

SUNDAY, NOVEMBER 7

	Johnson A Room, Hilton	Johnson B Room, Hilton	Latrobe Room, Hilton	Peale A, Hilton	Peale B, Hilton	Peale C, Hilton	Promenade, Marriott	Stadium 1 Room, Marriott	Stadium 3 Room, Marriott	University 1, Marriott
	Contributed Papers: Invasive Carp	Contributed Papers: Marine Fish Ecology	Inland fishes and fisheries with global change	Advances in life history and environmental reconstruction using biogenic structures from organisms	Contributed Papers: Marine Habitats and Management	Native fish restoration in lakes- how can history inform the future?	Climate change effects on fish and fisheries: Understanding, forecasting, and communicating impacts	Scale V.2021: Choosing & Matching scales for aquatic field data: status, options, and knowledge gaps	Contributed Papers: Fishery dependent observing and monitoring	Growing fisheries research and management through angler engagement
8:00 AM		Diet of Crevalle Jack (Caranx hippos) in the north-central Gulf of Mexico <i>Jargowsky, Matthew</i>	Climate Change Effects on North American Fishes to Inform Adaptation Strategies <i>Paukert, Craig</i>	Emerging methods in analyses of continually growing structures (CoGS) in marine mammals <i>Crain, Danielle</i>	Decadal Changes in Reef Fish Diversity in the Philippines <i>Whalen, John</i>	(Cancelled) Comparing Historical and Contemporary Cisco Morphology	Untangling the effects of hydrologic change on trout in Wisconsin streams <i>Maitland, Bryan</i>	Scale V.2021: Identifying Current Issues that Address Future Needs for Making Scale Choices that ... <i>Hitchman, Sean</i>	Using a fishery-dependent research fleet approach to characterize the composition of black sea ba... <i>Verkamp, Hannah</i>	Introduction
8:20 AM	Quantifying How Orientation Affects Target Strengths of Silver Carp (Hypophthalmichthys molitrix)... <i>Peters, Andrew</i>	Crevalle Jack (Caranx hippos) Age and Growth in the Gulf of Mexico <i>Jefferson, Amanda</i>	The Fish and Climate Change (FiCli) Database Findings on Climate Change Impacts and Management Ac... <i>Zhang, Ray</i>	Inferring life history variation in spatial, trophic and physiological ecology through compound-s... <i>Trueman, Clive</i>	Implications of community-based management of marine reserves in the Philippines for reef fish co... <i>Marriott, Sara</i>	An Adaptive Management Approach to Restoring Paddlefish in Oklahoma Reservoirs <i>Long, Jim</i>	Scale dependencies of intrinsic climate sensitivity for freshwater fishes of the United States <i>Silknetter, Sam</i>	Considering questions of scale in research: examples from lotic, lentic, and coastal systems <i>DeVries, Dennis</i>	Electronic Technologies in the United States Atlantic Pelagic Longline Fishery <i>Miller, Ian</i>	Keynote
8:40 AM	Detection and Occupancy Probability of Bigheaded Carp and Native Fish Larvae in the Upper Mississ... <i>Yff, David</i>	The Bigger, Older, Fatter, and More Fecund Female (BOFFF) Factor in Greater Amberjack (virtual) <i>Murie, Debra</i>	Fishers' Response to Temperature Change Reveals the Importance of Integrating Human Behavior in C... <i>Fiorella, Katie</i>	Reconstructed trophic and geographic histories of reef-dwelling and migratory fishes based on eye... <i>Wallace, Amy</i>	Diversity patterns of subtropical fish assemblages on artificial and natural reefs in the eastern... <i>Schram, Michael</i>		THE EFFECT OF RUNOFF INDUCED RAPID TEMPERATURE CHANGE ON THE PHYSIOLOGICAL PERFORMANCES OF BLACKN... <i>Gruber, Danielle</i>	Landscape-scale trends in stream fish data collection locations across the U.S.: Challenges and o... <i>Infante, Dana</i>	Crabs are like fish, only different <i>Stevens, Bradley</i>	Keynote
						Contributed Papers: Reservoir fisheries management				

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9:00 AM	Determining how invasive Silver Carp (<i>Hypophthalmichthys molitrix</i>) influence trophic structure of... <i>Kowalski, Justin</i>	Modeling the energetic implications of early life responses to ocean acidification in an estuarine... <i>Schwemmer, Teresa</i>	Predicting future using experience from artificially heated water systems: impacts on stock production... <i>Audzijonyte, Asta</i>	Stable isotopes of sea lamprey lenses used to explore at sea behavior <i>Evans, Thomas</i>	Identifying drivers of coral-reef fish biomass in the Florida Keys to assess potential management... <i>Zuercher, Rachel</i>	Wicked problems and messy data: assessing the effects of zebra mussels on walleye recruitment in ... <i>Kundel, Holly</i>	Performance consequences of thermal adaptation in geothermal sticklebacks <i>Smith, Bethany</i>	Barrier removal and remediation in the Great Lakes: Accounting for scale in the decision process <i>Robinson, Kelly</i>	Using fishing gears and species caught by foreign fleets to understand differential African marine... <i>Nyameke, Isaac</i>	Fish are Just Like Birds! (?) <i>Bonney, Rick</i>
									Contributed Papers: Fishery Statistics	
9:20 AM	An experimental assessment of mollusk vulnerability to juvenile Black Carp predation <i>Runyon, Andrew</i>	Quantifying the response of the estuarine nekton community following restoration of coastal wetlands... <i>Mahoney, Richard</i>	The Road of Good Intentions for Mitigating Hydropower Impacts on Fisheries <i>Claussen, Julie</i>	New tools to measure restoration success: eye lenses archive juvenile habitat use of adult salmon... <i>Jeffres, Carson</i>	Spatiotemporal variation of an Eastern Tropical Pacific pelagic vertebrate community assessed with... <i>Plum, Tyler</i>	Influence of Blueback Herring, <i>Alosa aestivalis</i> , in a Reservoir <i>Stell, Ehlana</i>	Investigating the effects of multiple flow regime characteristics on recruitment of age-1 Atlantic... <i>Baker, Michael</i>		Time to publish? Turnaround times, rejection rates, and impact factors of journals in fisheries science... <i>Runde, Brendan</i>	Forced Marriage Or Perfect Union? Over 20 Years Building and Maintaining Angler Engagement to Keep... <i>Schreier, Sarah</i>
10:00 AM	Evaluating alternative common carp control strategies in a large, dynamic, open ecosystem <i>Wallace, Ellie</i>	Community dynamics of estuarine forage fishes <i>Peake, Jonathan</i>	Structure and scale in spatially synchronous southeastern US trout populations <i>Valentine, George</i>	Tracking fish dietary changes in response to hypoxia using the elemental and isotopic composition... <i>Miralay, Hadis</i>	Ocean quahogs: a glimpse into the population structure of the longest-lived bivalve on Earth using... <i>Hemeon, Kathleen</i>	Enhancing capacity of the Midwest Glacial Lakes Partnership: Improved information on glaciated... <i>Ross, Jared</i>	Evaluating the Effectiveness of Great Lakes Sea Lamprey Control Barriers in an Uncertain Climatic... <i>Buckley, Connor</i>	Uncertainty in Spatial Scaling: Revisiting Thresholds in Fisheries Data <i>Garvey, James</i>	Evaluating the Performance of Methods Used to Estimate Growth Parameters from Subsampled Age Data <i>Middaugh, Chris</i>	Texas Trash to Texas Treasure – Angler Involvement in Management and Research of the Alligator Gar <i>Daugherty, Dan</i>
			Contributed Papers: Black Bass							
10:20 AM	Exploring Invasive Carp Reproduction in Small Rivers of Illinois <i>Landry, Adam</i>		Movement Dynamics and Habitat Use of Suwannee Bass in Georgia <i>Yeager, Joel</i>	Can otolith microchemistry be used to quantify fish movement downstream of a hydropeaking dam?	Examining spatial heterogeneity trends in ocean quahog growth and recruitment <i>Sower, Jillian</i>	Comparison of fishery-dependent and fishery-independent Common Carp and Bigmouth Buffalo mark-recapture... <i>Annear, Andrew</i>	Asynchronous responses to common climate forcing among brook trout populations in Cape Race, Newfoundland... <i>Gallagher, Brian</i>	A Novel Bioeconomic Approach to Improve Allocation Processes for Living Marine Resources <i>Meyers, Stephen</i>	Tournament Talks: Will anglers engage and participate in virtual webinars? <i>Hamilton, Shayna</i>	

