

AMERICAN FISHERIES SOCIETY  
**153rd Annual Meeting**

AUGUST 20-24, 2023 | GRAND RAPIDS, MICHIGAN



ADAPTIVE APPROACHES TO UNDERSTAND  
AND MANAGE CHANGES IN FISHERIES

## Monday, August 21, 2023

	Grand Gallery A	Grand Gallery B	Grand Gallery C	Grand Gallery D	Grand Gallery E
	<b>Rivers: Flow and Hydropower Consideration and Tools</b>	<b>Introduced and Invasive Species: Monitoring, Management, and Ecology Day 1</b>	<b>Highlighting the Cutting Edge: Graduate and Early Career Research in Genetics-Genomics</b>	<b>Adaptive management and reform of hatchery programs for fisheries enhancement and conservation</b>	<b>Biology, ecology, and management of Esox spp. in changing environments</b>
8:00 AM	Building a national-scale dataset of fish passage infrastructure at US hydropower facilities Matson, Paul		Discovering Genetic Markers to Monitor Multiple Populations of Paiute Cutthroat Trout Su, Yingxin	Understanding Socioecological Systems by Applying Adaptive Management to Stock Enhancement Camp, Edward	St. Lawrence River Esocid Conservation at the Thousand Islands Biological Station Farrell, John
8:20 AM	DOE Water Power Technologies Office Fish Passage and Sustainable Hydropower Overview McCoskey, Dana	Fallacies in Invasive Species Information Wright, Asa	Evaluating the evolutionary effects of fish stocking in an imperiled trout Rosenthal, William	Steelhead Kelt Reconditioning and Reproductive Success Studies in the Columbia River Basin Hatch, Doug	
8:40 AM	Energy flexibility-environment tradeoff toolkit for hydropower environmental and operational flows Pracheil, Brenda	Going Where And When No One Had Gone Before: An Emerging Need Jude, David	Harnessing genomic techniques to inform conservation of the Lahontan cutthroat trout Luzzio, Alana	Post-release monitoring in estuarine systems to promote adaptive release strategies Schloesser, Ryan	Understanding and managing a declining coastal pike (Esox lucius) stock in Germany Arlinghaus, Robert
9:00 AM	Responses of Riverine Biota in Isolated Pools during Reduced Stream Flow Mitchell, Zachary	Exploring Niche Dynamics can Improve Model Calibration and Management for Non-native Species Jan, Arif	Evaluating intraspecific diversity in Central Valley Chinook salmon over 20 years Collins, Erin	Stocking Spatial Planning: Examining Trade-offs in Largemouth Bass Recreational Fisheries Systems Perry, Diana	Muskellunge Spawning Habitat and Availability in Green Bay, Lake Michigan Isermann, Daniel
9:20 AM	Role of flow, environmental and anthropogenic factors on fish biodiversity Mruzek, Joseph	Predicting freshwater fish invasion hotspots by combining habitat suitability and climate match Yu, Hao	Quantifying The Molecular Effects Of Microplastics Exposure On Fathead Minnows (Pimephales promelas) Wade, Miranda	Advancing Hatchery Science: Lessons from the Oregon Hatchery Research Center White, Seth	Seasonal Movement Ecology of Northern Pike using Acoustic Telemetry in Green Bay Swindall, Sadie
	<b>Morning Break</b>				Assessment of Trout and Muskellunge Populations to Address Angler Conflict Johnson, Jennifer
9:40 AM	<b>Plenary Session</b>				"To fish or not to fish?" - Synopsis of warm-water muskellunge mortality studies Bauerlien, Cory
10:00 AM	<b>Plenary Session</b>				
10:20 AM	<b>Plenary Session</b>				
12:00 PM	<b>Lunch</b>				

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	Should they stay or should they go? Managing dams as agencies	Introduced and Invasive Species: Monitoring, Management, and Ecology Day 1	Highlighting the Cutting Edge: Graduate and Early Career Research in Genetics-Genomics	Adaptive management and reform of hatchery programs for fisheries enhancement and conservation	Biology, ecology, and management of <i>Esox</i> spp. in changing environments
1:20 PM	Michigan DNR Fisheries Division evaluates dams leading to successful grant for removal Castle, Dana	America's most wanted fishes: Aggregating risk assessments to combat invasive species Dean, Emily	DNA metabarcoding unveils the complex and hidden shark species diversity in shark jelly Lee, Hung-Tai	Adding habitats beats adding fish: a replicated BACI whole-lake experiment Arlinghaus, Robert	Influence of Behavioral Types on Bait Selectivity in Recreational Fisheries of Pike. Lucas, Jorrit
1:40 PM	Identifying and prioritizing lowermost barriers to sea lamprey in the Great Lakes Hrodey, Pete	Future aquatic invaders of the Northeast U.S. Daniel, Wesley	Genome-wide differences between drowned river mouth and main-basin Lake Michigan Yellow Perch Euclide, Peter	Smoltification Strategies: Managing a Unique Feature of Salmonid Biology in Hatcheries Trushenski, Jesse	Evaluation of Cannibalism During Hatchery Rearing of Tiger Muskellunge Crosses ( <i>Esox lucius</i> x <i>Esox m</i> Shields, Robert
2:00 PM	Understanding the Past to Inform the Future: Dam Removal Information Portal (DRIP) Wieferich, Daniel	Quantifying and Examining Impacts of Priority Invasive Fishes in the Southeastern U.S. Neilson, Matthew	Environmental Drivers of Genomic Diversity in Native Populations of Brook Trout Mamoozadeh, Nadya	Consequences of environmental manipulation on behavioural plasticity in Lake Ontario Atlantic Salmon Mokdad, Ali	Developing environmental DNA for quantitative monitoring of northern pike populations Karlsson, Erik
2:20 PM	Effects of a Modified Flow Regime on a Mid-Sized River Fish Assemblage Gray, Aaron	Elucidating the hierarchical relationships between mechanisms of stream fish taxonomic compositional Annis, William	Application of GT-seq for Genetic Monitoring of the Endangered Razorback Sucker, <i>Xyrauchen texanus</i> Wicks, Abby	PIT tag ingestion: the curious fate of shed tags in salmonid hatcheries Hemeon, Kathleen	Temporal stability of adult muskellunge abundance in northern Wisconsin lakes Dembkowski, Dan
2:40 PM	Chattahoochee River Dam Removals: Considering Local Fishermen's Perspective Kreider, Tyler	Nonindigenous Aquatic Mollusks in Illinois Tiemann, Jeremy	Local Adaptation and Population Structure in Atlantic Croaker ( <i>Micropogonias undulatus</i> ) Fitz, Kyra	Keeping Your Poop in a Group; Improving Fish Hatchery Effluent Stowe, Paul	
3:00 PM	<b>Afternoon Break</b>				
	Should they stay or should they go? Managing dams as agencies	Introduced and Invasive Species: Monitoring, Management, and Ecology Day 1	Highlighting the Cutting Edge: Graduate and Early Career Research in Genetics-Genomics	Adaptive management and reform of hatchery programs for fisheries enhancement and conservation	Biology, ecology, and management of <i>Esox</i> spp. in changing environments
3:20 PM	A Riffle Runs Through It: Modifying a Low-head Dam for Fish Passage Holloway, Drew	Zebra Mussel Invasion Risk: Modeling the Western Spread of an Aquatic Invasive Species Creamer, David	Improved assignment accuracy of American Shad using low-coverage whole-genome sequencing Franckowiak, Ryan	How does life history influence the genetic risks of conservation hatchery programs? Buckner, Jack	Muskellunge Use of Constructed Floodplain Sloughs in Western North Carolina Bushon, Amanda
3:40 PM	Stream restoration following the removal of small dams Myllyoja, Rob	Impact of Freshwater Drum on Lake Erie Dreissenid Populations Keretz, Kevin	The genomic impacts of an invasive subspecies: hybridization within banded killifish Hartman, Jordan	Testing Wild-like Mating in Hatcheries: an Approach to Reduce Fitness Differences With Wild fish? Banks, Michael	Characteristics of a Muskellunge population at the southern edge of its distribution Crane, Derek

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4:00 PM	<b>How to decide what to do with dams - Discussion</b>	Chicago Region water quality increases stress and may deter invasive invertebrates Szklaruk, Natalia	Assessing Lake Champlain's recovering lake trout population using next-generation genetic tools Marcy-Quay, Benjamin	Hatcheries on the edge of climate change: adapting ourselves to salmon futures Harrison, Hannah	Estimating Muskellunge growth using long-term mark-recapture in a Tennessee stream. Collier, William
4:20 PM		Effectiveness of electric barriers for preventing the spread of invasive invertebrates Egly, Rachel	Stock Mixing Informs 'Mixture-Aware' Catch-at-Age Model Development for Lake Michigan Lake Whitefish Krause, Alicia	Challenges in the reform of long-running hatchery programs: The case of OREHP Hervas, Susana	Does Cisco presence or lake characteristics influence the diets of Muskellunge in Minnesota Lakes? Glade, Kamden
4:40 PM			Rio Grande Silvery Minnow genetic monitoring: A 20-year retrospective using genomic approaches and new genetic tools. Caeiro-Dias, Guilherme	Adaptive management and reform of hatchery programs: Convenors' synthesis Lorenzen, Kai	

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## Monday, August 21, 2023

	Grand Gallery F  Dr. Kirk Winemiller's contributions and enduring legacy: Perspectives in fisheries science and conservation across tropical and temperate regions	Grand Gallery Overlook H  <b>Water Quality</b>	River Overlook A  <b>Becoming Relevant to a Changing User-base: Strategies to Manage Future Fisheries</b>	River Overlook B	River Overlook C  <b>We Are Not Adjacent to Nature We Are Part of It</b>
8:00 AM	<b>Introductory notes</b>	Section 303(d) of the Clean Water Act: what does it mean for fisheries? Kusnierz, Paul	Road to Relevancy: A Florida Case Study Crandall, Chelsey		<b>Opening Remarks Schulterbrandt Gragg III, Richard</b>
8:20 AM	The Winemiller legacy: enduring influence on the fields of fisheries ecology and conservation Montana, Carmen	Effective Management Changes for Bromide, Chloride, Sulfate, and Total Dissolved Solids Kingsbury, Joseph	Developing strategies to adapt Maryland's fisheries management structure to climate change Small, Amanda		
8:40 AM	The Winemiller approach to research: natural history, theory, and museum collections López-Fernández, Hernán	Correlative Effects of Cardiovascular Pharmaceutical Waste on Fish Condition in the Upper Ohio River Kingsbury, Joseph	Relevancy of fishing: Invasive species influence recreational satisfaction LaPlante, Caroline		The Waters Know Us: The Black Experience in Fisheries Jearld Jr, Ambrose
9:00 AM	Use the right tool: monitoring <i>Oncorhynchus mykiss</i> populations with multiple life history strategies Zeug, Steven	Are nutrients limiting salmonid populations in the lower Clark Fork River? Kusnierz, Paul	The Role of Nongovernmental Organizations (NGOs) in Sustainable Fisheries in the Caribbean Acosta, Alejandro		The Joy and Persistence of the Black Fisher Tradition Mosley, Camille
9:20 AM	What drives stable isotopic niche variability? A macroecological analysis with inland fishes Keppeler, Friedrich		Unleashing the Power of AFS Products to Influence Decisions Peck, Andrew		Black, Blue, and Green: An American Fisheries Identity Hoskins-Brown, Dionne
	<b>Morning Break</b>				
9:40 AM	<b>Plenary Session</b>				
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1:20 PM	Armored catfish invasion shifts trophic ecology of native fishes Quintana, Yasmin	CleanShoresGreatLakes: A case of Lake Victoria Mwanza region Kilanga, Lucyphine	Are citizen science data used in stock assessments? Furnish, Abigail	Transformation to Selective Passage; a Non-Native Fish Management Approach Dearden, Steve	Black Americans and Recreational Fisheries Dozier, U
1:40 PM	Size, Diet, and Habitat Associations of a Recently Described Peacock Bass Species, Cichla cataractae Fry, Benton	Challenges facing the fisheries and economic viability of desert lakes- a case of Lake Turkana, Kenya WANDERI, ELIZABETH	Toyota ShareLunker Program Partners with Anglers to Enhance Bass Fishing in Texas Goldstrohm, Natalie	Drought, water storage, and an invasion: Smallmouth Bass in the Grand Canyon Eppheimer, Drew	Examining Barriers to Recreational Fishing Among People of Color in Arkansas Williams Fields, Annette
2:00 PM	Retrospective Analyses of Flow-Recruitment Relationships of Periodic Life-History Strategist Fishes Hoeinghaus, David	Fish and Fishery Products Trade between the United States and China Deb, Uttam	A Comparison of Seining and Electroshocking in the Rouge River, MI. Williams, Olivia	Effect of ecosystem size and population productivity on genetic biocontrol of invasive species Wallace, Ellie	Empowering Diverse Voices to Enhance an Equitable Future Moffitt, Christine
2:20 PM	Impacts of mega dams on Amazonian fish and fisheries Arantes, Caroline	Untangling Effects of Live-Imaging Sonar on Angler Behavior, Perception, and Success Neely, Ben	Oregon's Electronic Licensing System citizen provided harvest records: e-Creel part one Jones, Michelle	Structured decision making to inform Black Carp management, research, and monitoring Colvin, Michael	Addressing Strategic Priorities for Advancing Underrepresented Groups in Fisheries and Natural Resources Nelson, Stacy
2:40 PM	Thresholds of floating meadow fishes to floodplain deforestation in the Amazon River Grinstead, Sam	Peer review trends in fisheries science journals Midway, Stephen	Oregon's Electronic Licensing System Citizen Provided Harvest Records: e-Creel Part Two Riggers, Brian	Hiding in Plain Sight – Significance of Existing Data in Small Data Systems Brey, Marybeth	The Impact of African Americans in Aquatic Sciences Chigbu, Paulinus
3:00 PM	<b>Afternoon Break</b>				
	Dr. Kirk Winemiller's contributions and enduring legacy: Perspectives in fisheries science and conservation across tropical and temperate regions	Non-game and Rare/Threatened Species	Challenges and Solutions for Using Citizen Science Data in Fisheries Management	Integrating Monitoring and Decision Tools for Data-limited Endangered and Invasive Species Day 1	We Are Not Adjacent to Nature We Are Part of It
3:20 PM	Survey of Vulnerable Amazonian Manatees Using Environmental DNA (eDNA): Methods for Remote Settings Romoser, Kaitlyn	Inter-Organizational Partnerships: Successes for rare species management Escobar, Anakela	Public engagement and coordination fill knowledge gaps for emerging invasive species Barnett, Mindy M	Believe it or not – A Bayesian network for estimating imperilment of data-deficient fishes Dunn, Corey	Tutoring with Tilapia: The Cross-Curricular Use of Aquaculture With Urban Minority Students Hughes, Steven
3:40 PM	Assaying fish richness and distribution using eDNA in the Ecuadorian Amazon Hessels, Evan	Probable Remnant Population of Lake Erie Cisco Coregonus artedii in Pennsylvania Schmitt, Joe	The challenge of public participation, an online fishing tournament example Kopaska, Jeff	Value of information analysis in a multiple-objective setting: management of Sacramento River fishes Healy, Brian	The Sentiment of Trainee/Instructor Representation in Fisheries Observer Training Mayo, Isaiah

