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Schedule At a Glance

Monday (6/26):

6:00 PM – 10:00 PM: Barbeque at Kristin Armstrong Municipal Park (500 S Walnut St, Boise, ID 83712) next to the IDFG Headquarters' office; Food and drink (Beer/wine/non-alcoholic beverages) will be provided

Tuesday (6/27):

6:30 AM – 8:00 AM: Breakfast at the Grove Hotel (provided)

8:00 AM – 12:00 PM: Meeting/talks at the Grove Hotel

12:00 PM – 1:00 PM: Lunch at the Grove Hotel (provided)

1:00 PM – 5:20 PM: Meeting/talks at the Grove Hotel

3:00 PM – 6:00 PM: Poster setup for presenters

6:00 PM – 9:00 PM: Poster session and Trade show (cash/credit bar available, hors d'oeuvres provided)

Wednesday (6/28):

6:30 AM – 8:00 AM: Breakfast at the Grove Hotel (provided)

8:00 AM – 12:05 PM: Meeting/talks at the Grove Hotel

12:05 PM – 1:00 PM: Lunch at the Grove Hotel (provided)

1:00 PM – 2:15 PM: Breakout sessions (Topics: Development of Bull Trout baseline; Revised Chinook SNP baseline)

2:15 PM - 5:20 PM: Meeting/talks at the Grove Hotel

6:00 PM – 10:00 PM: Social at Meriwether Cider House (224 N 9th St, Boise, ID 83702; Cash/credit bar available, hors d'oeuvres provided)

Thursday (6/29):

6:30 AM – 8:00 AM: Breakfast at the Grove Hotel (provided)

8:00 AM – 12:00 PM: Meeting/talks at the Grove Hotel

1:00 PM – 6:00 PM: Rafting float trip down the main Payette River

Registration Desk Open: Tues & Weds 6:30 AM – 5:00 PM; Thurs 6:30 AM – 12:00 PM

Detailed Meeting Schedule

Monday (6/26) Evening

6:00 – 10:00: Barbeque at Kristin Armstrong Municipal Park (500 S Walnut St, Boise, ID 83712) next to the IDFG Headquarters' office; Food and drink (Beer/wine/non-alcoholic beverages) will be provided

Tuesday (6/27) Morning

- 6:30 Breakfast at Grove Hotel (buffet-style; open until 8:00)
- 8:00 Introduction to the meeting (Matt Campbell/Shawn Narum)
- 8:10 Fred Utter memorial talk (led by Robin Waples)

Session 1 begins: Mixed stock analyses and parentage-based tagging with genetic markers

- 8:30 Paul Moran: Genetic research, monitoring, and evaluation in US West Coast fishery management and the conservation of protected marine resources
- 8:50 John Hargrove: Efficient population representation with more genetic markers increases performance of a genetic stock identification baseline
- 9:10 Devon Pearse: Genetic parentage reveals the (un)natural history of central valley hatchery steelhead
- 9:30 Jon Hess: Visual and genetic stock identification of a test fishery forecast Columbia River spring Chinook stocks 2 weeks into the future
- 9:50 Eric Rondeau: Parentage-based tagging at-scale: Applications in Canadian mixed-stock fisheries and broodstock monitoring
- 10:10 Break
- 10:25 Ryan Whitmore: Using terminal genetic stock identification (GSI) and upriver mark-recapture to estimate total systemwide escapement of Pacific salmon
- 10:45 Yingxin Su: Conservation of the Paiute cutthroat trout: discovering genetic markers to monitor multiple refuge populations and translocations
- 11:05 Sam Rosenbaum: Reliability of trans-generational genetic mark-recapture (tGMR) for enumerating Pacific salmon
- 11:25 Kyle Shedd: Status and future plans for coastwide genetic baselines used by ADF&G
- 11:45 Sponsor talk AgriPlex: The Chinook Salmon Grandparentage PlexSeq SNP Panel