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10:40 AM	Evaluating movement of Silver Carp in an oxbow lake to inform barrier placement and operation <i>Besson, Jordan</i>	Evaluating the impacts of Atlantic striped bass harvest control rules on their prey, Atlantic men... <i>Schiano, Samantha</i>	Evaluation of lake-wide population characteristic differences between the Northern Largemouth Bass <i>Middaugh, Chris</i>	Lifetime-scale Red Grouper ontogenetic movement and diet shifts using a combination of traditional... <i>Vecchio, Julie</i>	Collaborative modeling of Eastern Oyster management options in the Chesapeake Bay, Maryland <i>Wilberg, Michael</i>	Hierarchical Model to Predict Common Carp and Bigmouth Buffalo Abundance from Electrofishing Catc... <i>Simonson, Martin</i>	Can Columbia Basin Sockeye Salmon adapt to climate change? <i>Fryer, Jeffrey</i>		Evaluating how Complexity of Alternative Stock Assessment Models affects Perception of Summer Flo... <i>Solinger, Laura</i>	Long-Term Relationship Building with Anglers: A Case Study with the Muskellunge Angling Community <i>Landsman, Sean</i>
11:00 AM		Temporal changes in the reproductive ecology of the estuarine Conguito sea catfish are related to... <i>Amezcuca, Felipe</i>	Analysis of Size Structure of Largemouth Bass (<i>Micropterus salmoides</i>) in Georgia Reservoirs with ... <i>Daley, Jacob</i>	Marked recent declines in boron in Baltic Sea cod otoliths – a bellwether of incipient acidificat... <i>Limburg, Karin</i>	Fisheries Conflicts with Sand Dredging: Baselines and Early Geospatial Analysis <i>Iwicki, Carolyn</i>	Gear Bias of low-frequency electrofishing for sampling Blue Catfish populations in Oklahoma reser... <i>Montague, Graham</i>	Thermal and Potential Climate Effects on Early Life Stages of White Perch <i>Minch, Benjamin</i>			Let's Talk About It: How Arkansas Game and Fish Commission's Fisheries Division changed the messa... <i>Feltz, Jessica</i>
11:20 AM		Descender Devices or Treat Tethers: Does Barotrauma Mitigation Increase Opportunities for Depreda... <i>Drymon, Marcus</i>		Evaluating the effects of three Alabama River dams on fish movements using otolith microchemistry <i>Rotar, Christopher</i>		Technological Advances and Their Potential Influence on Table Rock Lake Crappie <i>Schmitz, Grant</i>	How will changes in extreme precipitation events impact Eastern oyster (<i>Crassostrea virginica</i>) ec... <i>Barr, Janine</i>		Comparing distributions using the recently developed overlap statistic η -hat: Examples and sugges... <i>Zentner, Douglas</i>	Growing Angler Engagement through Cooperative Tagging Research <i>Musick, Susanna</i>
11:40 AM				RECONSTRUCTING LIFE HISTORIES OF WHITE SHARKS USING VERTEBRAL CHEMISTRY <i>Mohan, John</i>		Using a mixed-methods approach to assess char diversity in the central Canadian Arctic <i>Weinstein, Spencer</i>				
			Influence of Habitat, Land-Use, Infectious Agents, Environmental Stressors on					Standardizing recreational fishing data collection applications		

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1:00 PM			Smallmouth Bass Pops							
		First insight into plastics ingestion by fish in the Gulf of California, Mexico <i>Amezcuca, Felipe</i>	Using Visual Indexes of Macroscopic Indicators to Assess Temporal Trends in Smallmouth Bass Fish <i>Keplinger, Brandon</i>	Canaries in the Baltic Sea "Coal Mine": Fish Otoliths Document Accelerating Climate Impacts <i>Heimbrand, Yvette</i>	Rock(fish) around the clock: depths and activity levels of threatened Puget Sound rockfish <i>Danielson, Zofia</i>		Assessing shifts in benthic and pelagic community coupling in the Northwest Atlantic: Are communi... <i>Fenwick, Ileana</i>	Development of the SciFish application, a customizable citizen science project builder <i>Byrd, Julia</i>	Identifying gillnet bias in the sampling of estuarine predators within a temperate estuary <i>Plumlee, Jeffrey</i>	Engaging anglers in SCDNR's fish tagging efforts <i>Perkinson, Matt</i>
1:20 PM		The lack of recovery of eastern Baltic cod: impacts of environmental hypoxia on community dynamics <i>Duskey, Elizabeth</i>	Evaluation of a Fish Health Assessment Index Applied to Smallmouth Bass of the Chesapeake Watershed <i>Jensen, Josiah</i>	Using otolith microchemistry to determine natal origin of black sea bass (<i>Centropristis striata</i>) ... <i>Koob, Elise</i>	Using larval transport models to evaluate marine protected areas in the U.S. South Atlantic regio... <i>Brothers, John</i>		(Cancelled) Impacts of temperature variability on marine fisheries in the Northeast Shelf Regional Ecosystem	Minimizing Bias in Citizen Science <i>Cathey, Andrew</i>	Effects of gear and fate on estimates of size-selectivity from mark-recapture experiments in thre... <i>Stevens, B.</i>	Using App Based Tournaments as a Source of Fisheries Data <i>Quinn, Danielle</i>
1:40 PM		Comparing methods for externally attaching electronic tags to fish: assessment of tag retention, ... <i>Tharp, Ryan</i>	Smallmouth Bass, Micropterus dolomieu, Microplastic Consumption over Space and Time in three <i>Zipp, Kaylyn</i>	Ontogenetic patterns of elemental tracers in the vertebrae cartilage of coastal and oceanic sharks <i>Livernois, Mariah</i>	Research and development of a replicable evaluation framework for MPA sustainable finance <i>Bohorquez, John</i>		Historical range shifts and the influence of global warming on ocean quahogs (<i>Arctica islandica</i>) <i>LeClaire, Alyssa</i>	Non-probability Sampling in Fishing Effort and Catch Surveys <i>Brick, J. Michael</i>	A proposed publicly available known-age fish structure repository <i>Koch, Jeff</i>	Penn State Trout Angler Science Study: Lessons we learned so you don't have to <i>Mueller, Sara</i>
2:00 PM									Contributed Papers: Fishery dependent observing and monitoring	
		Life history and Reproductive Strategies of <i>Callinectes</i> sp. in a Tropical Urban Estuary <i>Pares, Olivia</i>	Patterns in melanistic lesions in Smallmouth Bass in the Susquehanna River Basin, Pennsylvania <i>Smith, Geoffrey</i>	Age validation using periodicity of annulus formation and hardpart microconstituents in black sea... <i>Frey, Benjamin</i>					We know Canadian Anglers struggle to identify fish, we just can't prove it (Yet) <i>Hamilton, Shayna</i>	TrophyCatch: angler recognition, citizen science, and trophy bass conservation <i>Dutterer, Andrew</i>

