


Elwha River Science Symposium

September 15-16, 2011



Welcome to the Elwha River Science Symposium. Amazingly, after all the years, all the meetings, all the plans, and all the striving, we stand at one of those great turning points in land stewardship. Restoration of the Elwha River will soon be more than a dream or a plan, it is about to be an actual and tangible

project with its own trajectory of accomplishments and discoveries. This symposium will bring us all to the same page as we hear about our colleagues' recent research. Together with our invited speakers, ponder this poignant moment and realize that Elwha restoration is a giant landmark in our care for planet earth. 

Thursday {9/15}

- 8:30-10:00 Introduction
Brian Winter
Keynote: James R. Karr

- 10:00 - 10:40 BREAK**

- 10:40 - 12:00 *Session 1* - Fish and Wildlife
Session 1 - River Physical Science

- 12:00 - 1:00 LUNCH @ PUB**
Elwha Outreach Meet & Greet**

- 1:00 - 2:20 *Session 2* - Fish and Wildlife II
Session 2 - Nearshore Physical Science
Session 2 - Cultural / Human

- 2:20 - 2:40 BREAK**

- 2:40 - 4:00 *Session 3* - Nearshore Biology
Session 3 - River Physical Science II
Session 3 - Vegetation Science

- 4:30 - 6:30 Poster Session - {Sciences Building}

- 7:00 - 8:30 Yvon Chouinard public event
{Gymnasium}

Friday {9/16}

{Gymnasium}

- 9:30 - 11:30 Introduction
Dick Goin
Rob Young

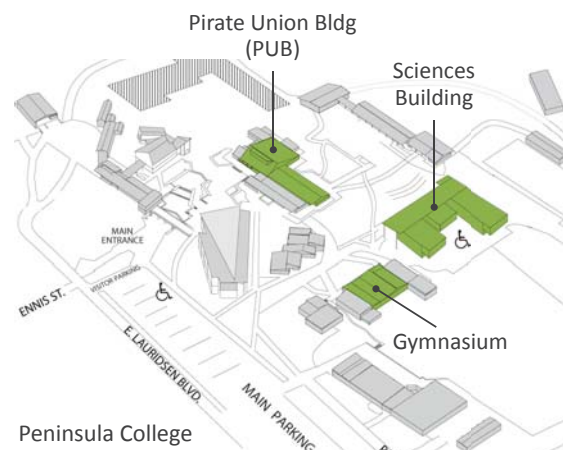
- 11:30 - 12:30 LUNCH @ PUB**

- 12:30 - 2:00 *Plenary* - Keynote: Thomas E. Lovejoy
Martin Doyle
{Discussion to follow}

- 2:00 - 2:30 BREAK**

- 2:30 - 4:00 *Plenary* - Thomas Quinn
David R. Montgomery
{Discussion to follow}

- 4:30 - 7:30 Evening Cruise to Elwha



** Involved in communicating about the Elwha in any way? Join other like-minded communicators at lunch on Thursday, to share experiences and ideas for spreading the word about this unprecedented dam removal and restoration effort.

Concurrent Sessions

{A} - Little Theater (PUB)
{B} - Science Bldg. Lecture Hall
{C} - Conference Room (PUB)

Thursday

Session 1

	{A} Fish and Wildlife	{B} River Physical Science
10:40	Brenkman - <i>Riverscape Surveys</i>	Konrad - <i>River Hydrology</i>
11:00	Zimmerman - <i>Chinook Status</i>	Bromley - <i>Reservoir Sediment</i>
11:20	Mayer - <i>Adult Fish Weir</i>	Bountry - <i>Sediment Management</i>
11:40	Winans - <i>Rainbow Trout Genetics</i>	Magirl - <i>Sediment Monitoring</i>

Session 2

	{A} Fish and Wildlife II	{B} Nearshore Physical Science	{C} Cultural / Human
1:00	Morley - <i>Freshwater Ecology</i>	Warrick - <i>Estuary Morphology</i>	Conca - <i>Elwha Valley Archaeology</i>
1:20	Small - <i>Pink Salmon Genetics</i>	Miller - <i>River Delta Evolution</i>	Wray - <i>Elwha Human History</i>
1:40	McLaughlin - <i>Birds & Reveg.</i>	Ogston - <i>Coastal Sediment Dispersal</i>	Lanz - <i>Semantics of Restoration</i>
2:00	Adams - <i>Riparian Mammals & Amphibians</i>	Gelfenbaum - <i>Coastal Sediment Modeling</i>	Meyer - <i>Economic Evaluation</i>

Session 3

	{A} Nearshore Biology	{B} River Physical Science II	{C} Vegetation Science
2:40	Shaffer - <i>Estuary Fish</i>	Pess - <i>Channel Habitat</i>	Shafroth - <i>Floodplain Vegetation</i>
3:00	Anderson - <i>Intertidal</i>	Draut - <i>Channel Evolution</i>	Chenoweth - <i>Revegetation</i>
3:20	Fresh - <i>Marine Fish</i>	McHenry - <i>Channel Restoration</i>	Michel - <i>Seed Rain/Revegetation</i>
3:40	Rubin - <i>Scuba Surveys</i>	Beechie - <i>Floodplain Dynamics</i>	Woodward - <i>Exotic Plant Issues</i>

