



HYDROPOWER
FOUNDATION



Hydropower's future;
One student at a time

Photo: 2022 Hydro Think Tank Competition at Grand Coulee Dam

Annual Report

2022

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Your Support is Making a Difference

Your support through membership and sponsorship has contributed directly to the Foundation’s mission, to increase the waterpower community’s opportunity to contribute to society and the environment. Thank you. The Hydropower Foundation’s success depends on you.

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We Serve

Students, Educators, and the hydropower community

Alex Junge, Civil/Energy Engineer, WSP

"... I learned about how hydropower positively impacts our communities. I also learned about the role of engineers in hydropower, the types of problems engineers work on, and the values hydropower companies hold the highest."

Nick Zellerhoff,
Eastern Washington University

"After attending the Hydro Think Tank I learned how valuable of a resource hydro can be moving forward with the future power grid."



- Hydroelectric Design Engineer at U.S. Army Corps - Alysa Velez
 - *"I attended the 2019 Hydro Think Tank Competition & it was a lot of fun. I came into the Think Tank with very little knowledge of hydropower but left with so much insight about the topic and my future. My team won first-place at the Think Tank, and that was just the cherry on top. Hydropower is clean AND cool!"*
- Mechanical Engineer at General Electric - Zach Dunagan
 - *"I attended the 2020 Hiring for Hydro. Hiring for Hydro demonstrated to me that the future for sustainable, clean energy relies on the newer generation, and I believe hydropower is a source of energy that needs more attention since it's very efficient and clean. Hiring for Hydro contributed to my career path by making connections with individuals who are interested in the same career path as me."*
- Power Business Technology Analyst - Chelan County PUD - Annika Kallstrom
 - *"Thank you! Again, I really want to express how grateful I am for the Hydro Foundation and how Hiring for Hydro helped me get introduced to working in hydro. Keep up the good work!"*

Scholarships

The Julie Keil Scholarship Award

- An education scholarship program empowering female students enrolled in an accredited college or university and majoring in a discipline relevant to explore a future in any aspect of hydropower. The scholarship is based on merit and financial need as a memorial dedicated to our long-time friend and colleague, Julie Keil.
- Thank you to the Julie Keil Scholarship Committee for volunteering and contributing time and resources to ensure the scholarship continues to support and value women who reflect leadership, enthusiasm, energy, courage, strength, and persistence.

Brenna Vaughn - Northwest Hydroelectric Association

Dawn Presler - Northwest Hydroelectric Association

Linda Church-Ciocci - Hydropower Foundation

Bree Mendlin - Hydropower Foundation

Marla Barnes - National Hydropower Association

Shannon Ames - Low Impact Hydro Institute

Kristin Sweeney - Julie Keil's Family Representative

Tim Brush – Inter-Fluve, Inc

John Suloway - Gomez & Sullivan

2022 Recipient - Chelsee Brumback,
North Carolina University



"Receiving this scholarship has been such an honor. The award has helped make the pursuit of a graduate degree focused on water resources engineering more attainable and has further opened my eyes to the vast opportunities within the hydropower field. I just accepted a Water EIT position with Stantec!"

- Chelsee Brumback, NCSU

Mike Sale Memorial Scholarship

- To promote graduate-level research in specific areas associated with and to benefit the waterpower industry and its environmental management practices.
- Mike Sale was a huge presence in the hydropower community. He served over 25 years as a distinguished research staff member and manager at Oak Ridge National Laboratory before retiring in 2008. Not one to rest, Mike became an independent consultant and invaluable member of numerous technical teams as well as a charter member of the Low Impact Hydropower Institute's governing board in addition to serving as a board member of the Hydropower Foundation.
- Mike had a deep love for hydropower and its value to the electric system, and continually emphasized the importance of improving the resource through science based investigation and problem solving.



Accepting applications in 2023

Volunteers



2022 Board of Directors and Advisory Members

Board of Directors

Tim Brush - Interfluve, Inc.
Steve Amaral - Alden
Michael Manwaring - Stantec
Wayne Pietz - AECOM
Shelly Adams - Seattle City Light
Stacey Graham - Southern Company
Lisa Larson - HDR
Andy Peters - River Connectivity Systems
Shannon Ames - Low Impact Hydro Institute
Del Shannon - Kiewit
Russ Sanford - Kleinschmidt
Alison Colotelo - Pacific Northwest National Lab
Thomas Mosier - Idaho National Lab
Chris Hayes - CEATI
Steve Wenke - Mana Consulting
Norm Bishop - Knight Piesold
Janet Audunson - National Grid
Paul Jacobson - EPRI
Jeff Leahey - SMI

Advisory Members

Erin Foraker -
U.S. Bureau of Reclamation
Tuuli Hakala -
Chelan County PUD
Mark Killgore -
State of Virginia