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	Planning for coldwater fisheries resources: modeling and managing temperature impairments	Keeping cool: thermoregulating in a changing world	Interactions between offshore wind, fisheries, and fisheries resources	Using indicators of ecological resilience to inform conservation /management of freshwater ecosystems	Investments in fish habitat science to support resilient fish populations	Advances in life history and environmental reconstruction using biogenic structures from organisms	Atlantic Striped Bass populations: past, present and future challenges	Creating and implementing ecosystem wide integrated research/ conservation plan for prairie streams	Climate change effects on fish and fisheries: Understanding, forecasting, and communicating impacts	Fish passage through the ages – historical approaches, current innovations, and future opportunities	Tails from the Anthropocene—stories and lessons from 150 years of aquatic introductions	Global fish biogeography and production, now and in the future	Cooperative research with stakeholders: recent progress and new directions
8:00 AM	Addressing Coldwater Temperature Impairments in a Changing Climate <i>Kusnierz, Paul</i>	A Decade of Thermal Hydraulic Modeling Improvements and Use in Understanding Thermal Impacts to R... <i>Li, Haifeng</i>	Responsible Offshore Science Alliance (ROSA): Advancing coordinated regional research and monitor... <i>Hice-Dunton, Lyndie</i>	Biological Indicators of Ecological Resilience for Informing Aquatic Ecosystem Conservation: Tro... <i>Hughes, Bob</i>	Patterns in Seasonal Estuarine Residency of Mid-Atlantic Fishes in Relation to Climate <i>Schonfeld, Adena</i>	The N isotopic relationship between fish tissue and otoliths: controls and variation <i>Lueders-Dumont, Jessica</i>	Recent advances in understanding Atlantic striped bass population dynamics and fishery management <i>Sharov, Alexei</i>		Quantifying the Effects of Temperature Change on Freshwater Fish Spawning Phenology <i>LaRoque, Ashley</i>				The Commercial Fisheries Research Foundation Research Fleets: Progress and New Directions <i>Bethoney, N. David</i>
8:20 AM	Thermal risk assessment for tailwaters in a changing climate <i>Jager, Yetta</i>	The salmon-peloton: hydraulic habitat shifts of adult Atlantic Salmon (<i>Salmo salar</i>) due to behavior... <i>O'Sullivan, Antoin</i>	Responses of demersal fish and invertebrates to America's first offshore wind farm <i>Wilber, Dara</i>	Accounting for environmental uniqueness, connectivity, and biodiversity of freshwater habitats to... <i>Üblacker, Maria Magdalena</i>	Combining historic records and habitat suitability analysis to assess the potential for Lake Stu... <i>Wirebach, Kylie</i>		Decline and Restoration of the Delaware River Spawning Stock of Striped Bass: It is all About the... <i>Kahn, Desmond</i>	Fish Community Changes Following Fall Drawdown in an Irrigation Canal and its Tributary Stream <i>Wuellner, Melissa</i>	Thermal tolerance of fish to heatwaves in agricultural streams: What does nou maket kill yos you ... <i>Dai, Qihong</i>			Estimation of size-specific catchability from survey trawl data <i>Krumsick, Kyle</i>	A Video Trawl Survey Reveals Ecological Influences on Yellowtail Flounder in Closed Area II, Geor... <i>Perez, Patricia</i>

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10:00 AM	A Temperature TMDL Implementation Guidance for Coldwater Designated Uses and Fisheries Resources <i>Leiman, Jonathan</i>			(Cancelled) Quantifying Flow–Ecology Relationships across flow regime class and ecoregions in South Carolina	Seasonal & Tidal Movement Patterns of Red Drum in a Restored Seascape <i>Ramsden, Sarah</i>	Evaluation of the climate-growth relationship and natural mortality of an unfished gastropod (Buc... <i>Borsetti, Sarah</i>	Histologically Determined Atlantic Striped Bass Female Age-At-Maturity <i>Brown, Simon</i>	Characteristics of the natural flow regime paradigm explain occurrence of imperiled prairie fishes <i>Nguyen, Erin</i>	Overview of 111 World Aquatic Scientific Societies Statement on Human-Caused Climate Change <i>Bonar, Scott</i>			Chasing new frontiers with pop-up satellite tags: understanding reproductive ecology, toxicology and... <i>Schlenker, Lela</i>	Shorter seasons reduce for-hire fishing effort in a multispecies marine fishery <i>Trudeau, Ashley</i>
10:20 AM	Temperature TMDL Development for Coldwater Designated Uses in Maryland <i>Kasko, Anna</i>			Variations in field metabolic rate derived from otolith stable isotopes reveal complex interactions... <i>Jones, Joseph</i>	Growth in large river deltas by an estuarine-dependent fish: evidence from otoliths <i>Muscat, Abigail</i>	Diet isotope chronology reveals linkages between marine food webs, thiamine deficiency, and reproduction... <i>Johnson, Rachel</i>	Differential migration and mortality in Chesapeake Bay Striped Bass <i>Secor, David</i>		Washington Policy Update: US Climate Legislation <i>Winters, Dru</i>			An overview of the use of isotope-based estimates of field metabolic rate and experienced temperature... <i>Trueman, Clive</i>	Improvements in endangered species bycatch issues in fisheries associated with the marine steward... <i>Shiffman, David</i>
		Contributed Papers: Aquatic ecology							Contributed Papers: Climate change and management				
1:20 PM	Development of Maryland coldwater resources mapping tool <i>Kashiwagi, Michael</i>	Thermal metabolic advantage: A mechanism for understanding the effect of temperature on predator-prey interactions... <i>McInturf, Alexandra</i>	Assessing potential impacts of offshore wind development on the Southern New England cod fishery <i>Frey, Alison</i>	Confluences and Land Cover as Agents of Change: Temporal Habitat Variability Modifies the Movement of Fish... <i>Hubbell, Joshua</i>	Understanding the effects of environmental variability on recruitment and abundance of penaeid shrimp... <i>Schlenker, Lela</i>		Mycobacterial Prevalence In Hudson River Striped Bass <i>Morone saxatilis</i> <i>Getchell, Rod</i>		Climate-induced changes in the relative abundance of freshwater game fish inferred from angler angler... <i>McDonald, Zachary</i>	Characterizing effects of stream fragmentation on migratory fishes across the conterminous United States... <i>Dean, Emily</i>	Leveraging big data to screen for lake invasions in the Upper Mississippi River Basin <i>Weir, Jessica</i>	Improving estimates of environmental limits to performance, metabolic scope, and viable habitat: ... <i>Andres, Alyssa</i>	Panel Discussion

