NORTHWEST HYDROELECTRIC ASSOCIATION

2021 ANNUAL CONFERENCE PROGRAM

FEBRUARY 17-18, 2021
ALL VIRTUAL SUMMITS, WORKSHOPS, AND FIRESIDE ChATS

Register soon for maximum savings! To register please visit nwhydro.org
A SPECIAL THANK YOU!

Northwest Hydroelectric Association (NWHA) would like to recognize the following sponsor companies. We thank you for your support!

For more information, visit www.nwhydro.org
The Northwest Hydroelectric Associations is pleased to invite attendees (ahem, we meant campers) to be our guests at Hydro Camp this February. We have combined 40 years of experience through our annual conferences to deliver you the same caliber content you expect from us in a much cozier way at Hydro Camp. Wherever your cabin is these days, you can join us for a reimagined educational event filled with all-virtual summits, fireside chats, workshops, networking breaks with fellow campers, and a fresh approach to connecting as we navigate these wild waters.

Hydro Camp will offer 16 professional development hours, feature four utilities CEO’s sharing their insights, include over 20 events, sessions and networking activities, with the added ability to choose between live and recorded sessions throughout camp. Most sessions will be recorded and available to watch at your leisure over the spring months.

New this year is Camper Kits. Upon registering for Hydro Camp, campers will have the option to select a Camper Kit complete with themed camp goods, camp shirt and supplies from our partnering organizations.

Camp is calling. We will see you at Hydro Camp in February.
WE ARE VIRTUAL THIS YEAR

NWHA Board of Directors has worked hard to find a virtual campsite that will allow each camper to connect and engage not only with the content, but also each other. To that end, we are using a platform called Hopin for the event. A day or two before Hydro Camp, registered campers will be emailed the link to event. If you would like to check out Hopin event to get a feel for the platform, please visit www.hopin.to/event to see what public events are available. Be sure you have updated Chrome, Firefox or Safari for the event.
REGISTRATION AND FEES

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

<table>
<thead>
<tr>
<th>Registration Category</th>
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<th>Non-Members</th>
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<td>Student Rate</td>
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Sponsors and Exhibitors- There are many more features in 2021, so please visit https://www.nwhydro.org/hydro-camp-sponsor.html to view the exhibitor and sponsor packages which range from $750-$2,500 to fit sponsors needs.

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

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

In 2021, we have a mix tape to help get you ready for Hydro Camp. Make sure you rip a copy on the event website at the bottom of the page.
WEDNESDAY FEBRUARY 17

8:00 A.M. MORNING ASSEMBLY (TUNE IN LIVE)

Welcome:
Mary Gail Sullivan – NWHA President, Camp Director

Keynote:
Lisa Grow – President and CEO, Idaho Power Co.
**WEDNESDAY**

**8:30-9:45 TWO CONCURRENT FIRESIDE CHATS**

**1A: Dam Safety – Case Studies and FERC Perspectives**
The panel will share experiences from recent projects from both owner and FERC’s perspective.

**Moderator:** Brianne Sheron, PMP, PE, NW Hydropower Manager - HDR
**Panelists:**
- Peter Wade – Merced Irrigation District
- Daniel Huang – Eugene Water and Electric Board
- Douglas Boyer, PE - Chief, Risk-Informed Decision Making Branch, Division of Dam Safety and Inspections, FERC

**1B: Tailoring Hydropower Communications to Your Audience**
As hydro professionals, you are likely adept at knowing the value of hydropower, but are you adept at communicating that value to various audiences? How would your hydropower elevator speech sound for politicians versus grade-schoolers versus NGOs versus CEOs versus your neighbors? Would it be the same for Generation X versus Millennial versus Alpha? What media works the best for each audience? Messaging and delivery will either make or break what you are trying to convey – so let’s get it right! This panel of experts will provide you with examples, tools, resources, and ideas to help you communicate appropriately based on various audiences in a fireside chat format with audience participation.