Volunteer Committees

Communication Committee

- Andy Peters, River Connectivity Systems - Chair
- Alison Colotelo, PNNL - Co-Chair
- Russ Sanford, Kleinschmidt - Secretary
- Paul Jacobson, EPRI
- Michael Manwaring, Stantec
- Norm Bishop, Knight Piesold
- Kristina Mahler, Hatch
- Mark Killgore, State of Virginia

Governance & Nominating Committee

- Tim Brush, Interfluve, Inc. - Chair
- Lisa Larson, HDR
- Shannon Ames, LIHI

Development Committee - Membership

- Wayne Pietz, AECOM - Chair
- Mike Manwaring, Stantec - Co-Chair
- Del Shannon, Kiewit
- Andy Peters, River Connectivity Systems

Executive Committee

- Steve Wenke, Manna Consulting - President
- Norm Bishop, Knight Piesold - Treasurer
- Janet Audunson, National Grid - Legal Counsel
- Jeff Leahey, SMI - Assistant Legal Counsel
- Del Shannon, Kiewit - Vice President
- Shannon Ames, LIHI - Secretary

Finance Committee

- Norm Bishop, Knight Piesold - Treasurer & Chair
- Steve Wenke, Mana Consulting
- Janet Audunson, National Grid
- Del Shannon, Kiewit

Program Committee

- David Sinclair - Chair
- Brennan Smith, HDR
- Chris Hayes, CEATI
- Erin Foraker, USBR
- Jose Zayas, ACORE
- Paul Jacobson, EPRI
- Thomas Mosier, INL
- Steve Amaral, Alden Lab

**Interested in giving back and participating in one of our committees?
Contact us today! Info@hydrofoundation.org**

Executive Team



Linda Church-Ciocci - Executive Director
Linda@hydrofoundation.org



Bree Mendlin - Program Director
Bree@hydrofoundation.org



David Sinclair - Strategic Advisor
David@hydrofoundation.org

Financial Viability

Thank you for the continued support!

2022 CORPORATE MEMBERS

- AECOM
- ALDEN RESEARCH LABORATORY
- AVISTA
- BARNARD CONSTRUCTION
- CEATI
- CHELAN COUNTY PUD
- CLARION EVENTS
- CURRENT HYDRO
- GRANT COUNTY PUD
- HDR
- IDAHO NATIONAL LABORATORY
- JANET AUDUNSON & DAVE YOULEN
- JF BRENNAN
- KIEWIT
- LITTORAL POWER SOLUTIONS
- LOW IMPACT HYDRO INSTITUTE
- NORTHWEST HYDROELECTRIC ASSOCIATION
- KLEINSCHMIDT
- KNIGHT PIESOLD
- MAVEL
- MCMILLEN JACOBS ASSOCIATES
- NATIONAL HYDROPOWER ASSOCIATION
- SCHNABEL ENGINEERING
- PACIFIC NETTING PRODUCTS
- PHILLIPS & JORDAN
- PORTLAND GENERAL ELECTRIC
- SEATTLE CITY LIGHT
- SOUTHERN COMPANY
- STANTEC
- VAN NESS FELDMAN
- WORTHINGTON

2022 FRIENDS OF THE FOUNDATION

- NORM BISHOP
- STEVE WENKE
- WAYNE PIETZ
- MARK KILLGORE
- TIM BRUSH
- WAYNE DYOK

2022 SUPPORTERS

- NORTHWEST HYDRAULIC CONSULTANTS
- LITOSTROJ US
- NATIONAL HYDROPOWER ASSOCIATION
- SOUTHERN COMPANY
- THOMPSON/KBH THOMPSON
- BARNARD
- MAVEL
- BRASFIELD & GORRIE
- KNIGHT PIESOLD
- KLEINSCHMIDT
- NATIONAL RENEWABLE ENERGY LABORATORY
- PACIFIC NORTHWEST NATIONAL LABORATORY
- U.S. DEPARTMENT OF ENERGY WATER POWER TECHNOLOGIES OFFICE
- SMUD
- PACIFIC GAS AND ELECTRIC
- AVISTA UTILITIES
- HDR
- STANTEC
- U.S. BUREAU OF RECLAMATION
- GRANT COUNTY PUD
- CHELAN COUNTY PUD



Join the club!

Workforce Programs

Hiring for Hydro

Connecting students interested in a hydropower career with the hydropower community!

- Brings together students from regional post-secondary schools to participate in an educational workshop about careers in hydropower, followed by a special recruiting session.
- Since its inception in 2017, Hiring for Hydro™ has reached over 200 students from over 14 colleges in the Pacific Northwest who have participated in an educational workshop about careers in hydropower and recruiting sessions. The program is working, and students are getting hired into the hydro industry!
- Provides students with a jam-packed day that includes a Hydro101 session, resume building, an opportunity to learn about hydropower career opportunities from partnering organizations, and most importantly, the chance to meet and network with hydropower industry professionals and potential employers.