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4:00 PM	Does the Flood Pulse Regime Mediate Ecological State Change in Floodplain Ecosystems? Correa, Sandra	Assessing the Thermal Ecology of Several Notropis Species Using Multiple Metrics Harried, Brittany	Citizen Science Biosurveillance of Blotchy Bass Syndrome: Multiplexing Efforts Expands Reporting Raines, Clayton	Informing estuarine protection of winter-run Chinook salmon using model integration Jensen, Alexander	Biodiversity and Genetic Diversity Perspectives for Adaptation in Shellfish Aquaculture Stiles, Sheila
4:20 PM	Flow Alteration Effects on Trophic Structure of Fish Assemblages in Temperate and Tropical Rivers Pease, Allison	Multi-scale habitat suitability modeling for the Ouachita Fanshell ( <i>Cyprogenia</i> sp. cf. <i>aberti</i> ) Drake, Seth	Changing Seasonality of Fish Mass Mortality Events in Michigan Lakes Alofs, Karen	Three-decades-long Development of Online Tools: Columbia River DART and Central Valley SacPAS Gosselin, Jennifer L.	ONLINE ONLY - SALS, Smart Aquaponics Laboratories for Training Future Aquaculture Leaders and Innovat Edwards, Jesse
4:40 PM	<b>Panel Discussion</b>	Upper Thermal Tolerance of Western Ridged Mussel ( <i>Gonidea angulata</i> ) and its Host Fish, <i>Cottus</i> spp. Valeria, Rachael			

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## Monday, August 21, 2023

	River Overlook D	River Overlook E	River Overlook F
	<b>“MacGyvering”: Innovative Problem Solving in Fisheries Science</b>	<b>Riparian and Streams: Conservation and Restoration</b>	<b>Great Lakes Fisheries and Habitat</b>
8:00 AM	Say Cheese! Characterizing Juvenile Alewife Out-Migration Timing Using Time Lapse Photography Burgess, Michael	Impacts of Habitat Restoration and Nutrient Concentrations on the Functional Composition of Fish Skowronski, Ryan	Identifying and characterizing Lake Whitefish spawning habitat in Lake Erie Chiotti, Justin
8:20 AM	iCatch: solving species identification challenges by combining genomics and AI Meek, Mariah	Riparian zones - a key factor in conservation efforts for terrestrial and freshwater biodiversity Schinegger, Rafaela	Modeling Great Lakes reef locations in support of fisheries management and habitat restoration Cooper, Arthur
8:40 AM	Developing an app for anglers using AI and computer vision Paradis, Yves	Restoring Aquatic Connectivity: Linking Fish Traits to Environmental Changes After Dam Removals Bruegge, Josh	Projecting Coastal Habitat Restoration Outcomes for Great Lakes Native Fishes Miller, Andrew
9:00 AM	A public-private partnership to develop an artificial intelligence tool for recreational water use Clark-Kolaks, Sandy	An integrative conservation planning framework for riverscapes fragmented by road- stream crossings Acre, Matthew	Fish Assemblage Structure in Great Lakes Coastal Wetlands Silverhart, Matthew
9:20 AM	Make It Count: A Novel Approach in Boat Ramp Data Collection Livingston, Michaela	Prioritizing watersheds in the Upper Little Tennessee River to guide restoration initiatives. Gibbs, Keith	Life on the mountain: lake charr at Stannard Rock, Lake Superior, 2011-2015 Sitar, Shawn
9:40 AM	Uncovering Blue Technology: An inventory and analysis of technologies addressing IUU fishing Cipparone, Hugh	<b>Morning Break</b>	
10:00 AM	<b>Plenary Session</b>		
12:00 PM	<b>Lunch</b>		

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	River Overlook D	River Overlook E	River Overlook F
	<b>“MacGyvering”: Innovative Problem Solving in Fisheries Science</b>	<b>Spatiotemporal Variability in Aquatic Food Webs</b>	<b>Fisheries and Habitat</b>
1:20 PM	Investigating the Application of Sonar Cameras and Drones in Quantifying Whitefish Mortality Noll, Brandon	Larval Lake Whitefish zooplankton consumption in spatially variable zooplankton densities Amidon, Zach	Anthropogenic effects of scientific-survey bottom trawling on live-bottom marine habitats in the eas Grace, Mark
1:40 PM	A spatial, joint species physiologically-guided abundance model to improve climate predictions Custer, Christopher	Match-mismatch Dynamics of Three Larval Fish Taxa in the Illinois River Davila, Rafael	PING-Mapper: Reproducible Substrate Mapping with Recreation-grade Sonar Systems Bodine, Cameron
2:00 PM	From Karl Broman’s 11 unique socks to sampling considerations for rare fish Sard, Nicholas	“Who’s eating juvenile lobsters?”: An evaluation of lobster predation in the Gulf of Maine Peters, Rebecca	Modeling Habitat Change Effects in the York River Ecosystem, Chesapeake Bay Bevans, Amanda
2:20 PM	Collecting age samples for freshwater sportfish. Can we do better? Feltz, Nicholas	Nearshore Gulf of Maine Groundfish Diets Focusing on Diadromous Fish Contributions Falke, Landon	Ecosystem Response to a Whole-reservoir Coarse Woody Habitat Addition Radford, Dakota
2:40 PM	Maternal vs Natal Contributions to Otolith Microchemical Signatures of Larval Lake Whitefish Rawinski, Peter	Use of Stomach Contents, Fatty acids, and Stable Isotopes to Assess Lake Trout Diet from Otsego Lake Farese, Nicholas	Unlocking historical data for examining spatial and temporal trends in fisheries King, Katelyn
3:00 PM	<b>Afternoon Break</b>		
	<b>“MacGyvering”: Innovative Problem Solving in Fisheries Science</b>	<b>Spatiotemporal Variability in Aquatic Food Webs</b>	<b>Fish Migration and Movement</b>
3:20 PM	Seeing through a fish’s eye: Using stable isotopes of fish eye lenses to understand life history Fetzer, William	Linking lifetime foraging histories to observed growth trajectories in Lake Trout Rosinski, Caroline	Adult Atlantic Salmon Movements and Survival in the Penobscot and Machias Rivers Merriam, Carolyn
3:40 PM	A Look at the Technology behind the Hawaiian Fishpond Recruitment Gate (Makaha). Tagal, Mark	Trophic disruption by invasive species alters spatiotemporal food-web dynamics and energy fluxes Flood, Peter	Does discharge accurately determine upstream migration difficulty? Byrnes, Evan

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4:00 PM	A novel automatic release cage to reduce predation on Atlantic salmon smolts Glover, Ross	Precipitation Regime Influences Secondary Production Dynamics in Stream Food Webs Strickland, Bradley	Mortality and Movement of Greater Amberjack off the Southeastern United States Young, Samantha
4:20 PM	Ant Farms, Hot Water, and Invasive Crayfish: What could possibly go wrong? Barnes, Nick	Evaluating Nutrient Loading and Fish Community Trends in Saginaw Bay, Lake Huron Meyer, Justin	Effects of hatchery flow training on Colorado Pikeminnow <i>Ptychocheilus lucius</i> dispersal. Cleveland, John
4:40 PM	Advancing Innovative Solutions: From MacGyvering to Manufactured Products Bryan, Vincent	Predicting Causality in Ecosystem Models using Empirical Dynamic Modeling Woodstock, Matt	

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## Tuesday, August 22, 2023

	Grand Gallery A	Grand Gallery B	Grand Gallery C	Grand Gallery D	Grand Gallery E
	<b>North American Sturgeon and Paddlefish: Challenges to Adaptive Management During Ecosystem Change Day 1</b>	<b>Introduced and Invasive Species: Monitoring, Management, and Ecology Day 2</b>	<b>Mississippi River Basin Habitat Management for Interjurisdictional Fishes</b>	<b>Coolwater Aquaculture Workshop - Challenges, Updates, and Continued Collaboration</b>	<b>Coast to Coast: Strategies, Tools, and Approaches for Applied Management of Salmonids Day 1</b>
8:00 AM	Lake Sturgeon early life history research in the St. Clair-Detroit Rivers system Roseman, Edward	Adaptive Monitoring of Aquatic Invasive Species: Lower Fox River, Northeast Wisconsin Schultz, Riley	MICRA's Aquatic Habitat Action Plan for Native Interjurisdictional Fish Conover, Greg	Coolwater Aquaculture Workshop - Challenges, Updates, and Continued Collaboration Part 1	At the Edge- Current Freshwater and Marine Production Threaten Maine Salmon Persistence Kocik, John
8:20 AM	Increasing Available Habitat for Lake Sturgeon in the Menominee River: A Novel Approach Johnson, Jennifer	Network Connectivity of Minnesota Lakes: Predictions Through Novel Data Streams Muehler, Aaron	A historical perspective on the value of interstate partnerships Stephenson, Andrew		Understanding Chinook salmon life history variation in the Yuba River, California Hugentobler, Sara
8:40 AM	A Restoration Saga: Return of Lake Sturgeon to the Genesee River, NY. Dittman, Dawn	Utilizing rarity indices for invasive species early detection in Lake Erie Huber, Eric	Restoring America's Greatest River: Partnerships and Potential for the Lower Mississippi Rodgers, Angeline		Future viability of the Apache Trout in the southwestern United States Dauwalter, Daniel
9:00 AM	The importance of lake habitat use by wild female Kootenay White Sturgeon Stephenson, Sarah	Utility of the electrified dozer trawl to increase AIS early detection efficiency Towne, Kristen	Island Construction: Managing Upper Mississippi River Connectivity through Rebuilding Natural River Levees Janvrin, Jeffrey		Rapid genetic adaptation to a novel ecosystem despite a massive bottleneck Christie, Mark
9:20 AM	Predation Rates on Dispersing Larval Lake Sturgeon are Influenced by Ecological Factors Riedy, Joseph	Incorporating Environmental DNA Metabarcoding into an AIS Early Detection Program Iacaruso, Nicholas	Fisheries habitat reconnection and improvements in the Mississippi River bature of Louisiana Harlan, Raynie		Survival and Life History Patterns of Oncorhynchus mykiss in a California River Peterson, Matt
9:40 AM	<b>Morning Break</b>				
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1:20 PM	Utility of side-scan and down-scan sonar for monitoring Paddlefish Long, James	Monitoring of a keystone species (Alosa pseudoharengus) with eDNA and environmental effects Dougherty, Matthew	Fish community change over 15 years at Emiquon – a restored Illinois River backwater Lamer, Jim	Coolwater Aquaculture Workshop - Challenges, Updates, and Continued Collaboration Part 2	The Journey from Redd to Refugia Lemanski, Joseph