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												Jawless wonders: science to better understand and manage lampreys	
1:40 PM	Evaluation of landuse, habitat and water quality for modeling the distribution of Brook Trout in ... <i>Goetz, Daniel</i>	Phenotypic Level Changes Caused by Thermal Stress During Early Development in Zebrafish (<i>Danio re...</i>) <i>Sloane, Kathryn</i>	Gone with the Wind?: Assessing the Spatio-Temporal Dynamics of Longfin Squid Suitable Habitat and... <i>Ober, Claire</i>	Going the distance: Multiscale assessment of Conchos Pupfish (<i>Cyprinodon eximius</i>) abundance and d... <i>Elkins, Lindsey</i>	Oyster Aquaculture Installations as Habitat: An Acoustic Telemetry Study of Juvenile Sheepshead <i>McMains, Andrew</i>		Mycobacteriosis of Striped Bass (<i>Morone saxatilis</i>) in Virginia tributaries of the Chesapeake Bay <i>McGilly, Joshua</i>	Enhancing conservation efforts of prairie stream ecosystems by developing integrated databases <i>Gaughan, Sarah</i>	Corps' Fish habitat restoration: examples from around the US <i>Trulick, Jeffrey</i>	Dam Removal in History, Current State of Removal, and Future Needs <i>Goll, Geoffrey</i>	Protecting our waters: Oh what 100 years does to provide perspective. Multi-jurisdictional Appro... <i>Irons, Kevin</i>	Let the right one in: exploiting behavioral traits of invasive sea lamprey to achieve selective f... <i>Hume, John</i>	Panel Discussion
2:00 PM	Evaluating the Thermal Impact of Small Ponds in Maryland Trout Watersheds <i>Eshleman, Adam</i>	Assessment of Benthic Macroinvertebrate rate and Fish Communities within a Future Stream Mitigation Ar... <i>McCauley, Martha</i>	The Potential to Model Future Range Shifts of Commercial Species and Their Fisheries: A Possible... <i>Powell, Eric</i>	Patterns and predictors of Alligator Gar movement across mainstem-tributary ecotones <i>Roberts, Hayden</i>	Identification of southern flounder migration corridors and spawning grounds in North Carolina <i>McGarigal, Caitlin</i>			Phenology and Habitat Utilization of Spawning Brook Trout in the Little Plover River, WI <i>Coash, Natalie</i>	Quantifying Spatio-Temporal Responses of Marine Ecosystems to Climate Change and Other Anthropoge... <i>Morano, Janelle</i>	FishPass – confronting the connectivity conundrum <i>Muir, Andrew</i>	Hatchery Salmon and Ecological Overshoot <i>Van Alen, Benjamin</i>	Bottling Fear: Methods for Invasive Species Management and Conservation of Fishes <i>Mensch, Emily</i>	
2:20 PM	100 years of the North Branch Potomac River: An industrial watershed turned to cold-water success... <i>Selckmann, Gordon</i>	How has extreme geomorphic change in a historically degraded desert river influenced both fish ha... <i>Remiszewski, Tansy</i>	The Flyway Concept and Assessment of OWF Impacts on Migratory Marine Fauna <i>Secor, David</i>	Intraspecific variation in native Rainbow Trout: a comparison of morphological and genetic divers... <i>Breech, Tyler</i>	Comparing limits with reality: how thermal sensitivity of anadromous juvenile alewife and bluebac... <i>Guo, Lian</i>		Integrative Assessment of the Quality of Shallow Tributary Forage Habitats for Striped Bass in Ch... <i>Ogburn, Matthew</i>		A flooded future for river chub? Predicted effects of climate change and urbanization on nesting ... <i>Kemp, Stanley J.</i>	Southeast Aquatic Barrier Inventory and Prioritization Tool: Assessing Aquatic Habitat Fragmenta... <i>Hoenske, Kathleen</i>	Thirty five years later: new research, management and policy as a result of the dreissenid mussel... <i>Bossenbroek, Jonathan</i>	The curious case of stable isotopes in larval lampreys: Larval lamprey lipids are enriched in 13C... <i>Evans, Thomas</i>	

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											Chesapeake Bay introduced species control and management		
2:40 PM	Review of habitat requirements, distributions, and protections of cold water fish species in Minn... <i>Bahr, Derek</i>		Panel Discussion		Modeling fish distributions in an extreme tidal environment using data from acoustic telemetry <i>Bangley, Charles</i>		Striped Bass Predation has Driven the Population Dynamics of Blueback Herring and American Shad <i>Kahn, Desmond</i>	Panel Discussion		2020 Fish Passage at the Big Bar Landslide, Fraser River, British Columbia <i>Bryan, Vince</i>	Overwintering and spawning habitat use by invasive Blue Catfish in a tributary of Chesapeake Bay <i>Williams, Branson</i>	Modeling Juvenile Sea Lamprey Survival and Migratory Behavior with New JSATS Technology <i>Haas, Taylor</i>	
3:20 PM	Development of dissolved oxygen, temperature, and nutrient thresholds to protect cold water fish ... <i>Bouchard, Will</i>		Panel Discussion	Comparing biodiversity indicators derived from genetic and non-genetic information to support pop... <i>Mamoozadeh, Nadya</i>	When habitat begets habitat <i>Jordaan, Adrian</i>					Design and Construction of a Nature-Like Fishway for the Saco River, Maine <i>Nelson, Ralph</i>	Preliminary Diet Analysis of the invasive Flathead Catfish (<i>Pylodictis olivaris</i>) in a Pennsylvani... <i>Stark, Sydney</i>		
3:40 PM	Merging Ecology, History, and Law to Conserve Brook Trout in the Wild and Scenic Namekagon River,... <i>Shirey, Patrick</i>		Panel Discussion	Countering the Legacy of Erosion in North Mississippi Streams <i>Faucheux, Nicky</i>	Spatial habitat constraints of U.S. Northeast fishes vary across life history stages <i>Wang, Verena</i>					Effectiveness of a nature-like fishway on a large, free-flowing river in Montana, USA <i>Anderson, Ian</i>			

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4:00 PM	The Impact of Data Granularity on Temperature Gradient Modeling in Michigan's Streams <i>Hayes, Daniel</i>				Underwater video as a tool to quantify fish in complex coastal habitats <i>Baker, Ronald</i>					Evaluating fish passage and tailrace space use at a low-use low-head lock-and-dam <i>Hershey, Henry</i>	(Cancelled) Attempting to Balance Migratory Fish Passage & Invasive Species Management : The Susquehanna River...		
4:20 PM	Unique Challenges and Approaches to Conserving Temperature in Montana's Coldwater Streams <i>Fortman, Kristy</i>				Spatiotemporal Coherence of Aggregate Biomass Ecosystem Indicators in the Mid-Atlantic Bight, USA <i>Gartland, James</i>								
4:40 PM	Water Temperature Investigations and Collaborations of Penobscot Indian Nation –Protecting Water... <i>Kusnierz, Daniel</i>				Association of fishes and macro invertebrates to sand features in the New York Bight <i>Grothues, Thomas</i>								
5:00 PM					Implications of the Misalignment of Management and Biological Units in Understanding Atlantic cod... <i>Linner, Robyn</i>								

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5:20 PM					The Importance of Fine-Scale Data in Identifying Suitable Habitat for Atlantic cod <i>Linner, Robyn</i>								
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TUESDAY, NOVEMBER 9

