

JOINT COMMITTEE ON FISHERIES ENGINEERING AND SCIENCE



2016 Webinar Series



PRESENTER BIOGRAPHY

Rick Wantuck is the Environmental Services Branch Chief for the National Marine Fisheries Service in Santa Rosa, California. As team leader and supervisory engineer over the past 21 years, he led or contributed to numerous fish passage, fish protection, and habitat restoration projects involving feasibility studies, laboratory and field research, and project design and implementation.

WEBINAR INFORMATION

Date: Tuesday, May 24, 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

EVALUATING ALTERNATIVES FOR FISH PASSAGE AND REINTRODUCTION PLANNING AT A WATERSHED SCALE

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When considering reintroduction programs for anadromous salmon and steelhead to historic habitats made inaccessible by modern era dams, engineers and biologists need to consider fish passage alternatives and reintroduction planning on a watershed scale.

This 60 minute presentation summarizes four years of studies, sponsored by the National Marine Fisheries Service, to evaluate fish passage feasibility and potential habitat productivity in a major California watershed. Because the watershed features multiple dams and water diversions that block fish passage and impair instream flows, the studies concentrated on developing a variety of conceptual fish passage engineering approaches. In addition, fish habitat and population dynamics modeling was performed in order to compare the relative program costs versus the predicted biological benefits of implementing each particular reintroduction strategy. In the end, the engineering and biological studies were synthesized into a comprehensive reintroduction plan for spring-run Chinook salmon and steelhead.

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.