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1:40 PM	Behavioral evidence of olfactory imprinting during larval stages in lake sturgeon Kimmel, Jacob	Environmental DNA Early Detection Monitoring Identifies an Advancing Round Goby Invasion Front Waits, Eric	The Klondike Dam Removal - Restoring Stream Connectivity in the Big Sioux River Hawkins, Michael	Coolwater Aquaculture Workshop - Challenges, Updates, and Continued Collaboration Part 2	Beavers, fire, fish: Geomorphic influences on salmonid recolonization in a post-fire environment Means-Brous, Mekayla
2:00 PM	Management of Lake Sturgeon ( <i>Acipenser fulvescens</i> ) in the Lower St. Lawrence River, Quebec, Canada Bernatchez, Simon	Small but risky: Non-native fish introductions via the live bait trade Mulligan, Hannah	Insights from Stream and Floodplain Restoration Efforts Haupt, Kevin		Identifying Thermal Refugia Using UAV-based TIR Imagery Acquisition in Michigan Rivers Lemon, Jacob
2:20 PM	Spatial Dynamics of Paddlefish to Inform Appropriate Scales for Management Bearden, Katie	Crayfish prevalence and store owner knowledge in the Great Lakes pet trade Feagley, Rachel	Ecological Restoration of a Midwest Agricultural Stream through Innovation and Fertile Collaboration Sweeten, Jerry		Managing Cold-Water Refuges in a Changing World: Perspectives and Path Forward Neville, Helen
2:40 PM	Effects of Damaged Rostra on Condition and Movement of Alabama River Paddlefish Steffensmeier, Nathaniel	Multiagency Response to Invasive Red Swamp Crayfish Effects on Native Crayfish Walker, Sarah			Comparison of Allopatric Cisco ( <i>Coregonus artedii</i> ) Aerobic Scope and Acute Thermal Tolerance Simonson, Martin
3:00 PM	<b>Afternoon Break</b>				
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3:20 PM	Discharge mediates effects of temperature on Atlantic Sturgeon spawning migrations in the Great Pee Peoples, Brandon	Evaluating Michigan's Invasive Red Swamp Crayfish Response Efforts Quebedeaux, Kathleen	Invasive Carp Underwater Acoustic Deterrent at Mississippi River Lock 19 Woodley, Christa	Coolwater Aquaculture Workshop - Challenges, Updates, and Continued Collaboration Part 3	Comparative Evaluation of Lake Whitefish Nursery Habitat in Keweenaw Bay, Lake Superior Dawson, Kaitlyn
3:40 PM	Grand River Sturgeon: The Value of Zero Holtgren, Marty	Eradication efforts for Red Swamp Crayfish in Southeast Michigan Wright, Brennen			Emphasizing the Benefits of Non-Summer Growth in Aquatic Connectivity Decision Making Neville, Helen

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## Tuesday, August 22, 2023

	Grand Gallery A	Grand Gallery B	Grand Gallery C	Grand Gallery D	Grand Gallery E
	<b>North American Sturgeon and Paddlefish: Challenges to Adaptive Management During Ecosystem Change Day 1</b>	<b>Introduced and Invasive Species: Monitoring, Management, and Ecology Day 2</b>	<b>Mississippi River Basin Habitat Management for Interjurisdictional Fishes</b>	<b>Coolwater Aquaculture Workshop - Challenges, Updates, and Continued Collaboration</b>	<b>Coast to Coast: Strategies, Tools, and Approaches for Applied Management of Salmonids Day 1</b>
4:00 PM	Seasonal Movements of Juvenile White Sturgeon in Lower Granite Reservoir, Snake River Wu, Jack	Spread and ecological impacts of rusty crayfish ( <i>Faxonius rusticus</i> ) in Lake Michigan Keller, Reuben	Fish Passage Design and Pre-Construction Monitoring at Lock and Dam 22 on the Upper Mississippi River Cornish, Mark		Assessing habitat suitability for salmonids with limited occurrence records above barriers Dean, Emily
4:20 PM	Environmental DNA (eDNA) monitoring of Lake Sturgeon in the Great Lakes Silverbrand, Samantha	Drivers of activity patterns and movement of invasive red swamp crayfish Raboin, Maggie	Fisheries Habitat Improvement through Dredging of Mississippi River Backwaters Janvrin, Jeffrey		
4:40 PM	Recruitment of juvenile Atlantic sturgeon in the Savannah, Ogeechee, and Satilla Rivers, GA Fox, Adam	Food-Web Interactions of Two Overlapping Populations of Invasive Crayfish in an Urban Waterway. Dlesk, Grant	<b>Panel Discussion</b>		

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## Tuesday, August 22, 2023

	Grand Gallery F	Grand Gallery Overlook F	Grand Gallery Overlook H	River Overlook A	River Overlook B
	<b>Adapting to Change in Fisheries Stock Assessment Science Day 1</b>	<b>NONGAME: Underappreciated Fishes and their Management in the United States Day 1</b>	<b>Fishes Management: Catch and Release</b>	<b>Growing Fisheries Reserach and Management through Angler Engagement</b>	<b>Integrating Monitoring and Decision Tools for Data-limited Endangered and Invasive Species Day 2</b>
8:00 AM	Proposed Business Rules to Incorporate Climate-induced Changes in Fisheries Management Link, Jason	Introduction to "NONGAME" Fishes David, Solomon	Catch-and-Release Fish Handling in the Context of Population-Scale Management Corsi, Matthew	The Guide-Based Trinity River Alligator Gar Tagging Program: a Win-Win for Management Daugherty, Dan	
8:20 AM	Disentangling the impacts of climate warming and fishing pressure on freshwater fish populations Xu, Luoliang	Management of Nongame Fishes and the Public Trust Doctrine Scarnecchia, Dennis	Brown Trout Catch And Release Survival And Movement In A Southern Hydropeaking Tailwater Lochmann, Steve	Iconic trophy bass—using TrophyCatch and citizen-science-data to document big bass in Florida Lindeliien, Summer	
8:40 AM	Modeling the Consequences of Alternative Salmonine Stocking Strategies in Lake Michigan Jones, Michael	The Complex Identities of "Other" Fishes-Legal & Regulatory Complications for Nongame Fishes Schooley, Jason D.	Black bass harvest regulations in an era of catch-and-release Tyzsko, Stephen	TrophyCatch Eyeball Challenge Dutterer, Drew	Data-rich, but Information-limited: Deriving Management Information from Longfin Smelt Monitoring Tobias, Vanessa
9:00 AM	Integration of Artificial Reef Placement Decisions in Recreational Fisheries Chong, Lisa	Native "Rough Fish" Management in Minnesota Fisher, Shannon	Catch-and-release angling effects on two black bass populations at an Alabama Reservoir Pullen, TJ	Catch a Florida Memory: Engaging anglers in Florida to promote sportfish conservation. Christoferson, Jill	Connecticut River Blueback Herring stock status and trends, what have we learned? Sprankle, Kenneth
9:20 AM	What's the Score? A High-Level Index for Communicating Stock Status Hesse, Jay	Life history complexity of buffalofishes, carpsuckers, bowfin, and redhorse Lackmann, Alec	Mortality components of two Black Bass species at an Alabama reservoir Rubino, Max	Where do 400,000 fishes go? Changes in effort in a 28 year volunteer fish tagging program Musick, Susanna	Long-term Monitoring Plan for Native Fish Populations in the Gila River Basin Mosher, Kent
9:40 AM	<b>Morning Break</b>				
10:00 AM	<b>Plenary Session</b>				
12:00 PM	<b>Lunch</b>				
	<b>Adapting to Change in Fisheries Stock Assessment Science Day 1</b>	<b>NONGAME: Underappreciated Fishes and their Management in the United States Day 1</b>	<b>Fishes Management: Inland</b>	<b>Growing Fisheries Reserach and Management through Angler Engagement</b>	<b>Integrating Monitoring and Decision Tools for Data-limited Endangered and Invasive Species Day 2</b>
1:20 PM	Forecasting Columbia Basin Sockeye salmon in a changing world Fryer, Jeffrey	Hybrid Herd: Morphology, genetics and population dynamics of Buffalofishes in Oklahoma Gainer, Colby	Nexus of Niches: Multidimensional Niche Modelling to Improve Management of Prairie Chub Steffensmeier, Zachary	2023 Iowa Walleye Challenge – Using a statewide fishing tournament to assess walleye populations Kopaska, Jeff	Evaluating the Impact of Fish Monitoring Effort Expansion/Reduction through Occupancy Modeling Mahardja, Brian

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## Tuesday, August 22, 2023

	Grand Gallery F	Grand Gallery Overlook F	Grand Gallery Overlook H	River Overlook A	River Overlook B
	<b>Adapting to Change in Fisheries Stock Assessment Science Day 1</b>	<b>NONGAME: Underappreciated Fishes and their Management in the United States Day 1</b>	<b>Fisheries Management: Inland</b>	<b>Growing Fisheries Reserach and Management through Angler Engagement</b>	<b>Integrating Monitoring and Decision Tools for Data-limited Endangered and Invasive Species Day 2</b>
1:40 PM	Integration of Climate Change Impacts on New England Groundfish into Stock Assessments Kerr, Lisa	Blue Sucker Population Status and Recruitment Limitations in a Central Texas River. Smith, Nate	U.S. inland creel programs: a review and management recommendations Kaz, Anna	Using Citizen Science to Validate Whirling Disease Outbreaks James, Clayton	Developing non-lethal sampling approaches to examine the health of fishes of conservation concern Moran, Zach
2:00 PM	Identifying climate-mediated changes in Atlantic cod spatial dynamics using VAST Lankowicz, Katie	Environmental correlates for Blue Sucker occurrence in regulated rivers Evans, Hannah	Tired: Common Carp Removal   Wired: Trophy Common Carp Management Kramer, Nick	Lessons learned from a fishing tournament registration and reporting program in Michigan Gonia, Tom	The Game is Afoot: CRISPR-Based Genotyping (SHERLOCK) for Chinook Salmon Conservation Canfield, Sean
2:20 PM	Modeling zero-inflated trawl survey data of American Horseshoe Crab using hurdle models. Wong, Chad	Carpoides in Colorado, a genus in need of study Woodling, John	Hoot Owl Regulations in Idaho: Are They Needed To Protect Trout Populations? Meyer, Kevin	Fishers asking for access restrictions? Coproducing management recommendations to protect seagrasses Boucek, Ross	Biology and Policy Affect the Value of eDNA for Rapid-response Decision Making Dumoulin, Christine
2:40 PM	Multi-gear per-recruit analyses of cutlassfish ( <i>Trichiurus japonicus</i> ) in the waters around Taiwan Lin, Chih-Yu	River Carpsucker vs. Llano River Carpsucker: Morphological Divergence of an Undescribed Catostomid Roberts, Hayden	Community participation in Ecosystem Based Fisheries Management in Restoring L.Malawi Biodiversity Nkhata, Asante Dankie	Assessment of Changing Patterns in Juvenile Shark Abundance Using Local Ecological Knowledge Bartz, Danielle	Catching What You Can't See: Targeted Removal of Invasive Loaches Using eDNA Wiggins, Jennie
3:00 PM	<b>Afternoon Break</b>				
	<b>Adapting to Change in Fisheries Stock Assessment Science Day 1</b>	<b>NONGAME: Underappreciated Fishes and their Management in the United States Day 1</b>	<b>Fish Behavior and Early-Life History</b>	<b>Growing Fisheries Reserach and Management through Angler Engagement</b>	<b>Integrating Monitoring and Decision Tools for Data-limited Endangered and Invasive Species Day 2</b>
3:20 PM	Exploring nonlinear capelin ( <i>Mallotus villosus</i> ) population dynamics with Empirical Dynamic Modelling Steele, Reid	Status of Freshwater Drum in Kansas impoundments with emphasis on three populations Ernesto Flores, Ernesto	Hook Memory Without Hyperdepletion in Largemouth Bass Mosley, Camille	Collaborating with Anglers to Co-manage Fisheries in Utah Walker, Craig	Detecting Rare Fish Species In a Large, Regulated River Using Environmental DNA Dibble, Kimberly
3:40 PM	Cold Stun Events and Spotted Seatrout: Implications for Sustainable Fisheries Management Pensing, Lucas	Going for the Goldeye: Development of a Standard Weight Equation for Goldeye ( <i>Hiodon alosoides</i> ) Renner, Elizabeth	Can Bass Recognize Lures and Learn to Avoid Them? Philipp, David	Gulf of Mexico For-Hire Electronic Reporting Program Construction and Destruction Malinowski, Richard	eDNA Methodologies for Rare Species Detection: Limitations and Lessons Learned Coombs, Jason