	Johnson A Room, Hilton	Johnson B Room, Hilton	Latrobe Room, Hilton	Peale A, Hilton	Peale B, Hilton	Peale C, Hilton	Promenade, Marriott	Ruth Room, Hilton	Stadium 1 Room, Marriott	Stadium 2 Room, Marriott	Stadium 3 Room, Marriott	Stadium 4 Room, Marriott	Stadium 5 Room, Marriott	University 1, Marriott	University 2, Marriott
	Interactions between offshore wind, fisheries, and fisheries resources	Contributed Papers: Freshwater fish ecology	Contributed Papers: Salmonid conservation	Ecological forecasting: bridging fish, ecosystems, weather, water, climate and communities	Back to the future of reservoir science and management: What have we learned in 50 years?	Managing for a RADical future: resisting, accepting and directing ecosystem transformation	Climate informed fisheries management	Fish passage through the ages - historical approaches, current innovations, and future opportunities	Contributed Papers: Hatcheries and fish health	Contributed Papers: Sharks and migratory fishes	Beyond species detection - leveraging eDNA to inform fisheries management and conservation	Retrospective and horizon scans for fish genetics/genomics	Diversity and Inclusion: a strategy to implement change for 2021 and beyond	Fisheries PEP talk - increasing diversity in our science	Ecological forecasting: bridging fish, ecosystems, weather, water, climate and communities
8:00 AM	Assessing economic impacts to the US commercial surfclam fishing industry from offshore wind ener... <i>Scheld, Andrew</i>	Habitat associations of Blotchside Logperch (<i>Percina burtoni</i>) in the Little River, Tennessee and ... <i>Cary, Joshua</i>	Identifying the impacts of fine sediment and drought conditions on Brook Trout (<i>Salvelinus fontin...</i>) <i>Briggs, Emilee</i>	What is Ecological Forecasting? <i>Allen, Laurie</i>	Fish habitat issues in Iowa lakes versus reservoirs, and relationships with the fishery <i>Krogman, Rebecca</i>	Reservoir fisheries management is RAD! Resisting, accepting and directing riverine impoundment <i>Engman, Augustin</i>	Flatlined Flatfish? Status, Trends, and Fisheries Management of Southern Flounder in Texas. <i>Geeslin, Dakus</i>	Estimating Alewife Spawning Run Size By Incorporating Rates of Multi-Passage from PIT Tag Detecti... <i>McCartin, Kellie</i>	What have we been stocking all these years? A genomic characterization of walleye strains in West... <i>Johnson, Andrew</i>	Primed and Cued: Linking Interannual and Seasonal Flow Dynamics to the Spawning Migrations of Com... <i>Massie, Jordan</i>	Introduction	MarineOmics: A new web resource for robust and reproducible genomic research in marine and aquati... <i>Silliman, Katherine</i>	A Retrospective and Broad Review of Diversity and Inclusion Efforts in AFS <i>Moffit, Christine</i>	Keynote	
8:20 AM	Development of a fishery owned knowledge trust and demonstration of its use in the assessment of ... <i>Manderson, John</i>	Dynamics of Fish-Habitat Relationships in the North Platte River-Lake <i>McConaughy</i> Interface <i>Cooke, Thyme</i>	Wildfire and Native Trout Recovery in Arizona <i>Beard, Zachary</i>		Balancing ecosystem complexity and effective management: deriving and understanding discrete rese... <i>Conroy, Joseph</i>	A RAD decision-making tool for walleye (<i>Sander vitreus</i>) management in Wisconsin <i>Dassow, Colin</i>	Reconciling conflicting relative abundance trends by accounting for changing ocean conditions <i>Hansell, Alex</i>	Downstream passage of American Eels (<i>Anguilla rostrata</i>) at a hydroelectric facility on the Roanok... <i>Krebs, Justin</i>	Population genetic and stock enhancement tools for conservation of the overfished white seabass, ... <i>Reiber, Ellen</i>	Atlantic halibut migratory behavior and stock mixing across the northwest Atlantic <i>Ransier, Krista</i>	The effect of movement, energy use, and species identity on environmental DNA shedding of fish <i>Thalinger, Bettina</i>	Promises and challenges for reusing pre-existing genomic sequencing data for fisheries research a... <i>Lou, Runyang</i> <i>Nicolas</i>	What White Guys Don't Know: Barriers to Minority Participation in Fisheries <i>Lochmann, Steve</i>	The PEP Model: Best Practices from the Woods Hole Partnership Education Program <i>Jearld, Ambrose</i>	AFS and AMS: Towards operationalization of ecological forecasting <i>Colton, Marie</i>

TUESDAY, NOVEMBER 9

8:40 AM	Considerations for Gear Standardization for Research and Monitoring in Offshore Lease Areas <i>Pol, Mike</i>	Field examination of altered stream temperatures on reproductive development of Johnny Darter <i>Eth... Adams, Catherine</i>	Microhabitat and Energetics of Juvenile Chinook Salmon in a Simulated Floodplain <i>Cech, Joe</i>		Reversing What Time has Taken Away: Mother Nature's Experiment with Cove Connection in Harlan County <i>Wuellner, Melissa</i>	Conserving the Laurel Dace (<i>Chrosomus saylori</i>), a Federally Endangered Minnow <i>Fix, Shawna</i>	Comparative case studies of fisheries (re-)allocation processes under climate change <i>Tokunaga, Kanae</i>	Using Sensor Fish Transmitters as Proxies for Documenting Downstream Fish Passage Conditions at L... <i>Hugo, David</i>		High retention duration of pop-off satellite archival tags with sheepshead (<i>Archosargus probatoce...</i>) <i>Naisbett-Jones, Lewis</i>	Integrating physiology and environmental dynamics to operationalize environmental DNA (eDNA) as a... <i>Yates, Matthew</i>	Long-read genome resequencing ("LRG-seq") provides simultaneous estimation of SNPs, structural va... <i>Krabbenhof, Trevor</i>	Outdoors is for Everyone: Creating an Inclusive and Safe Space in our Society for LGBTQ+ Members <i>Miles (she/her), Cassidy</i>	Diversity, Inclusion & U.S. Aquaculture <i>Black, Imani</i>	Ecological Forecasting Initiative: Building a Community of Practice <i>Dietze, Michael</i>
9:00 AM	Informing Wind Farm Layouts with AIS Data and Measured Trawl and Dredge Tracks <i>Drew, Stephen</i>	Development of a habitat model for an endemic leuciscid, the Sandhills Chub (<i>Semotilus lumbee</i>) <i>Herigan, Garrett</i>	Growth prior to ocean entry may provide a survival advantage to Columbia River Interior Spring Ch... <i>Norrie, Craig</i>		Beyond the 100th Meridian: A Case Study of the Complex Mechanisms By Which Drought-induced Drawdo... <i>McLaren, John</i>	Creating a Safe Operating Space for an Inland Recreational Fishery <i>Embke, Holly</i>	Simulating the impacts of climate change on blue crab (<i>Callinectes sapidus</i>) populations in New York <i>Molina, Adelle</i>	American eel passage through a small-scale fish-safe Restoration Hydro Turbine: Direct observatio... <i>Watson, Sterling</i>	Anatomy of a Successful Paddlefish Restoration Effort: A Case Study of Oologah Lake and the Verdi... <i>Gary, Ryan</i>	Where do Maine Atlantic Sturgeon go in the winter? <i>Zydlewski, Joseph</i>	Assessing the power of environmental DNA to predict Atlantic salmon (<i>Salmo salar</i>) population abun... <i>Morrison, Melissa</i>	Whole genome screening for diagnostic markers can dramatically increase both the accuracy and spa... <i>Therkildsen, Nina</i>	Terranaut Club: STEM and Nature Exploration for Girls+ <i>Quinn, Danielle</i>	Sea Grant Visioning & Actions to Incorporate Diversity, Equity and Inclusion <i>Ebbin, Syma</i>	Process-based forecasting of near-term range shifts in marine species <i>Fredston, Alexa</i>
9:20 AM													AFS Issues and Actions around DEI <i>Penaluna, Brooke</i>		Evolution and Advancements in Forecast Methodology for Alaskan Salmon Fisheries <i>Cunningham, Curry</i>
9:40 AM	The use of navigation simulators to gain experience operating in offshore wind farms <i>Sarro, Chris</i>	Complexity in mutualistic interactions between River chub and nest associates – Observations from... <i>Kemp, Mary</i>	Using acoustic telemetry to characterize predation on Atlantic salmon smolts. <i>Mensingher, Matthew</i>		Is reservoir water elevation and habitat availability a linear relationship? <i>Schriener, William</i>	Managing Watersheds and Riverscapes for Aquatic Ecosystem Resiliency in a Rapidly Urbanizing Priv... <i>Birdsong, Timothy</i>	Evaluating Alternative Harvest Control Rules for Gulf of Maine Cod in a Changing Climate <i>Mazur, Mackenzie</i>	Visualizing Success: The Importance of Visual Surveys for Evaluating and Developing Successful Ee... <i>Kiraly, Ian</i>		Refining capture-recapture recruitment estimation methods for Atlantic Sturgeon in the Altamaha R... <i>Baker, Michael</i>	Testing the waters for quantitative abundance: American Eels in the Bronx River <i>Chin, Sam</i>	Gene flow and spatial population structure of Brook Trout in a large headwater stream network in ... <i>Harris, Audrey</i>	Panel Discussion	Lessons Learned in Offering Same Program with a Different Delivery <i>Scott Price, Onjalé</i>	