200+ STUDENTS REACHED
from over 14 colleges & universities

Hydro Think Tank

- A three-day competition for post-secondary students from universities and trade schools hosted within a region, placed into teams, and given a hydropower challenge to solve.
- Overall, the students learn a ton, meet new like-minded students and provide innovative solutions to real-world challenges.
- Students gain access to industry professionals to ask questions, participate in educational sessions like hydro 101, fish management, emotional intelligence, and have the opportunity to get a behind-the-scenes look at the local hydro facilities.
- Finally, the students present their best solution, and the top three teams walk away with cash prizes, excellent resume boosters, and networks in the industry that often lead to internships and jobs.

2022 PNW Competition at Grand Coulee

A three-day competition for post-secondary students where we host students within a region, place them into teams, and give them a hydropower challenge to solve.

2022 event in Sacramento, CA

A one-day event co-located alongside an industry conference. The event includes a Hydro 101, learn about career opportunities and meet and great with industry leaders.

What we heard from participants & Sponsoring Organizations:

"The Hydro Think Tank is about so much more than just a student competition. It is about inspiring industry leaders and students to solve today's most difficult hydropower challenges."

- Dale Campbell, Grant County PUD

"The Hiring for Hydro Unplugged event was fantastic, and I would certainly recommend the event to a fellow classmate."

- Julian Medrano, University of California, Sacramento

"I wanted to say thank you again for setting up the Hydro Think Tank. It was an awesome experience!" -
Katie Restis, Eastern Washington University

We thank organizations who are dedicated to the sustainability of hydropower and investing in the future workforce!



Hydropower Community Events



Second Annual Golf Tournament

Grant Work

STEM WORKFORCE DEVELOPMENT PROJECT 2019 - CURRENT

As part of an effort to recruit the best and brightest waterpower workforce to the Hydropower Foundation has partnered with the U.S. Department of Energy's (DOE's) Water Power Technologies Office (WPTO) and the National Renewable Energy Laboratory (NREL) to launch the Science, Technology, Engineering, and Math (STEM) workforce development project.

- Kicked-Off the first Hydropower Collegiate Competition (HCC) & fourth Marine Energy Collegiate Competition (MECC)
- Co-Moderated the Hydropower Workforce Workshop; Aligning Workforce and STEM programs to address gaps and meet workforce needs
- Co-Moderated the Advance Workforce and Identifying Industry Priorities Workshop (Pictured Right)
- Support the monthly HCC Educational Webinars for student teams
- Convening conversations on instilling change now for a diverse workforce tomorrow.



A CONVENING ROLE FOR THE FOUNDATION

- The Hydropower Foundation is working together with the U.S. Department of Energy and the Pacific Northwest National Laboratory to convene and facilitate industry forums in support of the Hydropower Visionaries, the reimagining of the Visionaries Report, and the associated leadership of its Visionary Program.
- This utilizes The Foundation's unique independent status and leadership to bring together many divergent interests.
- The Hydropower Vision Roadmap: A Pathway Forward: Provides a detailed roadmap of potential technical, economic, and institutional actions by the hydropower community to optimize hydropower's continued contribution to a clean, reliable low-carbon domestic energy generation portfolio, while also ensuring the nation's natural resources are adequately protected or conserved.



Past, Present, Future; A Glimpse at A Sustainable Tomorrow

In 2022 we contracted with 2030 Solutions to canvas other funding organizations to find other groups who share a similar vision to the Foundation and where we might further support the hydropower community. We are planning to continue this effort in 2023 with the intent to broaden our footprint within the community.

As we look ahead, we still have a number of challenges in front of us, but we are addressing those head on. We are evaluating our finances at all levels. We have a task group assigned to evaluate how we might attain more revenue for the organization. Our Contract Staff continues to carefully manage expenses. And with these efforts, we look forward to bringing the community regional Hydro Think Tanks and Hiring for Hydro career events, in addition to continuing to support the STEM workforce development efforts and other initiatives alongside the Waterpower Technologies Office, and their Labs.

All of these would not be possible without you. Your time and financial support individually, as a member, sponsor, and contributor have provided the means for the Foundation to continue to support our mission.

On behalf of the entire Board of Directors, we thank you for your continued support of the Foundation.

With thanks,

Steve Wenke, President
Linda Church-Ciocci, Executive Director



Thank You to our friends and supporters!

Contact Us



720-468-0557



Info@hydrofoundation.org



www.hydrofoundation.org



Donations by mail can be made out to:
Hydropower Foundation
8200 Shaffer Pkwy #270585
Littleton, CO 80127

Do you want to be part of the solution to our clean energy future?

- Make a Financial Contribution
- Become a Member
- Sponsor an Event - Hiring for Hydro, Hydro Think Tank, Fundraising and Career Building Events
- Visit our website, www.hydrofoundation.org & sign up to receive the quarterly Foundation Runner Newsletter
- Donate to the Julie Keil Scholarship or the Mike Sale Scholarship Fund
- Join the Board or Committee
- Consider a Legacy Gift
- Follow us on the Social Media Channel of your choice
- Be a Mentor