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## Tuesday, August 22, 2023

	Grand Gallery F	Grand Gallery Overlook F	Grand Gallery Overlook H	River Overlook A	River Overlook B
	<b>Adapting to Change in Fisheries Stock Assessment Science Day 1</b>	<b>NONGAME: Underappreciated Fishes and their Management in the United States Day 1</b>	<b>Fish Behavior and Early-Life History</b>	<b>Growing Fisheries Reserach and Management through Angler Engagement</b>	<b>Integrating Monitoring and Decision Tools for Data-limited Endangered and Invasive Species Day 2</b>
4:00 PM	Stock Assessment of Spotted Seatrout in the Wake of Cold Stun Events Pensingier, Lucas	Isotopic niche of a Mississippi River Fish Assemblage along a Longitudinal Gradient Valentine, Shaley	Are Larval Cisco Better at Foraging and Avoiding Predation than Larval Lake Whitefish? Hoyer, Kelly	Structuring a steelhead diary program to combat attrition O'Keefe, Dan	Leaf Litter Alters Removal of Carp and Steelhead eDNA in Experimental Settings Curtis, Erik
4:20 PM	Population Trends in Texas Spotted Seatrout Following a 2021 Winter Storm Bauer, Hanna	Ecology and life history of two Alligator Gar metapopulations Wright, Katherine	Larval fish drift in a changing world Parkos, Joseph	Angler Engagement Efforts in Coastal South Carolina Perkinson, Matt	The influence of seasonality on eDNA transport using experimental releases in streams Snyder, Elise
4:40 PM	Spatially Explicit Population Dynamics of Striped Bass in the Chesapeake Bay Nehemiah, Samara	Re-Evaluating Species Richness of an Ancient Fish Lineage (Lepisosteidae) Sinopoli, Daniel	Spatial and temporal factors influence fine sediment effects on Brook Trout recruitment Briggs, Emilee	Integrating Experimental Designs Into Citizen Science Projects Using App Based Fishing Tournaments Simmons, Sean	

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## Tuesday, August 22, 2023

	River Overlook C	River Overlook D	River Overlook E	River Overlook F	Steelcase Ballroom C
	<b>Exploration of the science and innovation supporting selective connectivity at barriers</b>	<b>Great Lakes Connecting Waters: Research, Monitoring, and Progress</b>	<b>Soft Skills for Enhancing the Success of Early Career Professionals</b>		
8:00 AM	FishPass – a vision for selective fish passage solutions to the connectivity conundrum Zielinski, Daniel	St. Marys River Ichthyoplankton Community Composition During 2022 Lake Huron CSMI Survey DeBruyne, Robin	Failure is an Option? The Winding Road of Learning and Career Development Fischer, Jason		
8:20 AM	Determining connectivity between the Boardman River, Grand Traverse Bay(s), and Lake Michigan Swanson, Reid	Larval Fish Export in Response to Varying Compensating Gate Discharge at the Sault Rapids, St. Marys VanDrunen, Signe	Emerging needs of the 21st century workforce in fisheries and natural resources Galarowicz, Tracy		
8:40 AM	Predicting the impact of restored sucker migrations on ecosystem nutrient dynamics Vale Cruz, Marisa	St. Marys River and Interjurisdictional Management Fielder, David	Navigating the career ladder with broken and missing steps Paukert, Craig		
9:00 AM	The Impact of Dissolved Nutrient Concentration on Stream Food Web Structure Before Fish Migration Co Al-Nazzal, Selina	A Collaborative Fishery Assessment on Lake St. Clair Briggs, Andrew	Embracing Interdisciplinarity as a Trainee Cooke, Steven		
9:20 AM	Evaluating post-release movements of translocated Catostomid suckers prior to fishway instillation Jacobs, Gregory	Northern Madtom in the St. Clair River - Holding Strong Against the Current Utrup, Brad	An ounce of prevention is worth a pound of conflict resolution Mayer, Christine		
9:40 AM	<b>Morning Break</b>				
10:00 AM	<b>Plenary Session</b>				
12:00 PM	<b>Lunch</b>				
	<b>Exploration of the science and innovation supporting selective connectivity at barriers</b>	<b>Great Lakes Connecting Waters: Research, Monitoring, and Progress</b>	<b>Soft Skills for Enhancing the Success of Early Career Professionals</b>	<b>Implementing the Cooperative Research Model Through the NOAA Living Marine Resources CSC</b>	
1:20 PM	ASSESSING FLINT RIVER ECOLOGY ABOVE AND BELOW A DAM SCHEDULED FOR REMOVAL Summers, Chloe	Lake St. Clair Smallmouth Bass Populations: 50 Years of Change Hessenauer, Jan-Michael	Making smart decisions: a framework for life decisions and fisheries management Robinson, Kelly	A model for fostering collaborative student research in a multi-institutional Center Chigbu, Paulinus	

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## Tuesday, August 22, 2023

	River Overlook C	River Overlook D	River Overlook E	River Overlook F	Steelcase Ballroom C
	<b>Exploration of the science and innovation supporting selective connectivity at barriers</b>	<b>Great Lakes Connecting Waters: Research, Monitoring, and Progress</b>	<b>Soft Skills for Enhancing the Success of Early Career Professionals</b>	<b>Implementing the Cooperative Research Model Through the NOAA Living Marine Resources CSC</b>	
1:40 PM	Multispecies selective fish passage: designing sortable guilds for fishes of the Great Lakes Benoit, David	Egg Deposition on Constructed Reefs in the St. Clair-Detroit River System Ireland, Stacey	Searching for, finding, and selecting a graduate program: tips and tricks. Schneider, Jim	Collaborative Strategies in Research Planning for the LMRCS: A Case Study from the SEFSC Hoskins-Brown, Dionne	
2:00 PM	Exploiting behaviour to improve selective fish passage at a two-chamber trap-and-sort fishway Hellmuth, Aliana	Risks of Consuming Contaminated Fish from the Niagara River Area of Concern Baldigo, Barry	Transitioning to grad school: Pathways and perspectives from two early career professionals Huber, Eric	Ecological Assessment of Environmental Health and Oyster Aquaculture Grow-Out Conditions in Delaware Andrade, Emily	
2:20 PM	Combining improved size-selective sorting and automation to make selective fish passage practical McLaughlin, Robert	Habitat Characterization of the Upper Niagara River for Juvenile Lake Sturgeon Johnson, Josephine	Tips & Tricks for Developing a Federal Resume and Navigating USAJobs Collier, Jessica	Enhanced selective mortality during marine heatwaves Miller, Jessica	
2:40 PM		Evaluation of Threatened, Endangered, and Rare Fish Species & Communities of the St. Lawrence River McKenna, James	You Are the Change. Perspectives on leading through change and soft skills for newly hired biologists Jolley, Jeff	Influence of environmental factors on distributions of Jonah and Atlantic rock crabs Wade, Kaitlynn	
3:00 PM	<b>Afternoon Break</b>				
	<b>Exploration of the science and innovation supporting selective connectivity at barriers</b>	<b>Great Lakes Connecting Waters: Research, Monitoring, and Progress</b>	<b>Soft Skills for Enhancing the Success of Early Career Professionals</b>	<b>Implementing the Cooperative Research Model Through the NOAA Living Marine Resources CSC</b>	<b>Invasive Carp Research: Sharing Across Watersheds to Improve Control Efforts - Day 1</b>
3:20 PM	Field test of a fishway that excludes an invasive species via behavioral manipulation Wagner, Michael	The St. Lawrence River: Linkages between Habitats and Fisheries Farrell, John	A tiered approach to outreach products and stakeholder communications O'Keefe, Dan	Interstate transport and the potential for introducing new viruses to blue crabs Herrera, Jennifer	Fifty years of bigheaded carps in North America, and future opportunities. Chapman, Duane
3:40 PM	Advances in Commodity Computing Software and Hardware to Aid Selective Passage Eickholt, Jesse	Simulated effects of fish orientation on fish length estimates from side-looking echosounder surveys Johnson, Garrett	A meta-presentation: Emergent themes for effective scientific presentations Perkin, Joshua	Diet variation and trophic impact of Weakfish, Cynoscion regalis, within Eastern US marine habitats Reyes Delgado, Angel	Ohio's Lake Erie Grass Carp Response Strategy Navarro, John

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## Tuesday, August 22, 2023

	River Overlook C	River Overlook D	River Overlook E	River Overlook F	Steelcase Ballroom C
	<b>Exploration of the science and innovation supporting selective connectivity at barriers</b>	<b>Great Lakes Connecting Waters: Research, Monitoring, and Progress</b>	<b>Soft Skills for Enhancing the Success of Early Career Professionals</b>	<b>Implementing the Cooperative Research Model Through the NOAA Living Marine Resources CSC</b>	<b>Invasive Carp Research: Sharing Across Watersheds to Improve Control Efforts - Day 1</b>
4:00 PM	Assessing Passage Efficacy for Alewife at a State-of-the-Art Fishway Dillingham, Cody	Ecological Restoration after Dam Removal: A Case Study on the Kalamazoo River Diller, Sara	<b>Panel Discussion</b>		Utility of Invasive Carp Advisory Committee to Advance Management and Control Efforts Simmonds, Rob
4:20 PM	The Consequences of Connectivity: A Decision Analytic Approach to Fish Passage Decisions Flinn, Shane	One Fish, Two Fish: Natural Capital Accounting of Great Lakes Resources Marriott, Sara			Improving grass carp control efforts through informal adaptive management Mapes, Robert
4:40 PM					Post-tagging movement of an emerging invasive species: Black Carp <i>Mylopharyngodon piceus</i> Broaddus, Cortney

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# Monday, August 21, 2022

Steelcase Ballroom D	
8:00 AM	
8:20 AM	
8:40 AM	
9:00 AM	
9:20 AM	
9:40 AM	<b>Morning Break</b>
10:00 AM	<b>Plenary Session</b>
12:00 PM	<b>Lunch</b>
1:20 PM	

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## Monday, August 21, 2022

**Steelcase Ballroom D**

1:40 PM	
2:00 PM	
2:20 PM	
2:40 PM	
3:00 PM	<b>Afternoon Break</b>

**Downtown with Fish and Friends: Aquatic Ecology in Urban Settings Day 1**

3:20 PM	Drivers of Fish Movement and Survival in a Small Urban Stream Booth, Michael
3:40 PM	Stability and Habitat Generation of Large Woody Debris Additions in an Urban Headwater Stream Grap, Peter

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## Monday, August 21, 2022

Steelcase Ballroom D	
<b>Downtown with Fish and Friends: Aquatic Ecology in Urban Settings Day 1</b>	
4:00 PM	Road Crossing Barrier and Impervious Surface effects on Stream Habitat and Karst Headwater Fish & Cr Colvin, Susan
4:20 PM	Inventory of headwaters in river networks of the United States Ross, Jared
4:40 PM	Restoring Urban Streams Myllyoja, Rob

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## Wednesday, August 23, 2023

	Grand Gallery A	Grand Gallery B	Grand Gallery C	Grand Gallery D	Grand Gallery E
	<b>North American Sturgeon and Paddlefish: Challenges to Adaptive Management During Ecosystem Change Day 2</b>	<b>Introduced and Invasive Species: Monitoring, Management, and Ecology Day 3</b>		<b>Advancements in Arctic Grayling Fish Culture</b>	<b>Coast to Coast: Strategies, Tools, and Approaches for Applied Management of Salmonids Day 2</b>
8:00 AM	Analyzing Movements and Habitat of White Sturgeon in Lake Umatilla, Columbia River Brill, Gabriella	Why Is This Guy Talking About Ducks at a Fish Conference? DeBoer, Jason			Mass marking as a tool to inform Great Lakes salmonid management Kornis, Matthew
8:20 AM	Assessing reintroduction success of juvenile Lake Sturgeon in the Maumee River McKenna, Jorden	Forecasting Trophic Dominance of Invasive Carp Garvey, James			Performance evaluation of a Brook Trout Wisconsin-type bioenergetics model Chalifoux, Virginie
8:40 AM	Re-tracing sturgeon migrations in the Mobile Basin: an exercise in historical ecology Hershey, Henry	Complex shifts in native species trophic structure following Silver Carp invasion Kowalski, Justin		Factors Influencing Reintroduction Potential for Arctic Grayling in a Michigan Watershed Stelt, Nick	Options for Improving the Efficiency of Stream Salmonid Population Estimation Hayes, Daniel
9:00 AM	Snake River White Sturgeon Repatriation Aquaculture at Niagara Springs Fish Hatchery Brown, Riley	Modeling watershed boundary connectivity to mitigate the spread of invasive carp Pfaff, Peter		Implications of Retinal Development in Larval Arctic Grayling ( <i>Thymallus arcticus</i> ) Evans, Barbara	Evaluating Stocking Strategies for recovery of endangered Atlantic salmon in Maine Stevens, Justin
9:20 AM	Forecasting In-Season Harvest for three Recreational Columbia River White Sturgeon Fisheries Sturza, Matthew	Are contaminants deterring upstream movement of invasive carp near Chicago? Schneider, Amy		Under Pressure: Rearing Arctic Grayling on a budget Watson, Nicole	
	Assessing Lake Sturgeon Habitat Suitability in the Cuyahoga River, OH Adams, Eric	<b>Morning Break</b>			
9:40 AM					
10:00 AM	<b>Business Meeting</b>				
12:00 PM	<b>Lunch</b>				
	<b>North American Sturgeon and Paddlefish: Challenges to Adaptive Management During Ecosystem Change Day 2</b>	<b>Introduced and Invasive Species: Monitoring, Management, and Ecology Day 3</b>			<b>Coast to Coast: Strategies, Tools, and Approaches for Applied Management of Salmonids Day 2</b>
1:20 PM	Growth and Longevity of Lake Sturgeon in the Coosa River in Georgia Phillips, Matt	Estimating Silver Carp densities in the Ohio River using Bayesian modeling Marcek, Benjamin			Adapting release time of Chinook Salmon smolts to increase adult returns Lauver, Eric