TUESDAY, NOVEMBER 9

10:00 AM	Effective Stakeholder Engagement in Offshore Wind Energy Development: New York State's Fisheries ... <i>Brunbauer, Morgan</i>	Toothy Filter Feeder? Evidence of Alligator Gar Feeding on Zooplankton <i>Sallmann, Derek</i>	Genomic region associated with run-timing has similar haplotypes and phenotypic effects across th... <i>Willis, Stuart</i>		Does flow management result in less hospitable habitat for a parasite's intermediate host? <i>Daley, Taylor</i>	Developing a Framework for Managing Fish Species as they Cross Political Boundaries <i>Alofs, Karen</i>	Consequences of False Assumptions when Projecting Habitat Suitability: A Caution of Forecasting u... <i>Hodgdon, Cameron</i>	Predicting outmigration of American Eels (<i>Anguilla rostrata</i>) to improve downstream passage surviv... <i>Manhard, Christopher</i>	First commercial trial of in-pond raceway system IPRS aquaculture in Bangladesh with Ctenopharyng... <i>Eshsan, Md. Amimul</i>	Recruitment of American glass eels (<i>Anguilla rostrata</i>) to northeast Florida: evidence for a decad... <i>Johnson, Eric</i>	eDNA as a tool for assessing fish population abundance across inland lakes of a recreational fishery <i>Spear, Michael</i>	Using Genomics to Improve Stock Structure Resolution of Lake Whitefish (<i>Coregonus clupeaformis</i>) i... <i>Shi, Yue</i>	Panel Discussion	Forecasting river herring bycatch in the Northeast US <i>Roberts, Kelsey</i>	
10:20 AM		Swimming performance and metabolism of four fish species under the flow and temperature regimes o... <i>Stell, Ehlana</i>			Going with the Flow: Past, Present, and Future of Reservoir Fish Escapement <i>Cope, William</i>		Impact of Marine Heatwaves on the Spatiotemporal Distributions of U.S. Pelagic Fishing Fleets <i>Farchadi, Nima</i>	Stress Less? Comparing Stress in Fish After Bypass Pipe vs. Vehicle Transport Passage	Offshore Marine Aquaculture: A Farmer Perspective <i>Zajicek, Paul</i>		Advancing monitoring and management of mid-Atlantic Alosine fishes with eDNA analysis <i>Fowler, Chelsea</i>	A GT-seq panel creates new opportunities for walleye management in the Great Lakes and beyond <i>Euclide, Peter</i>	Panel Discussion	Creating a distribution model of invasive rusty crayfish (<i>Faxonius rusticus</i>) in Michigan streams ... <i>Homan, Robert</i>	
				Stakeholder perceptions of fisheries management		Forage fish omics									
1:20 PM	Panel Discussion: The role of environmental and fisheries efforts during the pre-development stag... <i>Brunbauer, Morgan</i>	Habitat Use of Three Forage Fishes across Six Reaches of the Mississippi and Illinois Rivers <i>Valentine, Shaley</i>	Hatch timing of two subarctic salmonids in a stream network estimated by otolith increments <i>Fitzgerald, Kevin</i>	Comparing social data to ecological models: environmental factors affecting the North Carolina sh... <i>Farquhar, Samantha</i>	Can a river-reservoir interface serve as nursery habitat for riverine fishes? <i>Smith, Nathan</i>	Population genomic structure of Great Lakes ciscoes (<i>Coregonus</i> spp.) using low-coverage whole gen... <i>Backenstose, Nathan</i>	Northeast Climate Integrated Modeling to Meet Ocean Decision Challenges <i>Kerr, Lisa</i>	Eel River of Northern Indiana: Ecological Restoration Through Conservation Partnerships <i>Sweeten, Jerry</i>	Design Features of Water Harvesting Structures to Accommodate Fish Farming: Views and Reviews <i>Muthiah, Muruganadam</i>	Scalloped hammerhead sharks have more complex migratory routes than expected <i>Amezcuca, Felipe</i>	Towards absolute abundance: applying a likelihood-based framework to enumerate the number of cont...	Failure of Phenotypic Markers to Accurately Identify Black Bass Species and Associated Hybrids in... <i>Lewis, Matt</i>			

TUESDAY, NOVEMBER 9

												Contributed Papers: Fish genetics			
1:40 PM		A test of a generalized, optimal habitat selection model for drift-feeding fishes: brook charr <i>Sliger, Ridge</i>		The (En)Tangled Web They Weave: Stakeholder Perception of the Large Whale Take Reduction Process <i>Ohnemus, Kimberly</i>	Determining Lake Characteristics for Expanding the Florida Bass Stocking Program in Arkansas <i>Buckingham, Jeffrey</i>	Comparative genomics and microbiomes of a high value forage fish, Pacific chub mackerel, <i>Scomber ...</i>	Managing Menhaden: How Ecosystem Models Can be Used to Incorporate Climate and Ecology in Forage ... <i>Grezlik, Maxwell</i>	The effect of annual variability on passage standards set through population modeling <i>O'Malley, Betsy</i>	Warm Water Aquaculture in a Cold Water State <i>Shields, Robert</i>	Demographics, survivorship and post-released behavior of prohibited sharks captured in the land-b... <i>Dunton, Keith</i>	Estimating the genetic diversity of Pacific salmon and trout using multigene eDNA metabarcoding <i>Weitemier, Kevin</i>	Chesapeake Bay Barcode Initiative (CBBi): The First Comprehensive Genetic Library for Fish of the... <i>Aguilar, Robert</i>			
2:00 PM		Theoretical models as spatial proxies for stream fish metacommunities in a fragmented stream network <i>Yancy, Lauren</i>	A Guide to Assessing Native Fish Conservation Translocations Using Two Case Studies in Yellowstone... <i>Puchany, Andriana</i>	Homeward Bound: Returning Atlantic Salmon to Maine rivers using aquaculture <i>Flye, Melissa</i>	Survival and Dispersal Patterns for Stocked Age-0 and Adult Striped Bass in Bull Shoals Reservoir... <i>Boehm, Hadley</i>	Polygenic discrimination of migratory phenotypes in the critically endangered Delta Smelt <i>Campbell, Matthew</i>	Something strange in the neighborhood: The potential roles of ecosystem and management changes in... <i>Wiedenmann, John</i>	Updating the consensus on fishway efficiency: a meta-analysis <i>Hershey, Henry</i>	The potential of Pangasius catfish, <i>Pangasianodon hypophthalmus</i> , production in-pond raceway systems... <i>Ehshan, Md. Amimul</i>			A Genetic Snapshot of Stocking: The Ontonagon River Lake Sturgeon Project <i>Akers, Mary</i>	Panel Discussion		
												Fishing for a molecule - the practical value of eDNA monitoring for invasive species			
2:20 PM		The Varied Roles of Small Fish as Mesopredators in Lake Food Webs <i>Airey, Montana</i>	Evaluating factors affecting Brook Trout abundance in Central Appalachian headwater streams using... <i>Schwinghamer, Christopher</i>		Assessing Hydrilla Spread and Subsequent Impacts on Sportfish Communities in Lake Sinclair, Georgia <i>Glomb, Jackson</i>		Using spatiotemporal models and changes in sea surface temperature at varying spatiotemporal scales... <i>Denson, LaTreese</i>	Alosine Restoration: Priorities and Challenges in the Delaware River Basin <i>DeSalvo, Lyndon</i>	Comparisons of Tissues for the Detection of Renibacterium salmoninarum in Cutthroat Trout <i>Riepe, Tawni</i>	Niche partitioning and trophodynamics in elasmobranch and teleost fishes in the British Indian Ocean <i>Carlisle, Aaron</i>	Agency Preferences to the Use of eDNA Monitoring for Aquatic Invasive Species <i>Love, Joseph</i>	Linkage map of Shovelnose Sturgeon (<i>Scaphirhynchus platyrhynchus</i>) haploids aids marker development... <i>Flamio, Richard</i>			

