

**USFS/NRCS Large Wood Workshop  
September 12 - 15, 2023**

<b>Tuesday, September 12, 2023 - Presentations Day 1</b>		
<b>Time</b>	<b>Topic</b>	<b>Presenter/ Leader</b>
8:30-9:30am	<b>Welcome &amp; Introductions</b> <i>Lunch orders for Wednesday and Thursday will be taken all morning. Please bring cash!</i>	Samia Savell- NRCS Mark Pentecost - FS
<b>STREAM ECOLOGY</b>		
9:30-10:15am	1. Ecology and Habitat of Fish and Other Aquatic Organisms in Alaska	Sheila Jacobson FS
10:15-10:30am	<b>Break</b>	
10:30-11:15am	2. Historic Role and Current Need for Wood in Riverine Ecosystems	Andy Dolloff - FS Research Retired
11:15-12pm	3. Large Wood Research	Keith Nislow PhD - FS Research
12-1pm	<b>Lunch</b>	
<b>ROLE OF WOOD IN STREAMS</b>		
1-1:45pm	4. Beyond Biology - Geomorphic Function and Significance of Wood in Streams	Dan Cenderelli - NSAEC
1:45-2pm	<b>Break</b>	
2-2:45pm	5. Beyond Biology (continued): Recruitment, Mobility/Stability, and Delivery of Large Wood in Streams	Dan Cenderelli - NSAEC
<b>INSTREAM WOOD PLANNING AND DESIGN</b>		
2:45-3:15pm	6. Project Site Selection - Where and Why	KK Prussian FS
3:15-4pm	7. Data and Analysis Requirements for Engineering Large Wood Structures in Streams	Mark Weinhold - NSAEC
4-4:15pm	<b>Break</b>	
4:15-5pm	8. Hydraulic Modeling and Channel Design Considerations	Mark Weinhold - NSAEC

***Join us for pizza this evening! Courtesy of Trout Unlimited.***

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Wednesday, September 13, 2023: FIELD DAY		
8-5pm	Tour stream restoration sites, including equipment and hand-tool LWD projects <ul style="list-style-type: none"><li>• Cemetery Creek - SAWC hand tool restoration</li><li>• Gandalay Hanaa and Harris River - USFS heavy equipment restoration</li></ul>	Vans/ carpool
<i>Bring your own lunch, or order lunch on Tuesday morning for the field day. Please dress for weather - waders are ideal, boots and rain gear at a minimum.</i>		

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Thursday, September 14, 2023		
Time	Topic	Presenter/ Leader
<b>INSTREAM WOOD PLANNING AND DESIGN (cont.)</b>		
8-8:45am	1. Federal and State Permitting Requirements	Samia Savell - NRCS; Greg Albrecht -ADFG
8:45-9:45am	2. Large Wood Structures - Types, Configuration, and Methods of Construction	Bob Gubernick - NSAEC
9:45-10am	<i>Break</i>	
10-10:45am	3. Engineering Design Analysis - Buoyancy/ Drag Calculations, Tree Species, and Other Considerations	Bob Gubernick NSAEC
10:45-11:30am	Managing Risk/Expectations and Defining Success	Dan Miller - Interfluve
11:30am-12pm	Group Discussion/Questions	Samia Savell - NRCS
12-1pm	<i>Lunch</i>	
<b>CONSTRUCTION/INSTALLATION</b>		
1-1:30pm	4. Contract Package Development - Plans, Specs, Cost Estimation, Contract Types, Acquisition, etc.	Bob Gubernick - USFS NSAEC
1:30-2:30pm	5. Putting Work on the Ground - Layout, Equipment Types and Limitations, Logistics, Timing, etc.	Brian Bair - USFS Enterprise
2:30-3pm	6. Safety Around Construction Sites	Dan Miller - Interfluve
3-3:15pm	<i>Break</i>	
<b>MONITORING AND CASE STUDIES</b>		
3:15-4:15pm	7. Monitoring Considerations	Andy Dolloff USFS SRS retired
4:15-5pm	8. Tongass Monitoring and Findings	Emil Tucker and Jess Davila - FS

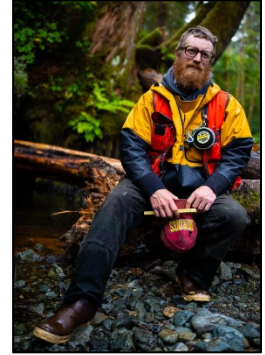
***Join us for an evening gathering featuring stream restoration slide/video show. Location TBD.***

