

Aquatic Interactions with MHK Devices

August 29, 2011

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MHK ENVIRONMENTAL WEBINAR SERIES



Development of Webinar Series:

 Subgroup of the Federal Renewable Ocean Energy Working Group

NOAA, BOEMRE, DOE, EPA

Pacific Northwest National Laboratory—
 Provides technical assistance and houses webinars within the environmental database,
 Tethys

Series Goals:

- 1. To identify gaps and priority areas for future research efforts.
- 2. To communicate ongoing studies and results.
- 3. To help inform siting and permitting efforts.



MHK ENVIRONMENTAL WEBINAR **SERIES**



Additional webinars:

- 1. Data Management, Risk Assessment, and Cumulative Effects Analysis (July 27th)
- Monitoring technologies and strategies (September 14, 1-3:30 EDT)

Webinars can be accessed at: http://mhk.pnl.gov/wiki/index.php/ July 27 2011 webinar



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History

Tethys

July 27 2011 webinar

Marine Hydrokinetic Environmental Webinar #1

Environmental Data Management, Cumulative Impacts and Ri

Emerging marine and hydrokinetic (MHK) technologies convert wa and salinity-gradient power into electricity. These technologies have many regions of the United States. In order to assure the respons developed, a number of different agencies, federal research institu and universities are working to research the potential environment impacts of MHK technologies. The Department of Energy (DOE) a federal agencies involved in reviewing, permitting, and regulating working to coordinate and collaborate on MHK environmental rese well as disseminate resulting products to other labs, federal agenc industry, and interested stakeholders. This webinar series aims to awareness of current research efforts.

The first webinar in the series, "Environmental Data Managemer Cumulative Impacts and Risk Assessment" was held on Wedne July 27. Approximately 160 participants were online for the preser The presenters, in order of appearance, were:

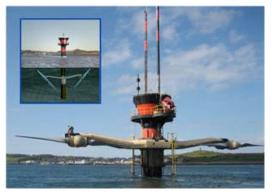
Introduction to webinar series and specific webinar topic (Ani

RESEARCH ON AQUATIC ANIMAL INTERACTION WITH MHK DEVICES



August 29, 1-3 EDT: Research on Aquatic Animal Interaction with MHK Devices – This webinar will focus on research evaluating the potential effects of interactions between MHK devices and aquatic organisms. Speakers include:

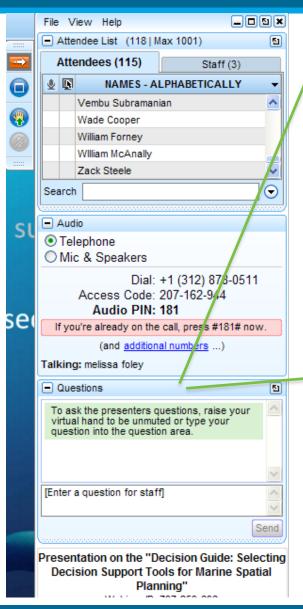
- •Evaluation of Fish Injury and Mortality Associated with Hydrokinetic Turbines (Steve Amaral, Ted Castro-Santos, and Paul Jacobson, Electric Power Research Institute)
- •An Estimation of Survival and Injury of Fish Passed Through the Hydro Green Energy Hydrokinetic System (Tim Brush, Normandeau Associates and Mark Stover, Hydro Green Energy, LLC)
- Combining ADCP and Underwater Camera to Assess Marine Species **Interactions with the Open-Centre Turbine** (Sue Barr, OpenHydro)
- •Monitoring Marine Mammals at SeaGen, the World's First Operational Commercial Scale Tidal Energy Device – 3 years post-installation (Carol Sparling, SMRU Ltd.)

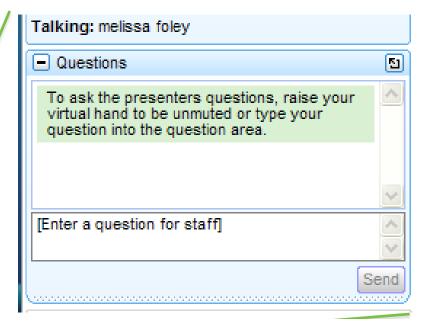






DISCUSSION PERIOD—HOW TO ASK A QUESTION





- 20 minute presentation, 5 minute Q&A following each presentation
- 10 minute Q&A at the end
- Please submit questions using the question chat feature. We will NOT be using the virtual hand raise function.
- Staff will compile questions and pose to presenters at appropriate Q&A periods.