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	<b>North American Sturgeon and Paddlefish: Challenges to Adaptive Management During Ecosystem Change Day 2</b>	<b>Introduced and Invasive Species: Monitoring, Management, and Ecology Day 3</b>			<b>Coast to Coast: Strategies, Tools, and Approaches for Applied Management of Salmonids Day 2</b>
1:40 PM	Genetic pedigree reconstruction informs lake adult sturgeon passage in the Menominee River Scribner, Kim	The Confluence of Diverse River Users and Invasive Carp Steffen, Susan			Arctic Grayling reintroduction in Michigan: A New Hope Watson, Nicole
2:00 PM	Movement and Habitat Use of Lake Sturgeon in the Coosa River System Perry, Savannah	Harvesting enough carp to matter: can invasive carp removal elicit measurable responses? Butler, Steven			Returning An Extirpated Species To Lake Champlain –Re-establishing Landlocked Atlantic Salmon Earley, Laurie
2:20 PM	Prior reproductive effort and environmental conditions affect Lake Sturgeon inter-spawning interval Larson, Douglas	Exploiting Common Carp Social Foraging Behaviors: An Effective and Selective Removal Strategy Bullers, Rebecca			Evaluation of Factors Affecting Cisco Re-introduction in the Great Lakes McDonnell, Kevin
2:40 PM	Genetic Population Assignment of Non-spawning Lake Sturgeon ( <i>Acipenser fulvescens</i> ) in Lake Superior Schumacher, Lauren	Common Carp Feeding Behavior at Baited Sites Hirt, Vinnie			
3:00 PM	<b>Afternoon Break</b>				
	<b>North American Sturgeon and Paddlefish: Challenges to Adaptive Management During Ecosystem Change Day 2</b>	<b>Introduced and Invasive Species: Monitoring, Management, and Ecology Day 3</b>	<b>Habitat heterogeneity in Lake Michigan: Implications for Food Webs, Fish, and Fisheries - Day 1</b>	<b>Aquaculture and Hatchery Practices</b>	<b>Coast to Coast: Strategies, Tools, and Approaches for Applied Management of Salmonids Day 2</b>
3:20 PM	Factors affecting Lake Sturgeon reproduction: the next step in recovery and management Umland, Levi	Population dynamics and invasion history of Eurasian Ruffe ( <i>Gymnocephalus cernuus</i> ) in Lake Michigan Hendricks, Dalton	Seasonal migration influences benthic-pelagic coupling by Round Goby in Lake Michigan Buckhout, Lindsay	Comparison Study of Coupled vs. Decoupled Aquaponic Systems: Crop Quantity and Quality Huckaby, Kayland	Landscape-scale Prediction of Freshwater Habitat Potential for Chinook Salmon in Alaska Falke, Jeffrey
3:40 PM	Lessons Learned from 30 Years of Winnebago Lake Sturgeon Management Stadig, Margaret	Age, Growth, and Diet of Non-native Riverine Populations of Blue Catfish, Georgia Davis, Victoria	Long-Term Trends in the Northern Green Bay Walleye Fishery: A Comparison of Approaches Doerr, Lydia	Comparison of Maine and California RAS Regulations Nichols, Devan	Utah's North Slope Uinta Mountain Native Cutthroat Trout Renovation Project 2019-2026 Engelbert, Bryan

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	<b>North American Sturgeon and Paddlefish: Challenges to Adaptive Management During Ecosystem Change Day 2</b>	<b>Introduced and Invasive Species: Monitoring, Management, and Ecology Day 3</b>	<b>Habitat heterogeneity in Lake Michigan: Implications for Food Webs, Fish, and Fisheries - Day 1</b>	<b>Aquaculture and Hatchery Practices</b>	<b>Coast to Coast: Strategies, Tools, and Approaches for Applied Management of Salmonids Day 2</b>
4:00 PM	River Resident Adult Lake Sturgeon in the Lake Winnebago System, Wisconsin O'Boyle, Mike	Variation among prey fish responses to long-term removal of invasive smallmouth bass Detmer, Thomas	Exploring links between productivity, zooplankton, and lake whitefish recruitment in Lake Michigan Dembkowski, Dan	Effect of dietary replacement of Soybean meal with Black Soldier Fly Larvae Meal in major carps Fatima, Shafaq	EcoFIP: A Toolset for Assessing Multi-objective Floodplain Restoration Opportunities Tillmann, Luke
4:20 PM	Restoration Programs to Enhance Pallid Sturgeon Recruitment in the Yellowstone and Missouri Rivers Braaten, Patrick	How many Atlantic Salmon smolts could a Smallmouth Bass eat in a section of the Penobscot River? Smith, Rylee	Ichthyoplankton diversity and distribution in the waters of Lower Green Bay, Lake Michigan Houghton, Christopher	The effectiveness of raising salmonids in circular tanks versus traditional raceways on post-release Pandit, Shubha	Changes in Lake Trout Management in Lake Champlain following successful wild recruitment Murphy, Margaret H.
4:40 PM	Physiological Impact of Acclimation to Elevated Temperature in Lake Sturgeon ( <i>Acipenser fulvescens</i> ) Lankford, Scott	Natal Origins of Grand Canyon Brown Trout: Tracking the Past and Present with Otolith microchemistry Akland, Michael		The Big One that Didn't Get Away: Hatchery Effluent Reaches 12 µg/L TP Elwood, Rebecca	Using acoustic telemetry to understand Lake Trout restoration in Lake Champlain Futia, Matthew
5:00 PM				Creative solutions to rising energy costs while driving facilities towards energy efficiency. Switzer, Aaron	

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## Wednesday, August 23, 2023

	Grand Gallery F	Grand Gallery Overlook D	Grand Gallery Overlook F	Grand Gallery Overlook H	River Overlook A
	<b>Adapting to Change in Fisheries Stock Assessment Science Day 2</b>	<b>Invasive Carp Research: Sharing Across Watersheds to Improve Control Efforts - Day 2</b>	<b>NONGAME: Underappreciated Fishes and their Management in the United States Day 2</b>		<b>Engaging Youth in Fisheries Science and Stewardship through Place-Based Education Practices</b>
8:00 AM	Sensitivity of Smsy to Temporally Changing Demographics in Kuskokwim River Chinook Salmon Staton, Ben	Methods for targeted collection of Black Carp Mylopharyngodon piceus by hoop nets Kroboth, Patrick	Bowfishing: high short-term mortality of nongame fishes and its management implications Montague, Graham		
8:20 AM	Breaking the Model Selection Fatigue: Streamlining Covariate Testing for Efficient Analysis Behan, Jamie	Determining Movement of Black Carp in the Mississippi River Basin via Otolith Microchemistry Padilla, Patrick	#SuckerForSuckers: Citizen science as a connection to local watersheds and to science Seilheimer, Titus		
8:40 AM	Estimation of selectivity in the face of time varying growth Schueller, Amy	Otolith microchemistry to study recruitment of bigheaded carp in the Upper Mississippi River Golcher-Benavides, Jimena	Sucker spawning sounds: insights into fish behavior and public engagement potential Murchie, Karen		Y'all come, education and engagement efforts through the Texas Freshwater Fisheries Center Lang, Tom
9:00 AM	State Space Modeling – Freedom from Weighting? Bence, James	Recruitment Sources of Grass Carp (Ctenopharyngodon idella) in the Great Lakes Etter, Nicholas	Reconnecting the Red River of the North; 30 years of nongame enhancement Kludt, Nicholas		Fish in the Classroom: A Pathway for Engaging Youth in Fisheries Science and Community Stewardship Schroeder, Brandon
9:20 AM	Evaluation of a length-structured assessment model for blue crabs with time-varying growth Wilberg, Michael	Invasive Carp Reproduction Contributions of Three Illinois River Tributaries Roth, Daniel	<b>Discussion Panel</b>		Youth Experiencing a Day in the Life of a Fish Biologist Lajavic, Janine
	<b>Morning Break</b>				
9:40 AM					
10:00 AM	<b>Business Meeting</b>				
12:00 PM	<b>Lunch</b>				
	<b>Adapting to Change in Fisheries Stock Assessment Science Day 2</b>	<b>Invasive Carp Research: Sharing Across Watersheds to Improve Control Efforts - Day 2</b>	<b>Communicating climate change impacts on fisheries: Avoiding controversy and enhancing buy-in</b>	<b>Adapting Telemetry Tools, Techniques, and Analyses for Enhanced Understanding and Management of Fishes Day 1</b>	<b>Beaver and Trout Management in the Upper Midwest</b>
1:20 PM	Age structure sampling strategies to support stock assessments for two important NC fisheries Schlick, C.J.	Modeling factors impeding spawning success of invasive carp in the Ohio River Shepta, Erin	Why'd you have to go and make things so complicated? Making your message clear in a complex world Claussen, Julie	Ocean Tracking Network: Tracking species throughout the ocean and connected inland waters Iverson, Sara	Beavers, trout, and humans in the Upper Midwest Lundberg, Emma

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## Wednesday, August 23, 2023

	Grand Gallery F	Grand Gallery Overlook D	Grand Gallery Overlook F	Grand Gallery Overlook H	River Overlook A
	<b>Adapting to Change in Fisheries Stock Assessment Science Day 2</b>	<b>Invasive Carp Research: Sharing Across Watersheds to Improve Control Efforts - Day 2</b>	<b>Communicating climate change impacts on fisheries: Avoiding controversy and enhancing buy-in</b>	<b>Adapting Telemetry Tools, Techniques, and Analyses for Enhanced Understanding and Management of Fishes Day 1</b>	<b>Beaver and Trout Management in the Upper Midwest</b>
1:40 PM	Management implications for linking species distribution models to single-species stock assessments Hart, Amanda	Did the El Niño Southern Oscillation create a perfect storm for Great Lakes Grass Carp recruitment? Hilling, Corbin	Effects of climate change on recreational fisheries and foods: a global perspective Nyboer, Beth	Detection efficiency of an unmanned surface vehicle as a mobile receiver platform Funnell, Tyler	An Overview of the Beaver/Trout Management Program in Wisconsin Ruid, Dave
2:00 PM	Going Deep: Changing Distributions of a Depleted Stock and Catch Advice Implications Zarrella Smith, Katrina	Are Rivers Becoming More Suitable for Invasive Carp? Fendler, Tanya	Understanding Climate Change Impacts on Fisheries Management: An Interactive Learning Experience Jesse, Jerelle	Automated, Cellular, Wide-Area Radio Telemetry Network Monitors Pallid Sturgeon Management DeLonay, Aaron	Beaver-trout relationships and history of management actions in the western Great Lakes USA region Johnson-Bice, Sean
2:20 PM	Spatially explicit assessments of Green Bay–Lake Michigan lake whitefish stocks Tsehaye, Iyob	Larval Fish Drift Phenology Provides Insights for Great Lakes Grass Carp Management Landry, Adam	Weaving Together Traditional and Scientific Ecological Knowledge in a Vulnerability Assessment Shultz, Aaron	Clock drift in telemetry receivers: Methods to minimize and mitigate errors Holbrook, Christopher	Are beavers good or bad for trout populations? Zorn, Troy
2:40 PM		Electrofishing Sandusky River Grass Carp spawning grounds may disrupt spawning Brown, Ryan	<b>Workshop</b>	Using telemetry, side-imaging, ADCP, and video to determine sturgeon overwintering behaviour Litvak, Matthew	The influence of beaver dams on coldwater habitat and trout in Wisconsin streams Mitro, Matthew
3:00 PM	<b>Afternoon Break</b>				
	<b>Adapting to Change in Fisheries Stock Assessment Science Day 2</b>	<b>Invasive Carp Research: Sharing Across Watersheds to Improve Control Efforts - Day 2</b>		<b>Adapting Telemetry Tools, Techniques, and Analyses for Enhanced Understanding and Management of Fishes Day 1</b>	<b>Beaver and Trout Management in the Upper Midwest</b>
3:20 PM	Modeling Temperature-linked distribution shifts of two U.S. Atlantic coast Sciaenid species Mestav, Rebecca	Modeling grass carp reproduction and population expansion in Lake Erie’s western basin Brenton, Brian		Swimming a fine line: How migrating sea lamprey navigate complex habitats Griffin, Kandace	Beaver, Trout, and Infrastructure: Aquatic Organism Passage as a Beaver Management Strategy Collier, Christopher
3:40 PM	Comparing Management Strategies for Shifting Fish Stocks in the Western North Atlantic Dumas, Christopher	Experience matters: Using commercial fisher knowledge to increase Bigheaded Carp harvest Tompkins, Joshua		Multi-year variation of Grass Carp movements in the Sandusky River using acoustic telemetry Colborne, Scott	A watershed-based approach to beaver dam management Myllyoja, Rob