Tuesday (6/27) Afternoon

- 12:00 Lunch at Grove Hotel
- 1:00 Bobby Hsu: Harnessing the power of regional baselines for broad-scale genetic stock identification: A multistage, integrated, and cost-effective approach
- 1:20 Sara Gilk-Baumer: Genotyping at sea informs in-season fisheries management in real-time
- 1:40 Emily Schwabe: Frequency and fitness consequences of close-kin inbreeding in wild Sockeye salmon populations
- 2:00 Patrick Barry: Spatiotemporal dynamics of Chum salmon bycatch in the Bering Sea
- 2:20 Mariah Meek: The Fast and the Fishy: Advancements in genomic run identification for Chinook Salmon Management in the Central Valley
- 2:40 Erin E. Collins: Evaluating intraspecific diversity in Central Valley Chinook salmon over the past 20 years
- 3:00 Break

Session 2 begins: Phylogenomic studies testing relationships among taxa

- 3:15 Nathan J. C. Backenstose: Historical demography and population genomics of adaptive radiations in Great Lakes salmonids
- 3:35 Aja Tengstedt: Genomic insights into the demographic history and conservation status of Danish whitefish (*coregonus* spp.) populations
- 3:55 Zachary Robinson: Efficient species identification for large-scale Pacific salmon genetic monitoring programs
- 4:15 Remi Murdoch: Back to the future: 2,000 years of Skagit River Salmonidae species and life-history diversity
- 4:35 Daniel Bingham: High genetic differentiation in three Salmonid species from the Skagit River hydroelectric project area, Washington, USA
- 4:55 Sponsor talk GTseek
- 5:10 *Sponsor talk* Standard BioTools: Molecular Testing in Aquaculture: solve common and complex issues with the X9TM system

Tuesday (6/27) Evening

6:00 – 9:00: Poster session and Trade show (cash/credit bar available, hors d'oeuvres provided)

Meggan Alston: Understanding Yellowstone cutthroat trout hybridization and connectivity within the Teton river system, a combined genomics and modeling approach (poster #1)

Gavin Bandy: Using a foreign DNA tracer to calibrate natural environmental DNA signals of coho salmon (*Oncorhynchus kisutch*) in small streams (poster #2)

Scott Blankenship: The importance of place; Fish diversity observed using DNA metabarcoding (poster #3)

Jacqueline Bridegum: Comparing eDNA and juvenile salmon trap passage estimates on the Sacramento River (poster #4)

Matthew C. Hale: Characterization of the significance and distribution of a large chromosomal inversion in native populations of rainbow trout (poster #5)

Nick F. Hoffman: Genome-wide association study for precocious maturation of two-year-old male spring Chinook Salmon (*Oncorhynchus tshawytscha*) (poster #6)

Rebekah L. Horn: Utility of parentage-based tagging for monitoring Coho salmon (*Oncorhynchus kisutch*) in the interior Columbia River basin (poster #7)

Dylan Keel: Effects of depth, distance to shore, and water velocity on organismal and extraorganismal environmental DNA concentrations in a large river (poster #8)

Janet L. Loxterman: Evolutionary diversification of rainbow trout from Western North America (poster #9)

Angela Phung: DNA sampling of smolts improves early estimates of adult sockeye returns for fisheries management (poster #10)

Jeff J Stephenson: Reproductive success of reconditioned kelt steelhead in the Yakima River Basin (poster #11)

Craig Wells: Assessing population structure and hatchery introgression within Skagit River Basin *Oncorhynchus mykiss* (poster #12)

Stuart Willis: Analysis of iteroparous spawning phenology in steelhead trout (*Oncorhynchus mykiss*) using low-coverage whole genomic resequencing (poster #13)

Wednesday (6/28) Morning

6:30 – Breakfast at Grove Hotel (buffet-style; open until 8:00)

Session 3 begins: Identification and validation of adaptive variation from whole genome/genome-wide approaches