**Moderator:** Neil Neroutsos – Corporate Communications Manager, Chelan County PUD
**Panelists:**
- Karrie Carnes – Public Affairs Specialist, Bonneville Power Administration
- Scott Simms – Executive Director, Public Power Council
- Heather Stringer – Science Cadre Member, North Central Education Service District
- Tim Brown – Public Affairs Leader, GE Renewable Energy

**9:45-10:15 TEAM BUILDING**
Meet exhibitors and sponsors in the expo hall.
2A: You Can’t Do It Alone- Multi-Agency Coordination of Reservoir Operations

This panel takes a deep-dive into coordinating the operation of river and reservoir systems across multiple agencies, basins, jurisdictions, and licenses. First, the joint work underway by Yuba Water Agency, California DWR, Scripps, and USACE to improve watershed forecasting and translate the improved forecasting into coordinating operational decisions for multiple reservoirs operated by different parties. Second, a look at the modeling relied on by BPA/USACE/BOR in developing the Columbia River System Operations EIS and the proposed measures across 14 Federal facilities in MT, WA, ID, and OR.

Moderator: John Yarbrough – CA Department of Water Resources

Panelists:
John Leahigh, Executive Manager, Water Operations - CA Department of Water Resources
John James, Operations Manager – Yuba County Water Agency
F.Martin Ralph, Ph.D., Center for Western Weather and Weather Extremes, Scripps

2B: Managing Public Safety and Shorelines

Can this be done in a manner that is financially responsible while keeping the peace? YES!!! This panel will provide industry approaches and direct experience in managing the public’s presence in and around operating hydro facilities. From shoreline management with private landowners to facilities that promote recreation or have high incidents of trespassing, we will provide insights on how to best manage the risk and opportunity of these diverse, and often competing interests.

Moderator: Bill Cochran, PE, Former Power Resource Section Chief/DWR, Oroville Operations, Relicensing, and Field Manager, and Merced Irrigation District, Hydro Operations Manager

Panelists:
Dave Zayas – Compliance Consultant, Idaho Power Co.
John McVaigh – Hydro Operations Director, Brookfield Renewable
DianeBarr – Principal and Owner, Camas LLC
11:15-12:15 COMMITTEE MEETINGS (TUNE IN LIVE)

All attendees welcome to attend committee meetings.
- Legislative/Regulatory
- Communications
- Natural Resources
- Pumped Storage Hydro
- Small Hydro
- Technical/O&M

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

12:30-1:15 ANNUAL MEMBERSHIP MEETING PRESENTATION OF THE PAMELA E. KLATT AWARD

Campers will get to meet the newly elected NWHA Board of Directors, hear about NWHA 2021 initiatives, ask questions about upcoming work of NWHA, and most importantly help recognize the lifetime achievement award recipient of the Pamela E. Klatt award. Join us in the virtual mess hall to recognize the 2021 recipient.

1:15-2:45 TWO CONCURRENT SESSIONS NATURE TRAIL

3A: State and Federal Agency Collaboration

This panel provides agencies with a platform to address the hydropower industry as a whole, with emphasis on the benefits of the ongoing collaboration and problem solving between the agencies and the hydropower industry.

Moderator: Matt Love - Cascadia Law Group

Panelists:
- David Turner, Program Manager - Federal Energy Regulatory Commission
- Tim Welch, Hydropower Program Manager - Department of Energy
WEDNESDAY

1:15-2:45 CONTINUED
NATURE TRAIL

3B: Status of Fisheries Restoration Efforts in the Northwest
Stewardship opportunities are abundant at hydroelectric facilities when it comes to fish. This panel will discuss specific restoration projects, partnerships, and regulatory drivers for restoration of the salmonid populations affected by project operations. Fish passage, habitat restoration, stream flows, preservation, management controls, good science, and monitoring are all important stewardship activities. Today's panel of professional biologists will address a range of issues that must be considered when implementing fish restoration efforts.