{For oral presentations above only presenting author is listed. Full author list, title and abstract of each talk and poster is available at <http://elwharesearchconsortium.wildapricot.org>}

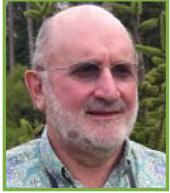
Featured Speakers



Thomas E. Lovejoy

Elwha and the Emerald Planet

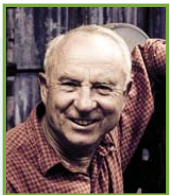
Professor of Environmental Science and Policy at George Mason University and Biodiversity Chair at the Heinz Center for Science, Economics and the Environment, he Chairs the Science Advisory Panel for the Global Environment Facility, and founded the Public Television series NATURE. He helped found the science of conservation biology and was an advisor in the Reagan, George H.W. Bush and Clinton administrations.



James R. Karr

The Elwha Restored: Not Only a River

Professor Emeritus at the University of Washington and a Sequim resident, his research specialties are tropical ecology, ornithology, stream ecology, watershed management, and environmental policy. He developed the Index of Biotic Integrity (IBI) to directly evaluate the effects of human actions on water quality and the health of living systems.



Yvon Chouinard

Conservation and Patagonia

A rock climber, surfer, sailor and fly-fisherman, he champions environmental causes on a global scale. He began making climbing gear and selling it to friends from his car. His entrepreneurial tendency led him to found Patagonia, known for fine outdoor clothing and equipment. He spends significant time in South America working to protect the natural beauty and free-flowing rivers of his company's namesake.



Martin Doyle

America's Rivers and The American Experiment

Professor of river science and policy at Duke University, his research is at the interface of science, economics and the policy of river management and restoration, and the future of water infrastructure under changing climate and population conditions. He has received an NSF Early Career Award, a Guggenheim Fellowship, and was named the inaugural Frederick J. Clarke Scholar by the U.S. Army Corps of Engineers.



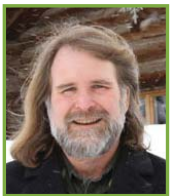
Dick Goin

Born on a farm in Iowa, he emigrated to Washington State during the dust bowl, and first encountered the Elwha River as a boy of six in 1937. He has spent thousands of days over the last seven decades observing the river and its salmon populations. Dick is one of very few who can speak to the former magnitude and diversity of fish runs in what was one of the greatest rivers on the Olympic Peninsula. Dick is a strong advocate for wild fish in the Elwha River and serves as an important baseline of institutional memory for many.



Gordon Grant, Plenary Master of Ceremonies

Research Hydrologist with the U.S. Forest Service, Pacific Northwest Research Station, and Professor (Courtesy) in the Department of Geosciences at Oregon State University, his research has focused on the geomorphic response of rivers to changes in stream flow and sediment transport due to land use, dams and dam removal, and climatic variation.



David R. Montgomery

King of Fish: Looking 1,000 Years Back to See 100 Years Forward

David R. Montgomery is a professor in the Department of Earth & Space Sciences at the University of Washington. His research interests range from the co-evolution of the Pacific salmon and the topography of the Pacific Northwest to interactions among climate, tectonics, and erosion in shaping mountain ranges.



Thomas Quinn

Changing Themes in Salmon Conservation: A Brief, 35 year, Personal Perspective

A professor in the School of Aquatic and Fishery Sciences at the University of Washington, he conducts research on the ecology, behavior, evolution, and conservation of salmon and trout. His research projects have included all Pacific salmon species as well as trout and char, in freshwater and marine habitats, and have been conducted in Washington, British Columbia, and Alaska.

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National Park Service
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Washington Sea Grant
Lower Elwha Klallam Tribe
Washington's National Park Fund

{Financial Donations}



{Donations to Elwha Science Scholarship}

Chinook Salmon (\$150) - Philip Meyer, Jeffrey Duda
Sockeye Salmon (\$50) - Stephanie Carter
Chum Salmon (\$25) - Paula Cunningham, Judy Finn, Jerry Freilich, Nancy Bluestein-Johnson, Bill Kindler, Tom Martin, Dave Shreffler, Robert Vreeland, Laurie Ward

{Supplies Support}

U.S. Fish & Wildlife Service
National Oceanic & Atmospheric Administration
U.S. Geological Survey
Staging Techniques

{Local Vendors}

Red Lion Inn
Harbinger Winery
Good to Go Natural Grocery
Barhop Brewing
Oven Spoonful

{Travel Support}

U.S. Geological Survey
National Park Service

{Elwha Research Pioneers}

The current members of the Elwha Research and Nearshore Consortia would like to acknowledge the contributions of the "pioneers" who came before us and lent their vision, enthusiasm, and dedication to dam removal and ecosystem restoration in the Elwha River. Today, we stand on their shoulders at the start of a new chapter in the story of the Elwha River and dedicate ourselves to provide a similar service to those who follow.

Thank You to Our Sponsors & Donors!!