- 8:00 Audrey Harris: Temporal shifts in adaptive haplotypes associated with age-at-maturity in Dworshak National Fish Hatchery steelhead
- 8:20 Garrett McKinney: Y-chromosome haplotype diversity and male age at maturity in Chinook salmon
- 8:40 Catherine Clare: Comparative genomics of rainbow trout (*Oncorhynchus mykiss*): Is the genetic architecture of migratory behavior conserved among populations?
- 9:00 Michael Phelps: Applying genome editing technology to advance salmon functional genomics and conservation
- 9:20 Morgan Sparks: A large, recently evolved supergene facilitates rapid adaptation of an introduced fish
- 9:40 Wes Larson: Is structural variation necessary to create islands of divergence in moderate gene flow species? A case study in sockeye salmon
- 10:00 Break
- 10:15 Samuel May: Genetic variation underlying dispersal in Sockeye salmon
- 10:35 R. Paul Evans: A cutthroat trout chromosome-level genome assembly, transcriptomes, and low-coverage whole genome sequencing
- 10:55 Christopher Setzke: Haplotype association analyses for fine-mapping of QTLs for IHNV resistance in two commercial lines of rainbow trout
- 11:15 Alexandra Fraik: The genomics of an isolated lake bull trout population in Idaho
- 11:35 Sara Hugentobler: Understanding Chinook salmon life history variation in the Yuba River, California
- 11:55 Sponsor talk Illumina: Trends in Applications with Illumina Sequencing

Wednesday (6/28) Afternoon

- 12:05 Lunch at Grove Hotel
- 1:00 Break out sessions: Development of Bull Trout baseline (Ivy room); Revised Chinook SNP baseline (Evergreen room)

- 2:15 Shawn Narum: Genetic variation associated with migration timing in lineages of Chinook salmon and steelhead in the Columbia River Basin
- 2:45 Rebekah Horn: Whole genome re-sequencing of Chinook salmon to estimate standing variation across populations
- 3:05 Tasha Thompson: A range-wide catalog of whole genomes reveals broad importance and complexity of GREB1L
- 3:25 Break
- 3:40 Stuart Willis: Contrasting patterns of sequence variation in steelhead populations reflect distinct evolutionary processes
- 4:00 Krista Nichols: The genomics of the re-establishing summer and winter steelhead in the Elwha River following large scale dam removal

Session 4 begins: Genetic effects of fish management

- 4:20 Megan McPhee: Experimental integrated sockeye salmon enhancement reveals demographic benefits but phenotypic costs
- 4:40 Kathleen O'Malley: A single generation in the wild increases fitness for descendants of hatchery Chinook salmon (*Oncorhynchus tshawytscha*)
- 5:00 Sponsor talk Pac-Bio
- 5:10 Sponsor talk Twist BioScience

Wednesday (6/28) Evening

6:00 – 10:00: Social at Meriwether Cider House (224 N 9th St, Boise, ID 83702; Cash/credit bar available, hors d'oeuvres provided)

Thursday (6/29) Morning

- 6:30 Breakfast at Grove Hotel (buffet-style; open until 8:00)
- 8:00 Hayley Nuetzel: The progression of naturalization: Using parentage-based tagging to monitor the reintroduction of spring Chinook salmon to Lookingglass Creek, OR
- 8:20 Natasha Howe: Genomic evidence for domestication selection in three hatchery populations of Chinook salmon, *Oncorhynchus tshawytscha*
- 8:40 Ilana Koch: A current review of epigenetic effects associated with salmonid supplementation and domestication
- 9:00 Scott Blankenship: Observed effects of habitat restoration on juvenile Chinook Salmon recruitment rates using parentage methods
- 9:20 Travis Seaborn: Comparative riverscape genetics of Elwha River salmonid species and life-history forms following dam removal
- 9:40 William Rosenthal: Hybridization decreases native Cutthroat Trout reproductive fitness
- 10:00 Break
- 10:15 Rebecca Smith: Southern Appalachian Brook Trout Reintroductions: Does Genetics matter?
- 10:35 Steven Mussmann: Genetic evaluation of trojan YY brook trout treatments in New Mexico during 2019-2022

Session 5 begins: Applications of eDNA and metabarcoding

- 10:55 Andrew P Kinziger: Using environmental DNA in water samples to monitor the distribution and abundance of salmonids
- 11:05 Diana Baetscher: Dispersal of salmon eDNA from net pens in nearshore Southeast Alaska
- 11:25 Gregory Schumer: Calibrating eDNA sampling strategies for monitoring endemic salmonids in Western US drought-stricken ecosystems
- 11:45 Closing remarks

Thursday (6/29) Afternoon

1:00 PM - 6:00 PM: Rafting float trip down the main Payette River (meet at Grove Hotel for roundtrip transportation)

