Technical Session Schedule – Tuesday AM

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|  | **Contributed talks: Freshwater Ecology** |  |
|  | **Gateway Hotel Event Center****Chair: William T. Samuel** |  |
| 10:30 AM | Biomagnification of mercury in Lake Trout *Salvelinus namaycush* food webs**Sarah Laske** |  |
| 10:45 AM | Northern Pike Suppression Efforts on Shell, Whiskey, Hewitt & Chelatna lakes. **Emily Heale** |  |
| 11:00 AM | Salmon declines coincide with climate mediated increases in consumption by a novel predator**Benjamin Rich\*** |  |
| 11:15 AM | Hydropower in Alaska: Creating Energy and Mitigating Risks for Fish**Leah Ellis** |  |
| 11:30 AM | An overview of beaver effects on fish in Alaska**William T. Samuel** |  |
| 11:45 AM | LUNCH BREAK |

 **\***- Student Award Presentation **†**- Short talk

Technical Session Schedule – Tuesday PM

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|  | **Contributed talks:** **Spatial distribution and movement of salmon and trout** | **Contribute talks:** **Community and tribal fisheries knowledge, management, and research** |
|  | **Gateway Hotel Event Center****Chair: Taylor Cubbage** | **Gateway Hotel Event Center****Chair: Kristen Reece** |
| 1:30 PM | Run Timing and Spawning Distribution of Copper River Chinook Salmon**Matt Piché** |  |
| 1:45 PM | Habitats occupied by Chinook salmon in the Gulf of Alaska and in the U.S. Navy’s Temporary Maritime Activities Areas **Andrew C. Seitz** |  |
| 2:00 PM | Coastal Cutthroat Trout: The Phantom of Prince William Sound**Taylor Cubbage**  |  |
| 2:15 PM | Pacific salmon in Alaska's Arctic:Old wine in new bottle?**Peter Westley** |  |
| 2:30 PM | COFFEE BREAK |
| 3:30 PM |  | Community-based Mapping of Salmon Habitat in the Kenai Peninsula Borough, Alaska **Benjamin Meyer** |
| 3:45 PM |  | Engaging Rural Communities in Critical Habitat Data Collection: Fish Map App **Nyssa Russell** |
| 4:00 PM |  | Unveiling Over a Century of Tribally-Led Sockeye Salmon Escapement with the Native Village of Nanwalek **Madeline Lee†** |
| 4:08 PM |  | Collaboration between Yukon First Nations and a Biological Consulting Company**Petra Szekeres** |
| 4:23 PM |  | Nanutset qit’a ideshni “We Understand Our History”: Historical Analysis of Dena’ina Dispossession and Resiliency in Tikahtnu (Cook Inlet) and Kahtnu (Kenai River) Fisheries **Nicholas Jacuk\*** |
| 4:45 PM5:15 PM | Film Showing: Science Education Through an Indigenous Lens Length: 30 minutes**Court Pegus** |

 **\***-Student Award Presentation **†**- short talk

Technical Session Schedule – Wednesday AM

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|  | **Western Alaska Salmon** | **Groundfish in Alaska** |
|  | **Gateway Hotel Event Center****Chair: Rebecca Shaftel** | **Breeze Inn Mt. Alice Room****Chair: Jan M. Rumble** |
| 8:30 AM | The Gravel-to-Gravel Keystone Initiative: Investments in stream habitat restoration and partnerships to create a more resilient future for salmon **Rebecca Shaftel** | The Complexities of Lingcod Management in Southeast Alaska**Alexandra R. McCarrel†** |
| 8:45 AM | Restoring salmon habitat in Coal Creek, Yukon-Charley Rivers National Preserve, as part of the Gravel-to-Gravel Keystone Initiative**Trey Simmons** | Characterizing Pacific Halibut Movements Within the Bering Sea**Austin J. Flanigan\*** |
| 9:00 AM | Leveraging lessons learned on placer mined landscapes to springboard stream restoration in support of the new Gravel to Gravel Keystone Initiative **Matthew S. Varner** | Multi-species analysis of geochemical biomarkers suggests island group compartmentalization of Aleutian Island marine ecosystems**Scott D. Chandler\*** |
| 9:15 AM | Divergent responses of western Alaska salmon to a changing climate **Erik R. Schoen** | What forage-size fish should a predator consume in the nearshore Beaufort Sea?**Ashley E. Stanek** |
| 9:30 AM | COFFEE BREAK |
| 10:30 AM | Genetic stock composition of chum salmon harvested in commercial salmon fisheries of the South Alaska Peninsula**Sara Gilk-Baumer** | ADF&G Statewide Rockfish Initiative – The Next Chapter**Jan M. Rumble** |
| 10:45 AM | Western Alaska Chinook salmon heat stress assessment during and after summer 2019 heatwave**Vanessa R. von Biela** | The fish that saw the 20th Century – A 121 year old yelloweye rockfish**Aaron P. Baldwin** |
| 11:00 AM | Blood-based biomarkers of cardiac health in Pacific salmon**Morag Clinton** | Deepsea Packraft Fishing in Alaska: A budding artisanal fishery or just abnormal?**Charles N. Cathcart** |
| 11:15 AM | Heartbeat of the Yukon: Examining Ichthyophoniasis in Chinook Salmon cardiac tissue and potential link to en route mortality**Keith D. Herron\*** |  |
| 11:30 AM | Comparison of qPCR, histology, and explant culture for assessing Ichthyophonus infection in Yukon Chinook salmon**Jayde Ferguson** |  |
| 11:45 AM | Linking Climate and Early Life History to Recruitment of Yukon River Chum Salmon**Maranda Peterson\*†** |  |
| 11:53 AM | Reconstructing migratory histories and age of Chinook salmon from the Yukon River and northern Bering Sea with oxygen isotopes and trace elements in otoliths.**James M. Murphy** |  |

