

JOINT COMMITTEE ON FISHERIES ENGINEERING AND SCIENCE



2020 Webinar Series

Please join us: Wednesday, June 3, 2020



PRESENTER BIOGRAPHY

Kinsey Frick joined NWFSC in 2003 as a Research Fisheries Biologist. She holds Honors B.A.s in Biology and International Studies from Oregon State University and an M.S. in Zoology from the University of New Hampshire for studies on nudibranch predator-prey relationships in the Gulf of Maine. Kinsey is an ecologist who uses observational studies, animal tracking technology, and experimental behavioral trials to evaluate processes and biological responses to marine and freshwater systems. Her current research focuses on 1) designing and evaluating adult lamprey passage systems at hydropower dams, 2) nearshore marine fish population ecology studies, 3) marine fish population response to dam removals on the Elwha River, and 4) forage fish population dynamics in the Salish Sea. In addition to ecological observation, Kinsey enjoys SCUBA diving, hiking, traveling, and watching her kids play all the sports.

WEBINAR INFORMATION

Date: Wednesday, June 3, 2020

Time:

12:00 PM EASTERN 11:00 AM CENTRAL

10:00 AM MOUNTAIN 9:00 AM PACIFIC

Webinar Platform: Microsoft Skype

Questions or comments? Find us at:
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UP AND OVER:

IMPROVING UPSTREAM PASSAGE OF ADULT PACIFIC LAMPREY IN THE COLUMBIA RIVER BASIN

**Kinsey Frick, NOAA Fisheries
Northwest Fisheries Science Center, Seattle**

In the Pacific Northwest fish ladders designed with salmonids in mind can be ill-suited to species with different swimming capabilities. Traditional fishways and associated velocities and turbulence created by dams and irrigation diversions often present barriers to upstream spawning migration of adult Pacific lamprey (*Entosphenus tridentatus*).

In this webinar, Kinsey Frick will discuss various designs of lamprey passage structures and the types of minor structural modifications which could be used to provide adult lamprey with alternative passage routes, provide refuge within fishways, and/or passage options in locations with structural or space constraints. Examples of modifications for lamprey at both very high-head structures on the Columbia River main stem (e.g., Bonneville Dam, RKM 235) and seemingly inconsequential barriers at irrigation diversion weirs in smaller tributaries (e.g., Umatilla River) will be provided.

The Pacific lamprey provided an important source of food for the tribes of the Columbia River Basin, who prized them for their rich, fatty meat. The lamprey family is one of the oldest of all the vertebrates. Join us to learn more about the efforts to restore this unique and interesting species which is an important part of the ecosystem and our culture.

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The Joint Committee on Fisheries Engineering and Science is hosting a free webinar series as part of its mission to engage scientists and engineers on topics related to fish passage. The Committee consists of members of the American Fisheries Society Bioengineering Section (AFS-BES) and the American Society of Civil Engineers Environmental and Water Resources Institute (ASCE-EWRI). It was established in January 2011 to foster communication between the two groups, provide opportunities for engineers and biologists to share relevant knowledge and learn from one another, and to collaborate on projects related to fish passage.