**Moderator:** Travis Nelson, FERC Hydro License Compliance – Tacoma Power

**Panelists:**
Megan Hill, Manager, Environmental Services – Portland General Electric
Richard Piaskowski, Fish Biologist – US, Army Corps of Engineers
Jon Hanson, Hydropower Environmental Compliance – Northwestern Energy

2:45-3:30 CEO FIRESIDE CHAT (TUNE IN LIVE)
GHOST STORIES

The Legend Rip Van Wrinkle tells the story of a Dutch American villager who falls asleep in the Catskill Mountains and wakes up 20 years later to a changed world, having missed the American Revolution. This Q&A session with industry executives and experts asks the question "what will the world look like when we all wake up from our COVID dream and how will the industry be different?"

**Moderator:** Patty Boyle – Eugene Water and Electric Board

**Keynote Speakers:**
Chris O’Riley, President & CEO – BC Hydro
Bob Rowe, President – Northwestern Energy
Mary Kipp, CEO – Puget Sound Energy (Invited)
4A: Keeping Hydropower Generation Cost Competitive
Escalating O&M Costs and constrained revenue opportunities are creating challenges for the industry. From aging assets that need more maintenance to forced outages to regulatory generation constraints generators need to find ways to stay cost-competitive. This panel will discuss what the industry is doing to address these challenges to ensure hydro generation remains the low-cost renewable energy for the future decarbonized grid.

Moderator: Steve Sinclair – Manager, Resources Sciences & Asset Management, Puget Sound Energy
Panelists:
Steve Miles – Director, Hydroelectric Design Center, US, Army Corps of Engineers
Bob Weisbeck – Manager, Hydro Operations and Maintenance, Avista Corporation
Keith Underwood – Natural Resources Manager, Tacoma Power

4B: Markets/Integration of Renewables
States are moving aggressively to reduce greenhouse gasses by replacing thermal generation with renewable energy sources; hydro can fill these gaps, but the transitions are difficult to predict and manage. This panel explores what operational and technological changes might be needed in the hydro industry to meet this challenge.

Moderator: Walker Stanovsky – Davis, Wright, Tremaine
Panelists:
Andrew Campbell – UC Berkeley Energy Institute
Tony Zimmer – AGM Energy Supply

4:30-5:00 NETWORKING
CAMPFIRE SONGS AND S'MORES IN EXHIBIT HALL

4:30-5:30 AFTER HOURS SOIREE
WOMEN IN HYDRO HAPPY HOUR/TRIVIA (TUNE IN LIVE)
THURSDAY FEBRUARY 18

8:00-9:00 BREAKFAST CLUB (TUNE IN LIVE)
MESS HALL

Topical networking over breakfast or coffee. Topics will include:
- Dam Safety/Engineering
- Communications/Education
- Licensing
- Fisheries/Water Quality
- Operations
- Terrestrial/Land
- Maintenance
- Permitting

9:00-10:30 TWO CONCURRENT SESSIONS
COWBOY CORRAL

5A: The Art of Negotiation and Consultation in Hydro Licenses and Relicensing

Modern licenses have numerous adaptive management triggers that require ongoing consultation and mini-negotiations. The trend of engaging in consultation and negotiation during relicensing continues to be relevant as a means of managing uncertainty and establishing protocols for problem-solving. This panel explores the best-practices for developing settlement agreements and engaging in agency consultation in a rapidly changing world.
5B: Legal and Policy Roundup
Despite the standstill in our personal lives, the past year has been an especially active one for federal legal and policy developments, complete with a change in administration. Join the panel for an in-depth review of recent and predictions for upcoming legislation, regulations, and litigation affecting new and existing hydropower interests- ranging from FERC policy to EPA rulemakings and recent court action, to federal species law developments.

Moderator: Angela Levin, Partner – Troutman Pepper
Panelists:
Charles Von Reis – Chelan County PUD
Dennis Cakert – National Hydropower Association
Veronica Keithley – Stoel Rives LLP
Walker Stanovsky – Davis Wright Tremaine

10:30-11:30 SUMMIT

6: What Else Could Go Wrong?
Case studies will present how compounding factors like the pandemic and emergencies can complicate planning, responses, and public engagement.