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Friday, September 15, 2023		
	FUNDING, PANEL DISCUSSION, AND CASE STUDIES	
8:00-9:00am	Group Discussion - debrief on site visits	KK Prussian - USFS
9:00-9:30am	Case Study	Brian Bair USFS Enterprise
9:30-11:30am <i>(with 15 minute break)</i>	Case Study Roundtable - <ul style="list-style-type: none"> <li>• Yakutat - Nate Catterson</li> <li>• Hamlin Creek - Hannah Harris</li> <li>• Missouri - Bob Gubernick</li> <li>• Tree Tipping - Dan Miller</li> <li>• Spasski Creek - Samia Savell</li> </ul>	Samia Savell - Facilitate Agency and Partner
11:30am-noon	Final wrap up - funding, project planning, collaboration discussion	Samia Savell - NRCS
<b>TRAVEL HOME SAFELY</b>		

Quinn Aboudara

Quinn Aboudara is the Natural Resources Department Stewardship Coordinator for Shaan Seet Incorporated and is the primary point of contact for the Klawock Indigenous Stewards Forest Partnership (KISFP). Quinn is a lifelong Prince of Wales Island resident, and was raised in a traditional Alaskan Native home, studying Traditional Ecological Knowledge and Indigenous Science with their Uncles, Aunts, and Elders. Quinn is passionate about blending Traditional Ecological Knowledge and Indigenous Science with more contemporary western science.

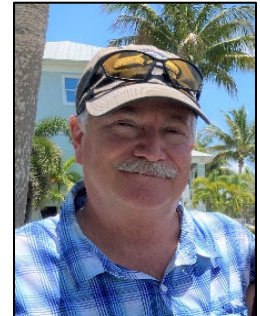


Greg Albrecht

Greg has been with the Alaska Department of Fish and Game, Habitat Division, for 12 years in his hometown of Juneau. In addition to permitting and monitoring instream wood restoration projects, his job duties include forest practices implementation, biomonitoring, and conducting research to aid in permit decisions.

Brian Bair

As the Watershed Restoration Projects Lead with the USDA Enterprise Program for the past 15 years, Brian has worked on large scale watershed restoration projects throughout the United States, from Alaska to Florida, Maine to Hawaii. Brian received a B.S. in Biology from Montana State University in 1990. He migrated to the Columbia River Gorge to windsurf and work on the Gifford Pinchot National Forest prior to working with Enterprise. Brian's life goal is to leave the earth better than he found it.



Rob Cadmus

Passionate about sustainability, Rob is the Executive Director of the Southeast Alaska Watershed Coalition. SAWC works to bolster the long-term sustainability of communities and wise management of watersheds. He has facilitated restoration projects designed to provide clean water to people in Africa and Asia, and was the Conservation Director at the Southeast Alaska Conservation Council. He has an MS in Ecology from U. of Otago.



Nate Catterson

Nate is a Fisheries Biologist with the Yakutat Ranger District of the Tongass National Forest.

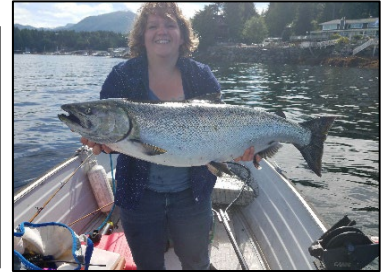
Dan Cenderelli

Dan is a PhD Geomorphologist with the Forest Service's National Stream and Aquatic Ecology Center (NSAEC). He has researched the vulnerability of watersheds to climate change, and contributed to multiple aquatic organism passage trainings hosted by NSAEC.



Jess Davila

Currently a fisheries biologist in the Ketchikan Supervisors Office, she has worked on the Tongass National Forest since 2011. She has a BFA from State University of New York at New Paltz, and an MNR from Oregon State University.



Andy Doloff

Andy is a retired Research Ecologist and Project Leader for the USDA Forest Service, Forested Watershed Science Research Unit and Professor in the Department of Fish and Wildlife Conservation at Virginia Tech. He was a Principal Science Advisor to the Center for Aquatic Technology Transfer (CATT) a research/management partnership. A native of Maine, Andy has a BS in Wildlife Management from U of Maine, an MS in Zoology from N. Carolina State U., and a PhD in Fish and Wildlife from Montana State U. He has done research on salmon and trout in southeast Alaska.

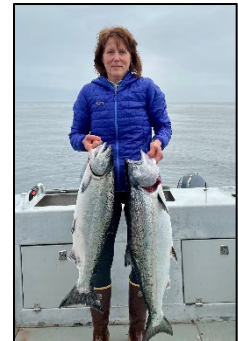
Bob Gubernick

Bob Gubernick is an Engineering geologist with 40 years of field experience working for the Forest Service and private consulting. He serves as the Watershed Restoration Geologist providing national technical support on aquatic organism passage and complex stream restoration to federal and state agencies, nonprofits, and tribal entities.