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## Wednesday, August 23, 2023

	Grand Gallery F	Grand Gallery Overlook D	Grand Gallery Overlook F	Grand Gallery Overlook H	River Overlook A
	Adapting to Change in Fisheries Stock Assessment Science Day 2	Invasive Carp Research: Sharing Across Watersheds to Improve Control Efforts - Day 2		Adapting Telemetry Tools, Techniques, and Analyses for Enhanced Understanding and Management of Fishes Day 1	Beaver and Trout Management in the Upper Midwest
4:00 PM	Fisheries-Dependent Indices of Abundance and Mortality Rates for Spot ( <i>Leiostomus xanthurus</i> ) Drzewicki, Maya	Increasing Grass Carp Capture Rates By Leveraging Scaled Habit Information Hunter, Robert		Seasonal movements of Paddlefish in William Dannelly Reservoir, including in the lower Cahaba River. Smith, Chris	A Comparison of Nutrient Export between Beaver and Human-Engineered Ponds Willard, Jayne
4:20 PM	Implications of spatial misalignment in Atlantic cod biology, assessment, and management Brothers, Roger	MUM's the Word: Adapting the Modified-Unified Method for the Upper Mississippi River Loppnow, Grace		Movement, Habitat Selection, and Survival of Largemouth Bass in the Restored Kissimmee River Hyle, Reid	When beavers get burned, do fish get fried? Wildfire and beaver effects on fish in Interior Alaska Samuel, Will
4:40 PM		Use of zooplankton and fish size distributions to establish carp control targets Murry, Brent		Multiple Tracking Methods Reveal Guadalupe Bass Movement is Heterogeneous and Predictable Wolff, Jacob	Panel Discussion on Beaver and Trout Management in the Upper Midwest
5:00 PM					

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## Wednesday, August 23, 2023

	River Overlook B	River Overlook C	River Overlook D	River Overlook E	River Overlook F
	<b>Fisheries and Climate Change 1</b>	<b>Ready, Set, Hire: Building A Sustainable and Diverse Workforce Through Training and Pathways Programs To Increase Fish Careers.</b>	<b>Human Dimensions: Sport Angling</b>	<b>Fisheries Management: Marine and Great Lakes</b>	<b>Downtown with Fish and Friends: Aquatic Ecology in Urban Settings Day 2</b>
8:00 AM		Managing DEIA Successfully Johnson, Melissa	Anticipating angler responses to walleye decline in Wisconsin inland lakes Trudeau, Ashley	Predatory Removals of Forage Species on the Northeast US Shelf Gartland, James	Habitat and Biotic Community Changes due to an Urban Stream Restoration McAndrews, Sydney
8:20 AM	Fine-scale thermal refuge use patterns by brown trout in the Housatonic River, Connecticut Sullivan, Christopher	Resume Building Workshop - New Ideas for a New Generation Huff, Natalie	Valuing the demand for recreational angling opportunities in Utah (USA) Smith, Jordan	A modeling framework for establishing allocation guidance for fishery management needs Maguffee, Alexander	Restoring Water Quality and Fisheries in an Urban Greenway near Pittsburgh, Pennsylvania Shirey, Patrick
8:40 AM	Effects of warming on marine fishes depend on life histories Wang, Hui-Yu		Impacts of Increasing Fishing Power: Assessing the Overfishing Potential of Live-Imaging Sonar Smith, David	Revision of Atlantic Shark Management in the United States DuBeck, Guy	Grand Rapids community efforts to restore fish and water quality in the Grand River Betts, Joel
9:00 AM	Climate effects on food webs and fisheries: A linked earth system model Mason, Doran	Navigating USAJOBS and Applying for Federal Jobs Baron, Christopher	The Importance of Understanding Catchability for Standard Inland Sport Fish Population Surveys Conroy, Joseph	HYDRAULIC IMPACT ON FISH MIGRATION IN A SARIKANDHI FISH PASS OF BANGLADESH. Kumar Ghosh, Bijoy	Water Quality Report Cards for Five Michigan Rivers with Contrasting Anthropogenic Impacts Jeske, Meghan
9:20 AM	Current and future fish distributions and assemblages in the Qinghai-Tibet Plateau rivers Chen, Daqing	Thriving as a Fisheries Professional: 7 Resilience Tips Nesbit, Shivonne	Testing An App Based Fishing Tournament To Estimate a LM Bass Population Simmons, Sean	Spatiotemporal changes in catches of recreational fishes along the US Atlantic coast Wager, Bethany	Lakeshore development impacts food web structure in suburban lakes Jameson, Emily
	<b>Morning Break</b>				
9:40 AM					
10:00 AM	<b>Business Meeting</b>				
12:00 PM	<b>Lunch</b>				
			<b>What does ecosystem management mean to Inland Fisheries Biologists and Managers?</b>	<b>Inland Lakes and Reservoirs: Fisheries and Habitat</b>	<b>Downtown with Fish and Friends: Aquatic Ecology in Urban Settings Day 2</b>
1:20 PM			The Sport Fish Restoration Act - 73 Years of Success! Popoff, Nicholas	Supplemental Habitat Location within a Reservoir Aquatic Landscape and Patterns of Fish Aggregation Facer, Jeremy	Exploring Biomarkers of Stress in Fish: Challenges in Downtown Dwelling(s) Easy, Russell

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## Wednesday, August 23, 2023

	River Overlook B	River Overlook C	River Overlook D	River Overlook E	River Overlook F
			<b>What does ecosystem management mean to Inland Fisheries Biologists and Managers?</b>	<b>Inland Lakes and Reservoirs: Fisheries and Habitat</b>	<b>Downtown with Fish and Friends: Aquatic Ecology in Urban Settings Day 2</b>
1:40 PM			Minnesota Fish-based Lake IBI: Greater Management Abilities Derived from Fish Community Sampling Borgstrom, Lucas	Largemouth Bass CPUE in reservoir coves with and without offshore artificial habitat structures Klein, Nathan	Fish Spawn in Chicago's Backwards-Flowing, Effluent-Driven River? Happel, Austin
2:00 PM			Ecosystem management versus single species management - Introduction of Symposium Murphy, Margaret H.	River-to-reservoir transitional habitat contribution of abiotic and biotic materials to a reservoir. Fick, William	Biomarker Responses in the Muscle of Chrysichthys Nigrodigitatus Caught From Polluted Rivers Ogunbanwo, Olatayo Michael
2:20 PM			<b>Panel Discussion</b>	Lake Ecosystem Responses to Commercial Harvest of Common Carp and Bigmouth Buffalo Simonson, Martin	Impact of Invasive Asian Clam (Corbicula fluminea) on Midwestern Streams' Benthic Ecosystem Suttorp, Taylor
2:40 PM				Length/weight Relationship, Food and Feeding habits of Labeo rohita In Oguta, Imo State, Nigeria UBAH, VENATIUS CHIAMAKA STEVE	Temporal and Spatial Variation in Macroinvertebrate Assemblages in the Ohio River Atutey, Esther
3:00 PM	<b>Afternoon Break</b>				
		<b>Morphometry and Fish Marking</b>	<b>Fish Health: Pathogens, Toxicity, Microplastics</b>	<b>Inland Lakes and Reservoirs: Fisheries and Habitat 2</b>	<b>Downtown with Fish and Friends: Aquatic Ecology in Urban Settings Day 2</b>
3:20 PM		Visibility of oxytetracycline in calcified structures of fishes viewed with standard light Pfennig, Meredith	Population Genetics of Monogenea Gyrodactylidae, Their Prevalence and Epidemiological Impact Bwoga, Julie	Potential Impacts of Large Terminal Lake Desiccation on a Critical Forage Fish Barnes, Sarah	Fish in the city: Urban Runoff Alters the Gut Microbiome and Physiology of Western Mosquitofish Djokic, Matea
3:40 PM		Cisco (Coregonus artedii) Common Garden Experiment Investigating Morphology and Environmental Effects Skubik, Katherine	Likelihood of Eggs as an Entry Pathway for VHSV Into Hatcheries St. Charles, Kaitlyn	Reservoir functional age influences sport fish population characteristics Moore, Hannah	Predictability of predation driven morphological adaptations in populations of western mosquitofish Blanchard, Rose

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## Wednesday, August 23, 2023

	River Overlook B	River Overlook C	River Overlook D	River Overlook E	River Overlook F
		<b>Morphometry and Fish Marking</b>	<b>Fish Health: Pathogens, Toxicity, Microplastics</b>	<b>Inland Lakes and Reservoirs: Fisheries and Habitat 2</b>	<b>Downtown with Fish and Friends: Aquatic Ecology in Urban Settings Day 2</b>
4:00 PM		Does morphology explain differential performance of Black Crappie and White Crappie? Porreca, Anthony	<b>CANCELLED</b> - For Lac of a Better Name: Redefining Piscine Lactococcus Heckman, Taylor	Economic Evaluation of Barriers to Minimize Reservoir Sportfish Escapement Lewis, Madeline	White River Mainstem 2020: An Analysis of the Fish Community and Habitat Gaston, Kevin
4:20 PM		Effects of Morphology on Darter Swimming Speeds Sliger, Ridge	Contamination of selected heavy metals in Limnothrissa miodon in the four strata of Lake Kariba. NAWANZI, KUNDANANJI	Assessment of the sudden drop in water levels of Lake Kalunga. Ajok, Paska	Assessing vulnerability of marine megafauna to global anthropogenic threats VanCompennolle, Michelle
4:40 PM			Microplastics in the gut and gills of Oreochromis niloticus from Lake Victoria Atukwatse, Faith	Monitoring and Mapping of Community owned Fish Sanctuaries in the Lake Malawi Chimpeza, Memory	Supreme Court ruling on Sackett v EPA redefining Waters of the United States (WOTUS): What does it mean for wetlands, streams, and fish? Colvin, Susan
5:00 PM					

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**Thursday, August 24, 2023**

	Grand Gallery A	Grand Gallery B	Grand Gallery C	Grand Gallery D	Grand Gallery E
	<p><b>North American Sturgeon and Paddlefish: Challenges to Adaptive Management During Ecosystem Change Day 3</b></p> <p><b>Introduced and Invasive Species: Monitoring, Management, and Ecology Day 4</b></p> <p><b>Habitat heterogeneity in Lake Michigan: Implications for Food Webs, Fish, and Fisheries - Day 2</b></p> <p><b>A Fisheries Biologist's Guide to Using Human Dimensions Data</b></p> <p><b>Coast to Coast: Strategies, Tools, and Approaches for Applied Management of Salmonids Day 3</b></p>				
8:00 AM	Evaluation of Minimally Invasive Metabolomic Methods for Assessing the Sex and Health of Sturgeon Ekman, Drew	Round Goby (Neogobius melanostomus) Electrical Field Immobilization Thresholds and Swimming Speeds Kent, Jason	Effects of the Thermal Bar on Density and Distribution of Plankton and Larval Fish in Lake Michigan Tomczak, Maddie	This Is The Way: An Introduction To Human Dimensions Research Crandall, Chelsey	
8:20 AM	Abundance Estimate for Juvenile Atlantic Sturgeon in the Carolina Distinct Population Segment Carty, Dani	Effects of invasive riparian Giant Reed on an arid stream food web Soliz, Lauren	Bottom-up modeling of ecosystem processes to simulate recruitment of two Lake Michigan fishes Gardner, Spencer	2022 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation: Redesign and Results Aiken, Richard	
8:40 AM	Seasonal Variation of Riverine Habitat Use for Adult Atlantic Sturgeon in SC. Hood, David	Can mechanical removal of invasive cattail benefit fish communities in inland lakes? Schrank, Amy	Heterogeneity of UV-exposure drives spatial abundance and vertical depth of larval fish. Berry, Nicole	CreelCat: A Catalog and Interface for Accessing US Inland Creel and Angler Survey Data Sievert, Nicholas	Informing management decisions through collaborative data exchange in the Pacific Northwest Williams, Mari
9:00 AM	Validated Field Sex Identification for Paddlefish- A Comparison of Two Methods Schooley, Jason D.	Assessment of the invasive Australian red claw crayfish in Zambia's water bodies Nambeye, Eva	Quantifying the importance of alternative nursery habitats to alewife recruitment in Lake Michigan Warren, Les	Recreational and Economic Aspects of the Great Lakes Fisheries Cornicelli, Lou	Brook Trout Restoration in Iowa using Multi-Pass Electrofishing to Removal Nonnatives Schnitzler, Caleb
9:20 AM	Influence of water temperature variation on settling time of larval Pallid Sturgeon Erceg, Maria		Importance of estuarine habitats for Steelhead smolt survival, population abundance, and fisheries Rutherford, Edward	Disentangling Social Science and Public Input in Fisheries Management Longmire, Cynthia	Application of USFWS Policy Tools for Species Recovery – Bull Trout Betances, Samantha
	<b>Morning Break</b>				
9:40 AM					
10:00 AM	Depensation in fish recruitment driven by context-dependent interactions with another predator Dassow, Colin			Early Planning Leads to Success in Human Dimensions Studies: Examples from Iowa Krogman, Rebecca	