Moderator: Heidi Wahto - Stantec
Panelists:
Paul Walz - Senior Engineer, Idaho Power Company

11:30-12:00 CLOSING CAMPFIRE

Townhall summit, closing ceremonies, camper awards for, Best Dressed, Playing All-out, Game Winner, Most Chats, Most Questions, Cleanest Cabin, and Most Improved Camper.
Please join NWHA in 2021 as we celebrate our 40th Anniversary! In 1981, a small group consisting of a Washington and Oregon legislator, a paper company executive, an irrigator, small hydro operator and county commissioners from both Oregon and Washington banded together to make the Northwest Small Hydroelectric Association. Today we support 135 members across 6 states and Western Canada. We are a grassroots organization working on behalf of all of our members and we thank you for helping us as we look forward to the next 40 years!

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

- Small Hydro
- Technical Operations
- Pumped Storage
- Young Professionals – Boise, Portland and Seattle
- Women in Hydropower – Portland and Seattle
- Awards
- Communications
- Natural Resources Committee

We invite any interested members to join us at our committee meetings at on Wednesday the 17th at 11:15 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.
2020 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 2021 awardee will be presented the award ceremony on Wednesday at 12:30 p.m.
Past recipients —
2010 Jan Lee, Northwest Hydroelectric
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

Scholarship Honors 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 2020, the scholarship committee selected Ka’Liyah Burnett to receive the award. Applications are now being accepted for the 2021 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
10118 Spotted Owl
Highlands Ranch, CO 80129
Save the Date! We don't know what 2021 holds, but we will aim to be together in Portland in 2022 or see you back at Hydro Camp in 2022!

Register online at nwhydro.org
Thank you to our Board of Directors who spend countless hours planning, organizing and executing the strategy and mission of NWHA. They are responsible for setting the tone, content and identifying speakers for the Annual Conference. Please join us in thanking them for their extraordinary flexibility and imagination to bring our industry something special in 2021.

Mary Gail Sullivan – President
Northwestern Energy
Heidi Wahto – Vice President
Stantec
Mark Jones – Treasurer
HDR
Finlay Anderson – Secretary
Kleinschmidt Associates
Trey Acteson – Past President
Southeast Alaska Power Agency
Angela Levin – General Counsel
Troutman Pepper
Diane Barr
Camas, LLC
Ryan Blood
Puget Sound Energy
Patty Boyle
Eugene Water & Electric Board
Catrin Bryan
McMillen Jacobs Associates

Barbara Craig
Stoel Rives, LLP
Scott Flake
Scott Flake Consulting
Bruce Howard
Avista
Matt Love
Cascadia Law Group
Allison Murray
Idaho Power Company
Travis Nelson
Tacoma Power
Matt Pevarnik
GE
Dawn Presler
Snohomish County PUD
Sandra Slayton
ERM
Alene Underwood
Chelan County PUD
John Yarbrough
CA Dept. of Water Resources
Wednesday February 17

8:00- Morning Assembly/Keynote
8:30-9:45- Two Concurrent Sessions
   Dam Safety - Case Studies and FERC Perspectives
   Tailoring Hydropower Communications to Your Audience
9:45-10:15- Break in the Exhibitor Area
10:15-11:15- Two Concurrent Sessions
   Multi-Agency Coordination of Reservoir Ops.
   Managing Public Safety and Shorelines
11:15-12:15- Committee Meetings/Break In Exhibitor Area
12:30-1:15- Annual Membership Meeting/Pamela E. Klatt Award
1:15-2:45- Two Concurrent Sessions
   State and Federal Agency Collaboration
   Status of Fisheries Restoration Efforts in the Northwest
2:45-3:30- CEO Fireside Chat: Ghost Stories
3:30-4:30- Two Concurrent Sessions
   Keeping Hydropower Generation Cost Competitive
   Markets/Integration of Renewables
4:30-5:00- Break in the Exhibitor Area
4:30-5:30- Women in Hydro Happy Hour/Trivia

Thursday February 18

8:00-9:00- Breakfast Club
9:00-10:30- Two Concurrent Sessions
   Negotiation and Consultation in Hydro Licenses and Relicensing
   Legal and Policy Roundup
10:30-11:30- What Else Could Go Wrong?
11:30-12:00- Closing Campfire