Sheila Jacobson

Having worked for the Forest Service Alaska Region for over 30 years, Sheila Jacobson is a Fisheries Biologist on the Tongass National Forest and currently serves as Forest Fisheries Program Manager for fisheries habitat planning, protection, restoration, and enhancement within the framework of multi-use management. She holds a bachelor's degree in Fish and Wildlife Management from University of Missouri-Columbia with graduate coursework in Fisheries and Ocean Sciences from University of Alaska.



Ian Johnson

For the last 8 field seasons Ian has helped grow and lead the Hoonah Native Forest Partnership as the Environmental Coordinator for Hoonah Indian Association. That partnership seeks to complete landscape assessment and restoration projects using a local workforce. He is also a community catalyst for the Sustainable Southeast Partnership, and works on energy, food, and youth development projects in Hoonah. He holds a masters in Wildlife Biology and Conservation.



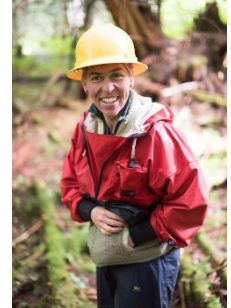
Dan Miller

An engineer specializing in river restoration projects including site assessments, site survey, UAV imagery collection, project design, construction oversight and monitoring, Dan has been with the nationwide stream restoration firm Inter-Fluve since 1997. His projects include habitat enhancement, large wood structures, side channels and fish passage and are located throughout the Pacific Northwest and Alaska.



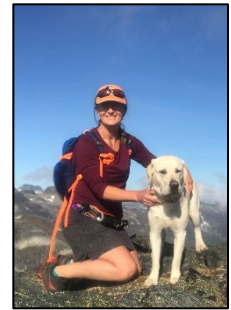
Katherine (KK) Prussian

KK is a hydrologist and the Watershed Program Manager for the Tongass National Forest, having also worked as a hydrologist on the Idaho Panhandle National Forest, and as a physical scientist for the Pacific Northwest Research Station. She has experience evaluating watershed condition, planning watershed projects, and working with partners to build ecological and social resilience in rural areas.



Samia Savell

Honored to live and work in the traditional homelands of the Tlingit, Haida, and Tsimshian people, Samia is the District Conservationist for the Natural Resources Conservation Service in Juneau. She helps private forest and agricultural landowners conserve natural resources throughout the region, and especially enjoys building collaborative efforts that support environmental stewardship and community/economic development in rural Alaska. She holds degrees in Natural Resources and Watershed Management.

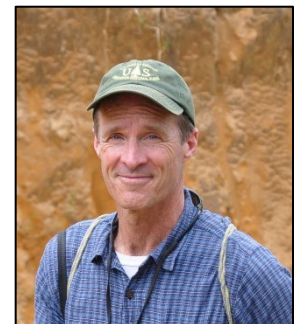


Emil Tucker

Having lived and worked in Petersburg for nearly 25 years, Emil is a Hydrologist for the Tongass National Forest. His principal work is hydrography, stream classification, monitoring, and data management. He is focused on improving our understanding of how streams respond to disturbance.

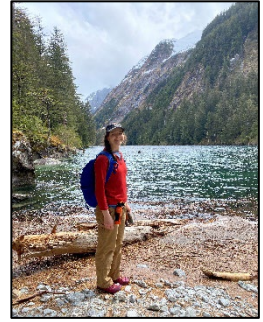
Mark Weinhold

Mark is a hydrologist and hydraulic engineer who has spent most of his career managing water resources on the ground and is a co-developer of the Forest Service's methodology for designing, building, and monitoring aquatic organism passage and flood resilience structure at road-stream crossings. He has worked extensively on water resources issues in the US, Asia, and Central Africa. In his spare time, he founded Terra Firma Rainwater Collective (TFRain.org), a nonprofit working on water supply and urban erosion issues in Congo.



Robin Welling

Robin Welling is a hydrologist with the Tongass National Forest. She works across the forest with other Forest Service staff and partners to plan, design, implement, and monitor stream restoration projects. Robin is passionate about process-based approaches to restoration and integrating multiple disciplines in the planning process. She is grateful to live and work in such a beautiful, rugged, and river-rich place.



Heath Whitacre

Heath is the district hydrologist at the Tongass National Forest's Petersburg Ranger District and a proud member of their "Aquatics" team, where he's worked for 19 years. His favorite projects include restoring degraded streams and floodplains on PRD and around the forest, as well as teaching field-based restoration workshops. He has a BS in Biology from Fort Lewis College in Durango, Colorado, and an MS in Watershed Science from Utah State University.