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## Thursday, August 24, 2023

	Grand Gallery A	Grand Gallery B	Grand Gallery C	Grand Gallery D	Grand Gallery E
	<b>Research to inform walleye management: Native, introduced, and invasive aspects</b>		<b>Habitat heterogeneity in Lake Michigan: Implications for Food Webs, Fish, and Fisheries - Day 2</b>	<b>Coolwater Aquaculture Workshop - Challenges, Updates, and Continued Collaboration</b>	
10:20 AM	Factors affecting Walleye and Sauger recruitment in Lewis and Clark Lake, SD Radigan, William		Fish communities at a shallow-water artificial reef in southwestern Lake Michigan Glandon, Hillary	Can License Sale or Membership Databases Reveal Social-ecological Relationships? Kaemingk, Mark	
10:40 AM	Empirical evaluation of walleye thermal-optical habitat in northern Wisconsin lakes Vasquez, Ben		Spawning Habitat Differences Between Cisco and Lake Whitefish Across a Reef Complex Herbert, Matthew	Let's talk about the elephant in the room: Power and influence in fisheries management Hervas, Susana	
11:00 AM	Diverging Patterns in Recruitment Synchrony between Ohio River and Reservoir Sander spp. Populations Pritt, Jeremy		Insights into spatial patterns of energy flow through Great Lakes prey fish Brewin, Jordan	Situation assessment in fisheries management Lorenzen, Kai	
11:20 AM	Tissue-Specific Differences in Stable Isotope Estimates of Walleye Consumption of Stocked Salmonids Jaksha, Nathan		Trophic Structure of Nearshore Foodwebs in Lake Michigan via Stable Isotope Analysis McNaught, Scott	<b>Interactive Session-- Pros and Cons of Various Sampling Techniques</b>	
11:40 AM		Testing food web theory in large lakes: the role of body size in habitat coupling in Lake Michigan Maitland, Bryan			
12:00 PM	<b>Lunch</b>				
	<b>Research to inform walleye management: Native, introduced, and invasive aspects</b>		<b>Habitat heterogeneity in Lake Michigan: Implications for Food Webs, Fish, and Fisheries - Day 2</b>	<b>Coolwater Aquaculture Workshop - Challenges, Updates, and Continued Collaboration</b>	
1:20 PM	Evidence of In-Lake Spawning Walleye in the Central Basin of Lake Erie Montague, Graham		Spatiotemporal patterns of aquatic biota abundance in Green Bay Zorn, Troy	Does It Mean What You Think? Reducing Bias in HD Research. Crandall, Chelsey	

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	Grand Gallery A	Grand Gallery B	Grand Gallery C	Grand Gallery D	Grand Gallery E
	<b>Research to inform walleye management: Native, introduced, and invasive aspects</b>		<b>Habitat heterogeneity in Lake Michigan: Implications for Food Webs, Fish, and Fisheries - Day 2</b>	<b>Coolwater Aquaculture Workshop - Challenges, Updates, and Continued Collaboration</b>	
1:40 PM	Examination of Walleye age-structure in Saginaw Bay spawning tributaries Gostiaux, Jason		Temporal and spatial trends in Lake Michigan piscivore diets from 2017-2021 Roth, Brian	Did You Lobster? Exploring Effects of Survey Mode on a Fisheries Survey Lehmensiek, May	
2:00 PM	Density-dependence of Walleye growth and condition in a warming climate Almeida, Zoe		Ontogenetic foraging plasticity of Lake Michigan fishes using eye lens stable isotopes Skiles, Taylor	What makes anglers happy: a sentiment analysis of walleye angler forums in the United States Venturelli, Paul	
2:20 PM	Is There Enough Room in the Sandbox for Walleye and Alewife? Zebro, Logan		Fish Use of Drowned River Mouths: A Transitional Habitat in Lake Michigan Ruetz, Carl	Guardians of the Sea: Fisher Perceptions on MPAs in the Philippines Marriott, Sara	
2:40 PM	Delineation of walleye stock structure in Lake Superior Cristan, Erik			Angling for anglers: using population segments to catch and keep license holders Hrabowski, Josef	
3:00 PM	<b>Afternoon Break</b>				
	<b>Research to inform walleye management: Native, introduced, and invasive aspects</b>		<b>Habitat heterogeneity in Lake Michigan: Implications for Food Webs, Fish, and Fisheries - Day 2</b>	<b>Coolwater Aquaculture Workshop - Challenges, Updates, and Continued Collaboration</b>	
3:20 PM	Binging, band-aids, and boulders....the plight of managing Walleye in hydrodynamic reservoirs Koupal, Keith			Biological and Human Dimensions Data: How to Balance Both for Fisheries Management Decision Making Martin, Allen	
3:40 PM	Walleye (Sander vitreus) length influences reproductive phenology Koenigbauer, Scott			Using human dimensions data to help manage Florida's Lake Istokpoga Menendez, Sara	
4:00 PM				Integrating Diverse Stakeholder Knowledge in Recreational Fisheries Decision Making Camp, Edward	

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## Thursday, August 24, 2023

	Grand Gallery A	Grand Gallery B	Grand Gallery C	Grand Gallery D	Grand Gallery E
				<b>Coolwater Habitat heterogeneity Aquaculture Workshop - Challenges, Updates, and Continued Collaboration</b>	
4:20 PM					
				<b>Closing Discussion</b>	
4:40 PM					

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## Thursday, August 24, 2023

	Grand Gallery F	Grand Gallery Overlook B	Grand Gallery Overlook C	Grand Gallery Overlook D	Grand Gallery Overlook H
	<b>Offshore Wind, Fish, and Fisheries – Emerging Knowledge and Applications</b>	<b>Getting it Right: Conservation Aquaculture for Recovery, Restoration and Supplementation</b>	<b>Physiology and Bioenergetics</b>	<b>Invasive Carp Research: Sharing Across Watersheds to Improve Control Efforts - Day 3</b>	<b>Adapting Telemetry Tools, Techniques, and Analyses for Enhanced Understanding and Management of Fishes Day 2</b>
8:00 AM	Assessing commercial fishery displacement from wind energy in the GoM using big data McPherson, Matthew	The Aquaculture Answer – Building Collaboration in Adaptive Conservation Wilke, Nathan	Using the electron transport system as an indicator of organismal thermal tolerance Stell, Ehlana	Autonomous technology for blocking and removing carp during seasonal migrations Bajer, Przemek	Does Walleye Spatial Segregation During Spawning Persist Throughout Other Seasons? Rude, Claire
8:20 AM	Seeking growth in both US seafood production and offshore wind development Sippel, Timothy	Propagation for Recovery and Restoration: a Review of Twenty Priority Programs Lipscomb, Taylor	Climate change and individual variation in thermal performance of wild Brook Trout Hartman, Kyle	Comparing Mobile Tracking Methods for Improving Aggregate Proxy Strategies for Grass Carp Kemp, Christopher	Are artificial spawning reefs equally attractive to wild and stocked lake char? Marsden, J. Ellen
8:40 AM	Stock Enhancement and Offshore Wind Bingham, Matthew	Science-driven Hatchery Practices Improve Lake Sturgeon Genetic Diversity and Post-Release Survival Scribner, Kim		Understanding Grass Carp migratory groups and movement in the Lake Erie to inform removal efforts. Roberts, James	Fish Habitat Selection in Arizona’s Verde River Watershed: Insights from Radiotelemetry Surveys Gahl, Kaitlyn
9:00 AM	Crustacean and Fish Responses to an Offshore Wind Farm Wilber, Dara	Kansas Aquatic Biodiversity Center Propagation Efforts Shipley, Keifer		Assessing habitat use and preference of Silver carp in an un-impounded river Blair, Coy	Engaging Local Communities to Establish the First Acoustic Telemetry Network in Cambodia Eschenroeder, Jackman
9:20 AM	A Regional Cross-Project Resource Trawl Survey for Offshore Wind Pol, Mike			Comparative efficacy of electric fish handling gloves, MS-222, and Eugenol Mueller, Andrew	Bayesian estimation of spatially varying mortality risk using tagged animal data Poulton, Anna
	<b>Morning Break</b>				
9:40 AM					
10:00 AM	Regional Research and Monitoring to Support Offshore Wind in New Jersey Brust, Colleen	Diet assessment of thiamine deficient California Chinook salmon using fatty acid signatures Ludwig, Jarrod	Effects of fish predation on a nearshore mysid community during August–October in the Patuxent River Collins, Lael	Evaluation of Silver Carp Tributary Movements with Potential Metapopulation Implications Boekhout, Brandt	

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	Grand Gallery F	Grand Gallery Overlook B	Grand Gallery Overlook C	Grand Gallery Overlook D	Grand Gallery Overlook H
	<b>Adapting to Change in Fisheries Stock Assessment Science Day 1</b>	<b>Getting it Right: Conservation Aquaculture for Recovery, Restoration and Supplementation</b>	<b>Multi-species Interactions: Diets, Habitat, Predation</b>	<b>Invasive Carp Research: Sharing Across Watersheds to Improve Control Efforts - Day 3</b>	<b>Growing Fisheries Reserach and Management throuhg Angler Engagement</b>
10:20 AM	Environmental DNA Effectively Characterizes Pre-construction Fish Communities at Offshore Wind Sites O'Leary, Shannon	Characterizing Microplastic Hotspots from the Apalachicola Watershed to the Apalachicola Bay Turner, DeMarcus	Asymmetric competition among stream fishes: Do food web pathways mediate competitive outcomes? George, Owen	Diel Movements and Macrohabitat Use of Silver Carp in Arkansas Althoff, Andrew	Integration of disparate data for interjurisdictional fisheries Kraus, Richard
10:40 AM	Advancing alternative survey technologies for offshore wind monitoring Cassidy, Kyle	Development of objective methods for interpreting ultrasonographic images to sex of sturgeon Litvak, Matthew	Competition between Round Goby and Slimy Sculpin in a Laboratory Setting Hoekwater, Joshua	Factors Affecting Invasive Carp Residency Patterns in Small Missouri River Basin Streams Renner, Seth	Modeling Smolt-to-Adult Survival of Salmon Using Mark-Recapture-Recovery Faulkner, James
11:00 AM	Shifts in Techniques for Offshore Wind Fisheries Monitoring Gervelis, Brian		Native southwestern fishes select different habitat when an introduced piscivore is present Jenney, Christopher	Occupancy and demographics of Bighead and Silver carps in the lower Red River catchment Brewer, Shannon	Fine-scale diadromous fish movement patterns at a large nature-like fishway Bunch, Aaron
11:20 AM	Evaluating the Impacts of Windfarm Construction on Structure-Associated Species off New Jersey Zemeckis, Douglas			Rapid Emigration Behavior in Silver Carp Using Multiple Stimuli Ridgway, Josey	Techniques for Evaluating Fish Passage and Deterrents at Navigation Dams Fritts, Andrea
11:40 AM					
12:00 PM	<b>Lunch</b>				
	<b>Adapting to Change in Fisheries Stock Assessment Science Day 1</b>		<b>Multi-species Interactions: Diets, Habitat, Predation</b>	<b>Invasive Carp Research: Sharing Across Watersheds to Improve Control Efforts - Day 3</b>	<b>Growing Fisheries Reserach and Management throuhg Angler Engagement</b>
1:20 PM	<b>Dsicussion</b>				Upstream and downstream dam passage of adult Alewife on the St. Croix River Hickox, Emilie

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	Grand Gallery F	Grand Gallery Overlook B	Grand Gallery Overlook C	Grand Gallery Overlook D	Grand Gallery Overlook H
	<b>Adapting to Change in Fisheries Stock Assessment Science Day 1</b>		<b>Multi-species Interactions: Diets, Habitat, Predation</b>	<b>Invasive Carp Research: Sharing Across Watersheds to Improve Control Efforts - Day 3</b>	<b>Growing Fisheries Reserach and Management throuhg Angler Engagement</b>
1:40 PM	<b>Dscussion</b>			Guiding an Electric Barrier Design with Finite Element Modeling Hartshorn, Caylin	Assessment of juvenile Chinook Salmon migration from floodplains in the Sacramento Valley Wampler, Alexandra
2:00 PM				Physiological and Behavioral Responses of Carp to Amino Acids: Avoidance or Attraction? Wildhaber, Mark	Movements and survival of hatchery reared juvenile cisco in Saginaw Bay, Lake Huron Hayden, Todd
2:20 PM				Multi-modal deterrent effects on silver carp behavior downstream of a navigation lock Stanton, Jessica	How does Atlantic salmon smolt size influence predation risk? Mensingher, Matthew
2:40 PM				Multi-modal deterrent effects on invasive carp and native species at navigation lock Gibson-Reinemer, Dan	Survival and detection frequency of acoustic tagged Yellow Perch in Lake Erie Dufour, Mark
3:00 PM	<b>Afternoon Break</b>				
	<b>Innovative Advances in the Application of BRUV's for Surveying Fisheries Resources</b>			<b>Invasive Carp Research: Sharing Across Watersheds to Improve Control Efforts - Day 3</b>	
3:20 PM	Using BRUVs To Evaluate Impacts Of Windfarm Construction On Fisheries Resources Morson, Jason			Fish Assemblage Effects of Bigheaded Carp Establishment in the Lower Mississippi River Jackson, Glen	
3:40 PM	Use of BRUV's for Fisheries Monitoring at an Offshore Wind Farm Gervelis, Brian			Environmental Influences on Silver Carp Population Ecology across the Mississippi River Basin Stevens, Jeff	
4:00 PM	Underwater video reveals how life history may influence the interpretation of survey data Rillahan, Chris			Notorious Bighead Carp in a Disconnected Oklahoma System Gainer, Elaine	

