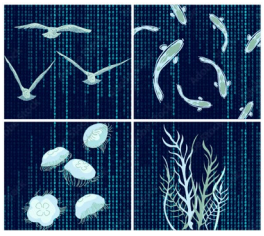
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Emerging Technologies Information Sessions

AGENDA Day 1

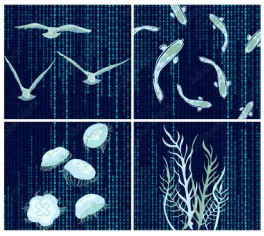


9:00 AM	**Training/ Workshop** Genetics 101 for Fisheries Professionals	**Audrey Harris** (PSMFC/ IDFG), **Rebekah Horn** (CRITFC)
12:00 PM	**Check-in Registration**	
1:00 PM	Welcome/Orientation	
1:10 PM	**Plenary** Conservation technology and innovative approaches for fisheries and ecosystem monitoring	**Scott Heppell** (Oregon State University)
	Data QA/QC Session	
1:40 PM	Transparent management inputs – data workflows incorporating GitHub	**Erik Suring** (ODFW)
2:00 PM	OXBOW: Wrangling Fish and Environmental Data into a Single SQL Database Using Advanced Claude Models	**Derrek Faber** (ODFW)
2:20 PM	The Data Mindful PDF: How to Make Table-filled Reports More Useful	**Brian Maschhoff** (Salmonetics)
2:40 PM	Automating salmon counting and identification with computer-vision deep learning	**Dr. William I. Atlas**; Sami Ma, Charles Xu, Henry Fang, Thor Veen (Wild Salmon Center; Salmon Vision Collaborative)
3:00 PM	**Break**	
	Data QA/QC Continued	
	Developing a Fish Age Database: Lessons Learned & Future	
3:40 PM	Structuring Knowledge, Not Just Data: An Ontology Framework for Comparable, Reproducible Conservation Indicators	**Elizabeth Ng**, Erika Rubenson, Sam Haffey (Spheros Environmental)
4:00 PM	Using Manual Text Annotation and Machine-learning-assisted Natural Language Processing (NLP) to Extract, Classify, and Compare Conservation Actions and Strategies Across Management Plans	**Jacob Usinowicz**, Michelle Stantial, Lauren Kemper, Erika Rubenson, Elizabeth Ng (Spheros Environmental)
4:20 PM	Modernizing Spawning Ground Surveys with Mobile Technologies: Joint Insights from Oregon and Idaho on Survey123 Design, Deployment, and Field Application	**Kasey Bliesner**, Joseph Feldhaus, Melody Feden, Joe Dittmer, Alex Woolen, Erik Suring, Briana Sounhein, Matt Weeber (ODFW) **Evan Brown**, Megan Merkley, Bryan Boson, Chris Harrington, Brock Lipple (IDFG)
4:40 PM	Additional Q&A	
4:50 PM	**Break**	
5:00 PM	**Poster Session and Exhibitor Spotlight** Reception in Stevenson Ballroom with appetizers and no-host bar	
7:00 PM	**Adjourn**	

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Emerging Technologies Information Sessions

AGENDA Day 2

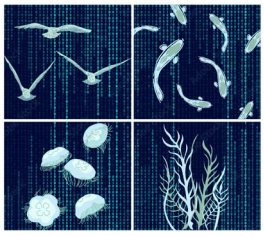


7:40 AM	**Breakfast**	
8:40 AM	Orientation for Day 2	
	Tagging and Trapping Tech Session	
8:50 AM	A Self-Powered Acoustic Transmitter for Long-Term Fish Movement Monitoring	**Daniel Deng**, Huidong Li, Jun Lu, Hyunjun Jung, Zhaocheng Lu, Bingbin Wu, Stephanie Larson (Pacific Northwest National Laboratory)
9:10 AM	Tracking Ocean Migration Routes of Steelhead Using Pop Up Satellite Archival Tags (PSATs)	**Matthew Thornton**, Ryan Solee (The Wilderness Calling Conservation Initiative)
9:30 AM	SMART -Dart(TM): Development and Feasibility Testing of a Novel RFID Fish Tagging System for Enhanced Detection and Monitoring	**Keith van den Broek**, Stine Griep (Hinchinbrook, Inc.)
9:50 AM	Tiny Tags, Big Results: Using FRyID™ RFID Technology to Study Early Life-Stage Salmonids	**Stine Griep**, Keith van den Broek (Hinchinbrook, Inc.)
1010 AM	Additional Q&A	
10:20 AM	**Break**	
	Predictive Modeling and More Session	
10:40 AM	Proof of Concept: Stocking YY-males to Eradicate Brook Trout in a Closed Population	**Brian Davis**, Jen Poirier (US FWS)
11:00 AM	Evolving Ecosystem Diagnosis & Treatment: Integrating Monitoring Data to Advance Adaptive Salmon Recovery Planning	**Laura McMullen** (ICF)
11:20 AM	Integrating Ecosystem Models with Long-Term Monitoring to Support Salmon Recovery	**Eric Doyle** (Confluence Environmental Company), John Arterburn, Ryan Klett (Confederated Tribes of the Colville Reservation)
11:40 AM	Investigating precision and bias of commonly used salmonid abundance survey methods	**Brian McGreal**, William Jaeger, Mark Scheuerell (University of Washington)
12:00 PM	**Lunch**	

