



2024 Iowa AFS Meeting
Cobblestone Inn and Events Center
1900 Lakewood Drive
Boone, IA 50036
March 6-7, 2024

Wednesday, March 6, 2024

11:00-12:00	Check-in/Registration	
12:00-1:00	Lunch	Moderator: Dan Rosauer
1:00-1:10	Welcome and Housekeeping	
1:10-1:30	Differentiating Bigheaded Carp Movement Behaviors in a Dynamic Missouri River Tributary	Seth Renner, Iowa State University
1:30-1:50	Examination of Silver Carp Activity Patterns using Bi-Axial Accelerometer Transmitters	Brandt Boekhout, Iowa State University
1:50-2:10	Influence of an Electric Barrier on Invasive Carp Upstream Movements Across a Range of Environmental Conditions	Britney Hall, Iowa State University
2:10-2:30	Recruitment Dynamics of Silver Carp Informed by Early Life Environments in the Upper Mississippi River	Jimena Golcher-Benavides, Iowa Cooperative Fish and Wildlife Research Unit
2:30-2:45	Afternoon Break	
		Moderator: Greg Gelwicks
2:45-3:05	Reproductive Phenology of Native and Invasive Fishes in Northwestern Iowa Tributaries	Annika Preheim, Iowa State University
3:05-3:25	Mississippi River Lock and Dam 22 Fish Passage	Kyle Bales, USACE
3:25 - 3:45	Comparing Fish Assemblages in the Upper Mississippi River to Inform Restoration	Hannah Lenning, Iowa DNR/UNK
3:45-4:05	Lake Sturgeon Management, a Minnesota Perspective	Nick Schlessler, Minnesota DNR
4:05-4:20	Break	
4:20-5:30	Iowa AFS Annual Business Meeting	
5:30-6:30	Social and Poster Session	
6:30-7:30	Banquet (Dinner and Awards)	
7:30 - 9:00	Social, Auction, and Raffle	

Thursday, March 7, 2024

7:00 - 8:00	Networking Breakfast	
		Moderator: Jonathan Meerbeek
8:00 - 8:20	Conditions Associated with the Occupancy and Detection of Fishes of Greatest Conservation Need in Wadeable Streams and Rivers of Western Iowa	Eli Lagacy, Iowa State University
8:20 - 8:40	Comparing Walleye Survival, Escapement, and Harvest Estimates in Rathbun Lake, Iowa	Robert Cope, Iowa State University
8:40 - 9:00	A tool to assess the economic costs and benefits of barriers to minimize reservoir fish escapement	Madeline Lewis, Iowa State University/Iowa DNR
9:00 - 9:20	The Cicadian Rhythm: Preparation for Evaluating the Availability, Use, and Consequences of Periodical Cicadas to Stream Fishes	Dr. Richard Walker, Upper Iowa University
9:20 - 9:40	Effects of River Discharge on Recruitment and Growth of Plain Pocketbooks (<i>Lampsilis cardium</i>)	Annika Richards, Iowa State University
9:40 - 10:00	Caught Between a Rock and Hard Place - Collecting Spectaclecase and Salamander Mussel eDNA on the UMR	Joseph Jordan, USACE
10:00 - 10:15	Morning Break	
		Moderator: George Scholten
10:15- 10:35	Investigating the Prevalence of “Forever” Contaminants in Small Agricultural Streams in Iowa: The Importance of a Multi—Matrix Approach	Shannon Meppelink, USGS
10:35 - 10:55	Assessing Microplastics in Reservoirs: An Update on the Multi-State Plan	Rebecca Krogman, Iowa DNR
10:55-11:15	Fry-Day Night Lights: Setting up the Battle Between Walleye Stocking Contributions and Alewife Food Habits in Lake McConaughy	Logan Zebro, University of Nebraska at Kearney
11:15 - 11:35	Juvenile Hybrid Striped Bass Post-Stocking Dispersal, Survival, and Escapement in two Iowa Reservoirs	Connor Fiolek, Iowa State University
11:35 – 11:55	Is Bigger Always Better? The Effect of Muskellunge Length on Stocking Survival	Madeline Lewis, Iowa State University/Iowa DNR
11:55-12:00	Parting Remarks	

Poster Presentations Wednesday March 6, 2024

	Unraveling the Ecological Relationships: How Land-Use Change Affects Fish Assemblage Structure and Function in Iowa's Stream Ecosystems	Kaiden Marten, Upper Iowa University
	Preliminary Assessment of Stream Water Temperatures in the Volga River Watershed	Dr. Richard Walker, Upper Iowa University
	Wading in the Driftless: Preliminary Evaluation of Fish Assemblages in the Volga River Watershed	Joahua Hefflefinger, Upper Iowa University
	Incremental Growth Rates in a Cedar River population of Shovelnose Sturgeon through a 17-year Mark-Recapture Dataset	Juliana Kaloczi, Iowa State University
	Assessing the utility of Back-Calculated Length at Age to Predict Fry Versus Advanced Fingerling Walleye Stocking Contribution	Aysah Dondlinger, Iowa State University
	Assessing the Impact of Catchable Rainbow Trout Stockings on Age-0 Bluegill abundance in Community Lakes	Aysah Dondlinger, Iowa State University
	Habitat Associations of Invasive Rusty Crayfish in a Shallow Natural Lake	Dalton Clayton, Iowa State University
	Examining Drivers of Temporal Variation in Hybridization Outcomes in Bigheaded Carp in the Upper Mississippi River	Dr Jimena Golcher-Benavides, Iowa Cooperative Fish and Wildlife Research Unit
	Predicting Suitability of Mississippi and Missouri River Tributaries for Invasive Carp Spawning Using Habitat Suitability Models	Britney Hall, Iowa State University
	Silver Carp Tributary Movements with Potential Metapopulation Implications	Brandt Boekhout, Iowa State University
	Assessing the Power and Precision of a Multi-Year Invasive Carp Larval Monitoring Program in the Upper Mississippi River	Annika Preheim, Iowa State University
	Factors Affecting Invasive Carp Residency Patterns in Small Missouri River Basin Streams	Seth Renner, Iowa State University