

Session Schedule

Friday, April 3

Session 5: Fish Passage and Fish Ecology in the Northwest

Room: Gjerde Center - Main Hall (Meeting Rooms 3/4/Multi-Purpose)

Moderator: Alison Colotelo

- 8:20 **JSATS TAG DEVELOPMENT FOR JUVENILE SALMON, STURGEON, EEL, AND LAMPREY.** *Daniel Deng*, Huidong Li, Jie Xiao, Mitchell Myjak, Jun Lu, Jayson Martinez, Tom Carlson, Mark Weiland, Rich Brown, Pacific Northwest National Laboratory, Richland, WA; Brad Eppard, U.S. Army Corps of Engineers, Portland District, Portland, OR
- 8:40 **DOWNSTREAM MIGRATION OF FISH THROUGH RIVERS CONTAINING HYDROELECTRIC FACILITIES.** *Alison Colotelo*, Ryan Harnish, Geoff McMichael, Daniel Deng, Kenneth Ham, Mark Weiland, Pacific Northwest National Laboratory, Richland, WA; John Skalski, University of Washington, Seattle, WA; Brad Eppard, U.S. Army Corps of Engineers, Portland District, Portland, OR; Tim Wik, Chris Pinney, U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, WA
- 9:00 **EVALUATION OF THE FACTORS AFFECTING ROUTE OF PASSAGE AND SURVIVAL OF ACOUSTIC-TAGGED SALMONIDS AT SNAKE RIVER HYDROELECTRIC DAMS.** *Ryan Harnish*, Kenneth Ham, Alison Colotelo, Daniel Deng, Pacific Northwest National Laboratory, Richland, WA
- 9:20 **HYDROACOUSTIC EVALUATION OF JUVENILE SALMONID PASSAGE AND DISTRIBUTION AT FOSTER DAM.** *James Hughes*, Pacific Northwest National Laboratory, Richland, WA; Fenton Khan, U.S. Army Corps of Engineers, Portland, OR 97208; Jina Kim, Jose Vazquez, Pacific Northwest National Laboratory, Richland, WA; Gary Johnson, Portland, OR
- 9:40 **FISH PASSAGE AND REINTRODUCTION INTO THE UPPER COLUMBIA RIVER.** *Keith Kutchins*, Stephen Smith, Upper Columbia United Tribes, Spokane, WA
- 10:30 **WHOOSH FISH TRANSPORT SYSTEM: EVALUATION OF A NOVEL APPROACH TO MOVING LIVE FISH.** *Katie A. Wagner*, Alison H. Colotelo, Tim J. Linley, Ann L. Miracle, David R. Geist; Pacific Northwest National Laboratory, Richland, WA
- 10:50 **AUTOMATED CLASSIFICATION OF FISH EPITHELIAL DAMAGE FROM FLUORESCENT IMAGES.** *Sadie A. Mckee*, Pacific Northwest National Laboratory, Richland, WA

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- 11:10 **INVESTIGATING FALLBACK AND SURFACE PASSAGE ROUTES FOR OVERWINTERING ADULT STEELHEAD AT LOWER COLUMBIA RIVER DAMS.** *Brad Trumbo*, US Army Corps of Engineers, Walla Walla District, Walla Walla, WA
- 11:30 **ACOUSTIC TRACKING OF REDBAND TROUT (*ONCORHYNCHUS MYKISS VAR. GARDNERII*) IN LAKE ROOSEVELT, WASHINGTON.** *Jessica A. Walston*, Krisztian Magori, Allan T. Scholz, Eastern Washington University, Cheney WA
- 1:20 **STEELHEAD OUTMIGRATION IN THE WALLA WALLA RIVER BASIN, AN EXPLORATORY LOOK AT A COMPLEX SYSTEM.** *Eli Robinson*, Timothy H. Parker, Whitman College, Walla Walla, WA
- 1:40 **GENETICS AND MOVEMENT OF COLUMBIA RIVER REDBAND TROUT, *ONCORHYNCHUS MYKISS GAIRDNERI*, IN DRY CREEK, IDAHO.** *Christoph A. Walser*, Shelby Richins, Sarah Walsh, The College of Idaho, Caldwell, ID
- 2:00 **FISH PRESENCE/ABSENCE AND STREAM HABITAT IN AREAS AFFECTED BY SEDIMENT FROM MOUNT SAINT HELENS ERUPTION.** *James Hughes*, Pacific Northwest National Laboratories, Richland, WA; Fenton Khan, U.S. Army Corp of Engineers, Portland District, Portland, OR; Geoff McMichael, Evan Arntzen, Chris Vernon, Eric Fischer, Ryan Harnish, Sadie Mckee, Robert Mueller, Jose Vazquez, Pacific Northwest National Laboratories, Richland, WA
- 2:20 **2014 NWSA Student Grant Recipient Presentation**
- EVALUATING HYPOXIA-INDUCIBLE FACTOR- 1 α mRNA EXPRESSION IN A PELAGIC FISH, PACIFIC HERRING *CLUPEA PALLASII*, AS A BIOMARKER FOR HYPOXIA EXPOSURE.** *Halley E. Froehlich*, Steven B. Roberts, Timothy E. Essington, University of Washington, Seattle, WA