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Emerging Technologies Information Sessions

AGENDA Day 2 Continued

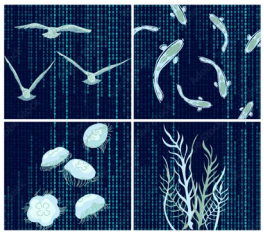


	Remote Sensing Session	
1:30 PM	Advancing Habitat Monitoring with Bathymetric LiDAR in the Methow Basin	**Ryan Klett** (Confederated Tribes of the Colville Reservation)
1:50 PM	Wetland Vegetation Modeling with UAV Lidar & Multispectral Data for Habitat Monitoring	**Katarina Lunde** (Lower Columbia Estuary Partnership)
2:10 PM	Leveraging UAV Lidar Data in Wetland Habitat Monitoring	**Derek Marquis** (Lower Columbia Estuary Partnership)
2:30 PM	3D Characterization of Streambank Complexity from UAS Surveys	**Jen O'Neal**, Shawn Higgins (Natural Systems Design)
2:50 PM	Integrating UAV and Ground Surveys to Monitor Redd Superimposition of Tule Fall Chinook in the White Salmon River, WA	**Justin Baker**, Rikeem Sholes, David Hand (US FWS)
3:10 PM	Additional Q&A	
3:20 PM	**Break**	
	Genetics (eDNA, PBT, etc.) Session	
3:40 PM	Implementation of a mobile DNA sequencing laboratory for real-time assessment of Columbia River basin fisheries	**Lanie Galland**, Shawn Narum (Columbia River Inter-Tribal Fish Commission)
4:00 PM	Can Metabarcoding of Aquatic eDNA Replace Traditional Biological Assessments in Streams and Rivers?	**Daren Carlisle**, Karen Beaulieu, Yer Lor, David Pilliod, Stephen Spear, Paul Frandsen, Chuck Hawkins (USGS)
4:20 PM	Environmental DNA as a Tool for Aquatic Pathogen Surveillance: From Detection to Population Health Inference	**Corbin J. Schuster**, Bailey Morgan, Tamsen Polley, Michael Kent (Oregon State University)
4:40 PM	Mapping Washington's Aquatic Biodiversity Using Environmental DNA	**Allison Ying** (WDFW)
5:00 PM	**Adjourn**	

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Emerging Technologies Information Sessions

AGENDA Day 3



7:30 AM	**Breakfast**	
8:30 AM	Orientation for Day 3	
	Best Practices – Survival and Competition Analysis Session	
8:40 AM	Incremental improvements in RFID technology leads to major gains	**Nicholas J. Porter.** (Biomark)
9:00 AM	Incorporating angler perspectives and ecological evidence to inform management of non-native fish interactions with native Yellowstone Cutthroat Trout in the Teton River Basin, Idaho	**Lucas Ellingson-Cosenza**, Colden Baxter, Morey Burnham (Idaho State University)
9:20 AM	Finding the Bottlenecks: Stage-Specific Survival of Juvenile Chinook Across Eastern Vancouver Island	**Sam James**, Jamieson Atkinson, Will Duguid, Nicole Hill, Joe Thorley, Katie Innes, Thomas Negrin, Cypress Hunder-Rookes, Isobel Pearsall (Pacific Salmon Foundation)
9:40 AM	Additional Q & A	
9:50 AM	**Break**	
	AI and Machine Learning Session	
10:10 AM	Replacing the Clipboard: Computer Vision for Scalable, Continuous Recreational Salmon Catch Monitoring in the Strait of Georgia	**Jamieson Atkinson**, Sami Ma, Philip Lemp, Sam James, Riya Shaju, Matthew Clarke, Jiangchuan Liu (Pacific Salmon Foundation)
10:30 AM	Applying Machine Learning to Learn from Fish Returning to the Klamath River After Dam Removal	**Michael Hobley**, Damon Goodman (CalTech and CalTrout)
10:50 AM	Advancing AI-Assisted Fish Counting in the Columbia River Basin Using BlueFish	**Elliot Koontz** (Spheros Environmental)
11:10 AM	AI-Enabled, Uncertainty-Aware 3D Tracking for Acoustic Telemetry in Ecological Monitoring	**Daniel Deng**, Wenqian Chen, Tao Fu, Jayson Martinez, Adam Hall (Pacific Northwest National Laboratory)
11:30 AM	Additional Q&A	
11:40 AM	Closing Remarks	
11:50 AM	**Lunch/Adjourn**	
1:30 PM	**Field Trip** Mobile Genetics Lab - Oxbow Fish Hatchery in Cascade Locks, Oregon	**Lanie Galland**, **Shawn Narum** (Columbia River Inter-Tribal Fish Commission)