie A. Keil Women in Hydro Scholarship Fund. To donate with a debit or credit card or PayPal, go to nwhydro.org/scholarships. You can also mail a donation to the Hydropower Foundation. Checks should be made payable to Hydropower Foundation with the notation Julie Keil Fund in the memo line.

Hydropower Foundation

8200 Shaffer Parkway #270585

Littleton, CO 80127