

# JOINT COMMITTEE ON FISHERIES ENGINEERING AND SCIENCE



## 2015 Webinar Series



### PRESENTER BIOGRAPHY

Chris Katopodis has extensive experience with fish passage, pioneered several ecohydraulic concepts, and results from his research are used worldwide. He has a strong background in inter- and trans-disciplinary work which integrates physical and ecological aspects, including habitat suitability, migrations, swimming ability and fish behaviour. He has worked on numerous projects throughout Canada and several other countries for over 40 years. He is well published, served as Guest Editor, is a Co-Editor for the new Journal of Ecohydraulics, and has presented invited lectures or workshops in over 20 countries.

### WEBINAR INFORMATION

Date: Tuesday, November 10, 2015

Time: 1:00p EDT | 12:00p CDT |  
11:00a MDT | 10:00a 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)

### TO PASS OR NOT TO PASS – ADVANCES AND DILEMMAS IN FISHWAY SCIENCE

Christos Katopodis, P.Eng, FCSCE  
*Katopodis Ecohydraulics Ltd.*  
*Winnipeg, Manitoba, Canada*

Fishway science has come a long way in the last 50 years; yet it still has a long way to go, as reliable and effective passage for upstream and downstream migrants is a challenge for many species and designers.

This 60-minute presentation highlights ecohydraulic advances that have enabled well-designed fishways to be effective. Progress and innovation in instrumentation, especially in tracking and observing fish in field and laboratory settings, as well as the more quantitative integration of biological and hydraulic aspects, have accelerated advances in fishway science. Yet many fishways have not been designed with adequate hydraulic and biological knowledge, and often are not effective. Research, sound interpretation and appropriate use of available information, sufficient funding for design and construction, as well as willingness to install and maintain well-designed fishways, can discourage skepticism about effectiveness and avoid dilemmas on when to provide passage or not.

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.