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2:40 PM	Panel Discussion				Modeling Synchrony in Black Bass Angler Activity and Management Actions Across Tennessee Reservoirs <i>Hoogakker, Frederick</i>		Asynchrony, tradeoffs, and climate drivers of lifetime demographic rates for alternative juvenile... <i>Sorel, Mark</i>	Stakeholder Partnerships for Aquatic Connectivity - Capacity Building and Lessons Learned <i>Shelton, James</i>	Non-Lethal Detection of the Invasive Swimbladder Parasite <i>Anguillicola crassus</i> in American Eels (...) <i>Lavoie, Danielle</i>		Potential Factors Affecting Successful Detection of Target Species eDNA – Some Lessons Learned fr... <i>Riley, Jacob</i>	Phylogeography and fitness consequences of admixture in the Smallmouth Bass (<i>Micropterus dolomieu</i>) <i>Gunn, Joe</i>				
3:00 PM	Panel Discussion															
3:20 PM	Panel Discussion	Framework to assess the impact of investments in US fisheries innovation <i>Redding, Stephen</i>			Exploring the use of price indices to adjust angler expenditure profiles over time <i>Hunt, Kevin</i>		Ocean temperature and food web quality influence rockfish body condition <i>Rosemond, Claire</i>	HYDRAULIC IMPACT ON FISH MIGRATION IN SARIAKANDHI FISH PASS OF BANGLADESH. <i>Kumar Ghosh, Bijoy</i>	Laser Diffraction Technique in Fisheries research <i>Jaleeli, Kaleem Ahmed</i>	Species distribution models reveal habitat use, temporal changes, and knowledge gaps for basking ... <i>McInturf, Alexandra</i>	Opportunities and challenges in combining citizen science and environmental DNA for surveillance ... <i>Larson, Eric</i>	Using genetic parentage to validate scale ages in wild Pacific salmon <i>McPhee, Megan</i>				
3:40 PM		AGE AND GROWTH OF THREE IMPORTANT COMMERCIALY HARVESTED FISHES IN TENNESSEE: SKIPJACK HERRING, S... <i>Wesley, Victor</i>					Changing climate associated with the range-wide decline of an estuarine finfish <i>Erickson, Kenneth</i>			Metal heads: Physiological and behavioral effects of organic mercury on a small elasmobranch, Mus... <i>Sabando Plaza, Maria A</i>						
4:00 PM		Crappie population dynamics and harvest regulations in Kansas reservoirs <i>Miazga, James</i>					A Reason to Feel Blue? Evaluating the Impacts of Environmental Stress and Bioactive Estrogen on t... <i>Rocco, Alex</i>			Patterns of Residency and Space Use of Arctic Skates (Amblyraja hyperborea) Across a Developing A... <i>Bradley, Jarius</i>						

TUESDAY, NOVEMBER 9

4:20 PM		Estimating aspects of reproductive biology for a non-native Flathead Catfish population in the... <i>Pelletier, Claire</i>												
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WEDNESDAY, NOVEMBER 10

	Harbor 1 Room, Marriott	Johnson A Room, Hilton	Johnson B Room, Hilton	Latrobe Room, Hilton	Peale A, Hilton	Peale C, Hilton	Promenade, Marriott	Ruth Room, Hilton	Stadium 1 Room, Marriott	Stadium 4 Room, Marriott	University 2, Marriott
	Climate-resilient fishing communities	Highlighting Fisheries Successes along the Atlantic Coast	Contributed Papers: Freshwater fish ecology	Fish Welfare	Contributed Papers: Freshwater fishery management	Shifting angler dynamics in relation to the COVID-19 pandemic	The craft of communicating climate change: climate ambassador perspectives	Fish passage through the ages - historical approaches, current innovations, and future opportunities	Contributed Papers: Hatcheries and fish health	Contributed Papers: Fish genetics	Ecological forecasting: bridging fish, ecosystems, weather, water, climate and communities
8:00 AM	Adapting to climate-driven species shifts: a typology of fishermen's behavioral responses and ada... <i>Smith, Sarah</i>		A Unified Model of Walleye Recruitment <i>Krabbenhoft, Corey</i>		Big fish in a little tank: Blue Catfish stress in livewells <i>Kramer, Nick</i>	COVID-19 influences on US recreational angler behavior	AFS Climate Ambassador Program: Shaping the Climate Narrative <i>Winters, Drue</i>	High-speed Video Analysis of Simulated Turbine Blade Strikes to Determine the Effects of Fish Bod... <i>Amaral, Stephen</i>	Effects of ecologically relevant levels of glochidia infestation on metabolic rate and hypoxia to... <i>Horne, Lindsay</i>	Low coverage whole genome sequencing reveals molecular markers for spawning season and sex identi...	Habitat Modeling for Invasive Lionfish in the Gulf of Mexico Using a Bioenergetics-Based Growth M... <i>Bauer, Hanna</i>
8:20 AM	Encouraging More Climate-Resilient Commercial Fishing Ports in New Jersey <i>Zemeckis, Douglas</i>	More than just fish ages: Massachusetts Division of Marine Fisheries age and growth project <i>Elzey, Scott</i>	Recruitment of Smallmouth Buffalo in the Upper Mississippi River System <i>Maxson, Kristopher</i>		An assessment of age, growth, and otolith chemistry for White Catfish in the Penobscot River, Maine <i>Whittum, Kory</i>	Angler compliance with in Rockfish Conservation Areas in British Columbia, Canada, in response to... <i>Venturelli, Paul</i>	My "And, But, Therefore" Journey: Exploring A Framework for Clear, Compelling Communication <i>Guo, Lian</i>	DOCUMENTED IMPROVEMENTS IN FISH PASSAGE IN THE LOWER PATAPSCO RIVER FOLLOWING BLOEDE DAM REMOVAL <i>Harbold, William</i>	Using dispersal data to optimize egg planting strategies for Atlantic Salmon <i>Atkinson, Ernest</i>	Highly variable supergenes dominate genetic patterns of Atlantic Cod in the northwestern Atlantic... <i>Pavey, Scott</i>	Cyberinfrastructure for Near Real-time Water Quality Forecasting in Lakes and Reservoirs <i>Figueiredo, Renato</i>
								Contributed Papers: Fish passage			
8:40 AM	A social-ecological examination of seasonal dynamics in the Maine lobster fishery <i>Fitting, Emily</i>	Juvenile finfish relative abundance surveys in Maryland's Coastal Bays <i>Weedon, Craig</i>	Investigating Recruitment Patterns Among Upper Mississippi River Fishes <i>Muehler, Aaron</i>		Investigation of the Efficacy of Electrified Benthic Trawl on Young of Year Ictalurids in Varying... <i>Shaffer, Cassy</i>	Identifying motivations and barriers for Texas anglers who first purchased a license during the C... <i>Schlechte, Warren</i>	Storytime for Scientists <i>Donovan, Shaun</i>	Assessment of Atlantic Salmon Smolt Injuries during Emigration from 5 Maine Rivers from 1998-2019 <i>Gerrior, Jack</i>	Egg quality and the timing of broodstock diet shifts in southern flounder (<i>Paralichthys lethostigma</i>) <i>Bailey, Hunter</i>	Complex introgression among three diverged largemouth bass lineages <i>Silliman, Katherine</i>	Climate-ready and resilient fisheries: using satellite data to conserve and manage life in the <i>Farchadi, Nima</i>

