

Alaska Cooperative Fish and Wildlife Research Unit

• Annual Research Review •

Wednesday, April 14, 2021

Virtual Meeting

9:00 Oral Presentations

- 9:00 Opening Remarks by Jeff Falke, Unit Leader
- 9:05 In Memory of Dave Klein by Brian Barnes, Director, Institute of Arctic Biology
- 9:10 Donnie Arthur – Alaskan Yelloweye Rockfish (*Sebastes ruberrimus*) Fecundity Revealed Through an Automated Egg Count and Digital Imagery Method
- 9:30 Jason Leppi – Landscape Geomorphology and Local-Riverine Features Influence Broad Whitefish Spawning Habitat Suitability in Arctic Alaska
- 9:50 Ben Meyer – Salmon, Riparia, and Environmental Change: Implications for Management
- 10:10 Olivia Edwards – Juvenile Chinook Salmon Outmigration Timing and Fish Size in the Chena River

10:10–10:30 Break

- 10:30 Stephen Klobucar – Predicting Future Effects of Forest Fire on Aquatic Habitat Availability and Juvenile Chinook Salmon Growth in Interior Alaska
- 10:50 Helen Chmura – Making Results from the Integrated Ecosystem Model for Alaska and Northwest Canada Available for Resource Managers and Communities
- 11:10 Charlotte Gabrielsen – Evaluating Climate Connectivity for Proactive Landscape Conservation Design in Alaska and Northwest Canada
- 11:30 Matt Kynoch – Seasonal Behavioral Patterns of Canada Lynx (*Lynx canadensis*) in Arctic Alaska

11:50–12:30 Break

12:30 Unit-Sponsored Project Updates

- 12:30 Hélène Genet – Modeling Landscape Vulnerability to Thermokarst Disturbance and its Implications for Ecosystem Services in the Yukon Flats National Wildlife Refuge, Alaska (RWO 220)
- 12:35 Tuula Hollmen – Ecology and Limiting Factors of Birds Breeding along the Beaufort Sea Coast (RWO 228)
- 12:40 Elizabeth Hinkle – Effects of Wildfire Disturbance on Fish Movement, Physiology, and Genetic Relatedness (RWO 227)
- 12:45 Deanna Klobucar – Characterization of Hydrologic Regimes for Wildfire-Impacted Streams in Changing Boreal Ecosystems (RWO 227)

- 12:50 Taylor Cubbage – Physiological performance of Northern Pike (*Esox lucius*): implications for barrier design in invaded systems (RWO 223)
- 12:55 H  l  ne Genet – Wetland Carbon Assessment for Alaska (RWO 231)
- 1:00 Sebastian Zavoico – Demonstrating the Information Benefits and Data Requirements of an Integrative Population Model Analysis for Alaska Moose Management (RWO 232)
- 1:05 Gwendolyn Quigley – Monitoring Polar Bear Behavior at Barter Island, Alaska in Relation to Polar Bear Viewing (RWO 234)
- 1:10 Stephen Klobucar – Freshwater Habitat Potential for Chinook Salmon in the Yukon and Kuskokwim River Basins, Alaska (RWO 230)
- 1:15 Willie Dokai – Development of eDNA Metabarcoding Methods for Freshwater Mussels (RWO 237)
- 1:20 Yue Shi – Developing a DNA-Based Tool to Estimate the Number of Salmon Consumed by Piscivores in the Sacramento Delta (RWO 239)
- 1:25 Yue Shi – Combining Genetics, Otolith Microchemistry, and Vital Rate Estimation to Inform Restoration and Management of Fish Populations in the UMRS (RWO 240)
- 1:30 Justin Hill – Quantifying Avian Predation of Chinook Salmon in the Chena and Salcha Rivers (RWO 238)
- 1:35 Chris Sergeant – Assessing the Resilience of Southeast Alaskan Salmon to Shifting Temperature and Discharge Regimes Using a Life-cycle Perspective Coupled with Community-based Monitoring
- 1:40 Additional Q&A

1:45–2:00 Break

2:00 Cooperators' Business Meeting

Meeting Zoom Link:

Topic: 2021 AKCFWRU Annual Research Review and Cooperators Meeting

Time: Apr 14, 2021 09:00 AM Alaska

Join Zoom Meeting

<https://alaska.zoom.us/j/81908615359?pwd=NG5RVnJYdGZTOHVlUTdaSVpON3pmUT09>

Meeting ID: 819 0861 5359

Passcode: 149659

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