

# JOINT COMMITTEE ON FISHERIES ENGINEERING AND SCIENCE



## 2016 Webinar Series



### PRESENTER BIOGRAPHY

Bjorn Lake is an engineer for NOAA Fisheries who provides technical guidance and review of fish passage projects at hydroelectric facilities across the country. Prior to joining NOAA Fisheries, he was an aquaculture extension agent in Zambia, completed his graduate studies at the University of Maine, and worked as a private consultant designing fish passage projects on the East Coast. He has reviewed, designed, and/or inspected dozens of nature-like fishways, technical fishways, and dam removal projects.

### WEBINAR INFORMATION

Date: Tuesday, September 27, 2016

Time: 12:00p EDT | 9:00a PDT

Duration: 60 Minutes

Webinar Platform: Microsoft Lync (call in number will be provided to registrants)

Please RSVP and direct any questions or comments to Erin McCombs at [fisheriesengineeringscience@gmail.com](mailto:fisheriesengineeringscience@gmail.com)

### **NATURE-LIKE FISHWAYS PRESENTED WITHIN THE CONTEXT OF A VERY SMALL AND A VERY LARGE PROJECT**

Bjorn Lake, PhD, PE  
*National Fish Passage Engineer  
Office of Habitat Conservation, NOAA  
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Nature-like fishways are a relatively new way to improve river connectivity where aquatic organism passage barriers exist. The goal of this presentation is to explain nature-like fishways within the context of two starkly different projects: the Howland Dam Bypass Channel and the Coleman Pond Rock Ramp. The Howland Dam Bypass Channel is an approximately 100+ foot wide and 1,000+ foot long natural channel circumventing a decommissioned hydroelectric dam. The Coleman Pond Rock Ramp is an approximately 10+ foot wide and 100+ foot long pool and weir fishway at a privately owned pond outlet dam. By presenting both the similarities and differences of these two projects, the audience will hopefully have a better understanding of the applicability, constraints, and nuances of nature-like fishways. Topics presented will be design approaches, construction approaches, and fish passage effectiveness.

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.