WEDNESDAY, NOVEMBER 10

9:00 AM	Mind the trap: climate resilience and risks of rigidity in Iceland's fisheries <i>Mason, Julia</i>	The Maine-New Hampshire Inshore Trawl Survey: Twenty-one years of data collection to support scie... <i>Etchison, Luke</i>	Historical French Broad River: What we lost, how we lost it, and how to get it back <i>Etchison, Luke</i>	The Sociality of Atlantic Sturgeon and Sand Tiger in Dynamic Bay Environments <i>Roose, Robert</i>	Catch and Size Structure Comparison of Fishes and Turtles in Hoop Nets Using Three Different Baits <i>Schaick, Samuel</i>	Changes in demographics and distribution of Wisconsin anglers during the COVID-19 pandemic <i>Trudeau, Ashley</i>	All the Small Things: The Importance of Communicating About Plankton for Fisheries Science <i>Burns, Corinne</i>	Exploring movement patterns <i>Chavez, Martinique</i>	Gonadal differentiation and effects of estradiol-17β on the survival, growth, and sex reversal of... <i>Teal, Chad</i>	Building Collections and Genomic Resources for Conservation of Imperiled Fishes <i>Turner, Thomas</i>	Integrating Marine and Coastal Natural Capital into Ecological Forecasting: Challenges and Opport... <i>Rouleau, Tracy</i>
9:40 AM		Peconic Bay Trawl Survey – How Federal Aid Supports Projects that Improve Fisheries Sustainabilit... <i>Nunnenkamp, Paul</i>	Floodplain trophic subsidies in a modified river network: Managed foodscapes of the future? <i>Ogaz, Mollie</i>	In-pond raceway system technology improves production, growth, survival and profile of fatty acid... <i>Fatima, Shafaq</i>	Seasonal Movement Patterns and Use of Thermal Refuge for Muskellunge (<i>Esox masquinongy</i>) in the no... <i>Henesy, Joshua</i>	COVID-19 Pandemic influences on Iowa fishing license sales <i>Kopaska, Jeffery</i>	Using art to inspire wonder, introspection and conservation action <i>Killeen, Helen</i>	Dam Removal in 3D: Application of Stage 0 Design to Dam Removal <i>Wildman, Laura</i>		Comparison of environmental DNA and snorkel surveys for monitoring fish distributions in rivers <i>Shaffer, Jason</i>	
						Highlighting effective engagement in fisheries management					
10:00 AM		Long-term Monitoring of American Shad, Alewife, and Blueback Herring in the Virginian Tributaries... <i>McGrath, Patrick</i>		Assessment of production, growth, profile of amino acids and fatty acids in Tilapia (<i>Oreochromis</i> ... <i>Janjua, Raja Shahnawaz</i>	Quantifying Muskellunge Catch-and-Release Mortality in Stonewall Jackson Lake <i>Jenkins, Peter</i>	Making science and research relevant for effective fisheries management: Three case studies from ... <i>Morley, Danielle</i>	Incorporating land-based knowledge into the climate change discussion <i>Weinstein, Spencer</i>	A genetic evaluation of dam impacts on Sauger (<i>Sander canadensis</i>) movement patterns in the Arkans... <i>Jonagan, Emily</i>		Development of an Environmental DNA (eDNA) Assay to Delineate the Distribution of the Imperiled S... <i>Walker, Adam</i>	

WEDNESDAY, NOVEMBER 10

10:20 AM		Striped Bass (<i>Morone saxatilis</i>): Long Term Monitoring and Management of New York's State Saltwater... <i>Best, Jessica</i>		Presence of Statin and Beta-blocking Agents in West Virginia Surface Waters and sub-lethal Impact... <i>Kingsbury, Joseph</i>	Distribution and movements of catostomids in a river-reservoir complex and susceptibility to tour... ZENTNER, DOUGLAS	Fisheries and Aquaculture Biodiversity in India: Economic Potentials and Environmental Concerns <i>Muthiah, Muruganandam</i>	The North Atlantic right whale and changing ocean conditions <i>Baumwell, Leah</i>	Bigmouth Buffalo Movement and Habitat Overlap with Paddlefish and Bigheaded Carp <i>Sea, Bryan</i>			
				Shifting a paradigm Whitewater Parks and Biota		Contributed Papers: Stakeholder engagement		Getting It Right: Advancing Successful Supplementation for Recovery, Rec, and Restoration			
1:20 PM		Artificial Reefs of Delaware – we built them, did they come? <i>Newlin, Scott</i>		Keynote	A meta-analysis of shoreline angling metrics in large impoundment/tailwater systems in Kansas <i>Neely, Ben</i>	Bank Anglers have opinions, too. <i>Feltz, Jessica</i>		An Assessment of Relaxed Selection in Hatchery Populations of Pink and Coho Salmon by Analysis of... <i>Reich, Alexandra</i>			
1:40 PM				Whitewater River Parks - History and Design <i>McLaughlin, Richard</i>	Quantifying Catch-and-Release Mortality of James River, Virginia Muskellunge <i>Bauerlien, Cory</i>	Trust in Fisheries Science: Hard to Earn, Easy to Lose, Impossible to Regain <i>Rose, Kenneth</i>					
2:00 PM		Applying Impervious Surface Thresholds to Guide Fish Habitat Management <i>McGinty, Margaret</i>		Designing Whitewater Parks for Passage of Nonsalmonid Fishes <i>Ficke, Ashley</i>	A literature review of the effectiveness of harvest regulations to meet size structure goals. <i>Hill, Tommy</i>			Evaluation of saltwater quarries in the Florida Keys (FL) for the semi-wild mariculture of Caribb... <i>Glover, Samantha</i>			

WEDNESDAY, NOVEMBER 10

		Fisheries resources in Chesapeake Bay: a view using an ecosystem lens									
2:20 PM		Trading space for time: The Chesapeake Biological Laboratory's temporally-intensive juvenile fish... <i>O'Brien, Michael</i>		A guidance document for reviewing whitewater park projects <i>Kondratieff, Matthew</i>	NCIFD: An R Package for the Inland Fisheries Division of the North Carolina Wildlife Resources Co... <i>Wheeler, Powell</i>						
2:40 PM		Characterizing juvenile Atlantic Menhaden (<i>Brevoortia tyrannus</i>) distribution and schooling in sha... <i>Lankowicz, Katie</i>			Length-weight Relationship of Freshwater shrimps (<i>Atya gabonensis</i>) at River Mu, Benue State, Nige... <i>Jimoh, Taofeek</i>						
3:20 PM				How do the river and the people both win? <i>Bonitatibus, Tonya</i>	Population Structure of Gizzard Shad in the Upper Mississippi River <i>Ewigman, Elaine</i>						
3:40 PM				Economic Development Aspects of Ecosystem Restoration and Whitewater Project <i>Kinner, Edward</i>	Rainbow Trout Growth and Mortality on the Beaver Tailwater (White River) in Arkansas <i>Cunningham, Connor</i>						

WEDNESDAY, NOVEMBER 10

4:00 PM					Movement patterns of Striped Bass (<i>Morone saxatilis</i>) in a river-reservoir complex relative to ang... <i>Vaisvil, Alex</i>						
4:20 PM				Panel Discussion	Population Assessment of a Threatened Fish Species Using Remotely Operated Vehicle Technology and... <i>Snyder, Blaine</i>						