 **\***-Student Award Presentation **†**- Short talk

Technical Session Schedule – Wednesday PM

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|  | **Changing Shellfish Fisheries in Alaska** | **Fisheries Genomics: Forging Fisheries Solutions using the Building Block of Life** |
|  | **Gateway Hotel Event Center****Chair: Jan M. Rumble** | **Breeze Inn Mt. Alice Room****Chair: Jessica R. Glass** |
| 1:30 PM | Building a spatially explicit framework to quantify the role of predation and climate change on the collapse of snow crab in the Bering Sea**Samuel Comeau\*†** | Leveraging eDNA Metabarcoding for Fish Biodiversity Assessment in Kachemak Bay, Alaska**Maris R. Goodwin\*†** |
| 1:38 PM | Highs and Lows! – Managing the Southeast Alaska Golden King Crab Fishery**Adam J. Messmer** | Macroinvertebrate diversity in burned and unburned streams measured using eDNA**Jeffrey D. Muehlbauer** |
| 1:53 PM | Changes through the Years - Southeast Commercial Tanner Crab Management and Stock Assessment**Tessa L. Bergmann** | Novel passive eDNA device enables cost-effective aquatic biodiversity monitoring**Jessica R. Glass** |
| 2:08 PM | Evaluation of Paralytic Shellfish Toxins in Subsistence Harvested Sea Otters**Emily S. Mailman\*†** | A molecular showdown in eDNA quantification: dPCR or qPCR? **Maggie A.B. Harings\*†** |
| 2:30 PM | COFFEE BREAK |
| 3:30 PM | East Cook Inlet Razor Clam Trends in Natural Mortality and Recruitment During the Sport Fishery Closure **Holly I. Dickson** | An updated coastwide baseline for genetic stock identification of chum salmon:a key resource for examining stock-specific marine migration and harvest**Andy Barclay** |
| 3:45 PM | Annual Growth of Cook Inlet Razor Clams **Danielle Siegert** | Evaluating the effects of hatchery supplementation on the second generation of a sockeye salmon population**Mary E. Commins\*†** |
| See talk- specific times | “Weak meat” condition of Alaska weathervane scallops**Jayde Ferguson** (4:00 PM) | Whole genome sequencing contextualizes mito-nuclear discordance in Pacific herring**Laura E. Timm** (3:53 PM) |
| Estimate abundance and special distribution of the Giant Red Sea Cumber (*Apostichopus californicus*) in Prince William Sound**Benjamin Wilkins\*** (4:15 PM) | Genomic population structure of Pacific Herring in the eastern Bering Sea**Sydney A. Almgren\*†** (4:08 PM) |
|  | **Contributed Talks:** **Alaska Kelp and Mariculture Science** | Population Structure of Pacific Herring in the Bering Sea and Gulf of Alaska**Isabelle Nicolier\*** (4:16 PM) |
|  | Gateway Hotel Event CenterChair: TBD |  |
| 4:30 PM | Spatial and temporal variability of carbohydrate composition in cultivated Alaskan kelp in **Cameron Jardell\*†** |  |
| 4:38 PM | Control of farmed bull kelp biomass via novel seeding and cultivation approaches**Tiffany Stephens** |  |

 **\***- Student Award Presentation **†**- Short talk

Technical Session Schedule – Thursday PM

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|  | **Celebrating success and looking towards the future: The next decade of stream and lake temperature research and management in Alaska** |  |
|  | **Gateway Hotel Event Center****Chair: Erin Larson** |  |
| 1:30 PM | Overwintering Habits and Habitat of Arctic Grayling **Lisa Stuby** |  |
| 1:45PM | Patterns of Aquatic Insect Emergence in Warm and Cold Urban Streams in Anchorage**Molly Legg** |  |
| 2:00 PM | Spatial and decadal-scale temporal changes in water chemistry and macroinvertebrates in central Alaska**Caleb J. Robbins** |  |
| 2:15 PM | Grow with the Flow: Influence of Hydrologic Mosaics on Juvenile Salmon Growth in Proglacial Watersheds**Lindsey C. McCulloch\*** |  |
| 2:30 PM | COFFEE BREAK |  |
| 3:30 PM | Exploring climate change impacts on juvenile sockeye salmon and threespine stickleback in Iliamna Lake, AK.**Elena Eberhardt\*†** |  |
| 3:38 PM | Loss of meltwater from glaciers and snowpack will increase synchrony of river habitats and resources in Southeast Alaska**Matt Dunkle** |  |
| 3:53 PM | **Panel Discussion** |  |
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| 4:45 PM |

 **\***-Student Award Presentation **†**- Short talk