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	Grand Gallery F	Grand Gallery Overlook B	Grand Gallery Overlook C	Grand Gallery Overlook D	Grand Gallery Overlook H
	<b>Innovative Advances in the Application of BRUV's for Surveying Fisheries Resources</b>			<b>Invasive Carp Research: Sharing Across Watersheds to Improve Control Efforts - Day 3</b>	
4:20 PM	Use of S-BRUV systems for multi-agency fisheries surveys Caron, Rebecca			Panel Discussion	
4:40 PM	Application of Automated Processing for Gulf of Mexico Video Surveys Thomas, Sara				

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## Thursday, August 24, 2023

	River Overlook A	River Overlook B	River Overlook C	River Overlook D	River Overlook E
	<b>Multi-method surveys, modeling and eDNA</b>		<b>Incorporating DEIJA Activities: Where to Begin?</b>	<b>Rivers: Population Demographics and Distribution</b>	<b>Biology and Management of Lampreys in a Rapidly Changing Landscape</b>
8:00 AM	Tracking dispersal and growth of larval fish using traditional and novel approaches Algayer, Tait		<b>Discussion</b>	Testing the Abundant Center Hypothesis with Stream Fish Distributions Zink, Matthew	<b>Opening Remarks</b>
8:20 AM	Supplementing Fisheries Surveys in Coastal Massachusetts with eDNA Metabarcoding O'Donnell, Tim			Population Demographics of Northern Pearl Dace in the Nebraska Sandhills Ecoregion Spooner, Joe	The herculean task of controlling invasive sea lamprey in the Great Lakes Siefkes, Michael
8:40 AM	Bridle Shiner Distribution and Habitat in Maine: A Multi-Method Approach Katz, Lara		Mixed Methods as a DEIJA Tool: Perspectives from Fisheries Social Scientists Rice, Emma	Return Patterns and Site Fidelity of Tributary Spawning Flannelmouth Sucker (Catostomus latipinnis) Bonjour, Sophia	Overcoming Communications Challenges in the Great Lakes: A Sea Lamprey Case Study Carter, Christina
9:00 AM	A Multigear Approach Assessing Channel Catfish Stocking Practices in Four Illinois Impoundments Rosandich, Mitchell		Survey says: Needs of students and ECPs not met within the NCD Valentine, Shaley	Developing species distribution models to update stream biological characterizations and assessments Schartel, Tyler	Sea lamprey control in the Great Lakes: Shifting baselines and social acceptability Gaden, Marc
9:20 AM	Bayesian hierarchical models provide new life in estimating species accumulation curves Toavs, Tim		Experiences of an Unrepresentative to Bring Meaningful Change to the Fisheries Profession Wells, Susan	Influences of Anthropogenic Stressors on Stream Fish: Regional Trends of Biodiversity Indices Thornbrugh, Darren	Deploy and evaluate sea lamprey controls that supplement lampricides and barriers Johnson, Nicholas
	<b>Morning Break</b>				Evaluating Supplemental Controls on Sea Lamprey in the Great Lakes Using Genomics Fong, Steven
9:40 AM					
10:00 AM	Genomic tools for monitoring aquaculture-based enhancement efforts in the Gulf of Mexico Monroe, Alison		<b>Discussion</b>	Community ecology mechanisms underlying fish species-discharge relationships are scale dependent Mangold, Rebecca	<b>Morning Break</b>

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## Thursday, August 24, 2023

	River Overlook A	River Overlook B	River Overlook C	River Overlook D	River Overlook E
	<b>Population Genetics and eDNA</b>		<b>Incorporating DEIJA Activities: Where to Begin?</b>	<b>Rivers: Watersheds and Land Use</b>	<b>Biology and Management of Lampreys in a Rapidly Changing Landscape</b>
10:20 AM	Whole genome re-sequencing of Chinook salmon to estimate standing variation across populations Horn, Rebekah			Flow-ecology and land-use relationships of a large, diverse warmwater fish assemblage in the Red Riv Mollenhauer, Robert	Are Environmental DNA (eDNA) Protocols Effective for Sea Lamprey Larval Assessment? Docker, Margaret
10:40 AM	Benefits and challenges of using eDNA and eRNA for fish passage species detection and enumeration Moody, Kristine			Cumulative effects in salmon watersheds: towards linking knowledge and policy Ulaski, Marta	Blocking Primer Development for Molecular Diet Analysis of Sea Lamprey ( <i>Petromyzon marinus</i> ) O'Kane, Conor
11:00 AM	Aquatic biomonitoring with eDNA and eRNA: a mesocosm study assessing temporal-scale dynamics of biod Gardner, Steven			Influence of land use on distribution and diversity of tropical riverine fishes in Kenya Masese, Frank	Sex Determination in Sea Lamprey: One Small Step Towards Genetic Control Docker, Margaret
11:20 AM				Symptoms of a syndrome: Linking stream fish functional traits to riverscape alterations Santee, Noah	Sea lamprey host species and physiological effects in Great Lakes salmonines Kornis, Matthew
11:40 AM					Factors influencing the relationship between sea lamprey, their hosts, and observed wounding Ivan, Lori
12:00 PM	<b>Lunch</b>				
	<b>Genetics: Species Specific</b>	<b>Failing Successfully: How unexpected results improve fisheries science</b>	<b>Fisheries and Climate Change:2</b>	<b>Survey Methods: New Technologies and Software</b>	<b>Biology and Management of Lampreys in a Rapidly Changing Landscape</b>
1:20 PM	Jonah Crab Population Genomics in the Northwest Atlantic for Stock Delineation Comb, Dylan	Clear as Mud: Redefining Fish Tolerance with Habitat Data Holloway, Drew	Documenting Barriers to Climate Adaptation Among State Fisheries Management Agencies Brumm, Kyle	SmartPass: Innovative Fishing Monitoring Using Shore-Based Cameras and Artificial Intelligence Tate, Brian	A Novel Modeling Framework For Quantifying Stream Fish Population Dynamics Lewandoski, Sean

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## Thursday, August 24, 2023

	River Overlook A	River Overlook B	River Overlook C	River Overlook D	River Overlook E
	<b>Genetics: Species Specific</b>	<b>Failing Successfully: How unexpected results improve fisheries science</b>	<b>Fisheries and Climate Change:2</b>	<b>Survey Methods: New Technologies and Software</b>	<b>Biology and Management of Lampreys in a Rapidly Changing Landscape</b>
1:40 PM	Genomic Variation of Brook Trout Along the Minnesota Shoreline of Lake Superior Kline, Benjamin	A whole-ecosystem test of species interactions in a warming food web Embke, Holly	Predicting how climate change could alter angler effort Maldonado, Matthew	DIGITILIZATION OF FISHERIES DATA Busumprah, Peter	Pheromone Behavioral Antagonists Disrupt Attraction and Spawning of Invasive Sea Lamprey Scott, Anne
2:00 PM	Conservation Genetics of White Sturgeon (Acipenser transmontanus) in the Columbia River Willis, Stuart	Understanding Sources of Data Mismatch When Ground-Truthing Side-Scan Sonar Surveys Fischer, Jason	Spatial and Temporal Variability in Michigan Lake Fish Assemblages over 125 Years Wehrly, Kevin	Technology creep in inland recreational fisheries? Yff, David	Using an operating model to evaluate strategies to control invasive sea lamprey Dawson, Heather
2:20 PM	Genetic structure across Ohio populations of Largemouth Bass (Micropterus salmoides) Finigan, Rachael	Acoustic Tagging Reveals Bass Movement that Conventional Tagging Couldn't Slagle, Zak	Challenges Evaluating Reservoir Fish Habitats in a Changing Climate Shoemaker, Darren	iFISH - A Community Fisheries Assessment Tool: Application in Cambodia Correa, Sandra	Implications of Warming Waters on Sea Lamprey Control in the Great Lakes Wilkie, Michael
2:40 PM		Failure only occurs if nothing is learned: incorporating testable predictions into monitoring Mather, Martha	Fish thermal guild drives foraging, growth, and fishing opportunity under climate change Wszola, Lyndsie		Influence of temperature and food on growth of wild-caught larval sea lamprey Searcy, Trisha
3:00 PM	<b>Afternoon Break</b>				
		<b>Failing Successfully: How unexpected results improve fisheries science</b>		<b>Survey Methods and Assessments</b>	<b>Biology and Management of Lampreys in a Rapidly Changing Landscape</b>
3:20 PM		Lessons Learned from a Grass Carp eDNA Field Study DeHaan, Patrick		Quality assurance and control in a Great Lakes age assessment program Traynor, Dan	Influence of Temperature and Salinity in the Sea Lamprey (Petromyzon marinus) Metabolism Barany, Andre
3:40 PM		What a series of citizen science fishing tournaments can tell us about failure and resilience Kopaska, Jeff		AFS Standard Methods for Sampling North American Freshwater Fishes 2nd Edition Bonar, Scott	Sea Lamprey Stress Physiology: Recent Studies with Thermal, Salinity, and Handling Stressors Shaughnessy, Ciaran
4:00 PM		Rapid Detection of Atlantic Salmon And Trout in the Lake Champlain Basin Using Environmental DNA Persbyn, Carrienne		Multifaceted Evaluation of a Long-term Freshwater Fisheries Monitoring Program Bonvechio, Kimberly	Potential for post-copulatory reproductive isolation via sperm chemosensation in lampreys Buchinger, Tyler

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## Thursday, August 24, 2023

	River Overlook A	River Overlook B	River Overlook C	River Overlook D	River Overlook E
		<b>Failing Successfully: How unexpected results improve fisheries science</b>		<b>Survey Methods and Assessments</b>	<b>Biology and Management of Lampreys in a Rapidly Changing Landscape</b>
4:20 PM		Perseverance in Captive Rearing of the Sonora Sucker: Managing for Survival First Saucier, Taylor		Developing an Aquatic Macrophyte Survey Protocol for Michigan's Inland Lakes: 2022 Findings Engelman, Molly	A global horizon scan for lamprey management
4:40 PM		Converting Back Steps to Leaps Forward Bryan, Vincent			

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## Thursday, August 24, 2023

River Overlook F	
Marine/Estuarine: Fisheries and Habitat	
8:00 AM	Spatial and temporal patterns of Atlantic Angel sharks within Mid-Atlantic Bight Maguire, Jessica
8:20 AM	Reproductive Potential of Gray Snapper in Spawning Aggregations off the West Coast of Florida Wechsler, Ashley
8:40 AM	Seascape Quality in Virginia: As Seen By Juvenile Summer Flounder Smith, Shannon
9:00 AM	Quantifying fish habitat provision of oyster aquaculture in Delaware Bay U.S.A. Campbell, Brendan
9:20 AM	The Ecosystem-Scale Impacts of Living Habitat Change in Virginia's Middle Peninsula Woodstock, Matt
	<b>Morning Break</b>
9:40 AM	
10:00 AM	Analyses of the Chesapeake Bay's Longest Scientific Blue Crab ( <i>Callinectes sapidus</i> ) Survey Bevans, Amanda

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## Thursday, August 24, 2023

River Overlook F	
<b>Marine Fisheries: Population Dynamics</b>	
10:20 AM	An Evaluation of Ecological Niche Structure Across Gestation in Spiny Dogfish DeVries, Caroline
10:40 AM	The artisanal Callinectes spp. crab fishery in Puerto Rico: multi-species abundance and reproductive Schott, Eric
11:00 AM	Blue Crab ( <i>Callinectes sapidus</i> ) Population Characteristics and Blue Crab Pathogenic Virus Detection Ramos, Juan
11:20 AM	
11:40 AM	
12:00 PM	
<b>Population Dynamics</b>	
1:20 PM	Sex-specific variability in population demographics of Sicklefin Redhorse ( <i>Moxostoma</i> sp.) Walther, Eric

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## Thursday, August 24, 2023

River Overlook F	
Population Dynamics	
1:40 PM	Population structure and effective population size of Flathead Catfish in Missouri Krolow, Aaron
2:00 PM	How Do Wildfires Affect Alaskan Chinook Salmon? Evidence from Rivers and Satellites Schoen, Erik
2:20 PM	The ecological effects of sub-daily flow variability on riverine fishes: a systematic review Bozeman, Bryan
2:40 PM	Ecology operation mechanism based on natural reproduction requirement of the Four Major Chinese Carp Chen, Daqing
3:00 PM	
3:20 PM	
3:40 PM	
4:00 PM	

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River Overlook F	
4:20 PM	
4:40 PM	

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