

2023 Missouri River Science and Management Symposium

Friday, October 27, 2023
 Muenster University Center Ballroom 225A
 University of South Dakota



Time	Speaker	Title
9:00	Robb Jacobson (University of Missouri)	A tale of two rivers: Contrasting trajectories of development and conservation on the Missouri and Mississippi rivers
9:50	Jordan Smith (USFWS, Yankton, SD)	Recovery of the Northern Great Plains Piping Plover
10:20	MORNING BREAK	
10:40	David Swanson , Claire Boyko, and Olivia Gulseth (USD Biology)	On-River and Off-River Least Tern Abundance on the 59-mile reach of the MNRR
11:00	Tim Cowman , Jaron Condley (South Dakota Geological Survey)	River-Aquifer interactions in the Missouri River floodplain
11:20	Harrison Freund (NPS, Missouri National Recreational River)	Past is not Prologue: Climate change planning for the MNRR
11:40	Coral Huber (USACE)	The MRRP Information management system (IMS): A tool for recovery program management decision making
12:00	LUNCH BREAK	
1:20	Staci Reynolds , Vojsava Gjoni, Jeff Wesner (USD Biology)	Temperature and predation effects of planktonic community size distribution
1:40	Nadeesha Illeperuma, Mark Dixon , David Swanson, Ranjeet John (USD Biology)	Effects of redcedar invasion along the Missouri River on richness and abundance of riparian birds
2:00	Nadeesha Illeperuma , Kim Magnuson, John Gillaspie Ranjeet John, Mark Dixon (USD Biology)	Mapping cottonwood dieback along the MNRR using remote sensing
2:20	Sakshi Saraf , Ranjeet John, Reza Goljani Amirkhiz, Venkatesh Kollaru, Khusboo Jain, Matthew Rigge, Vincenzo Giannico, Stephen Boyte, Jiquan Chen, Geoffrey Henebry, Meghann Jarchow, and Farraele Laforteza (USD Biology and Sustainability & Environment)	Biophysical drivers for predicting distribution and abundance of invasive Yellow Sweet clover invasion in the Missouri River Basin of the Northern Great Plains
2:40	AFTERNOON BREAK	

3:00	Justin Sorenson , Alison Gross, Anna Kase, Jake Kerby (USD Biology)	Zebra Mussels in South Dakota: Estimates of economic and biological impacts
3:20	Kaitlyn Campbell, Andy Baltensperger, Jake Kerby (USD Biology)	Using future climate and land-use scenarios to predict amphibian distribution change in the Upper Missouri River Basin
3:40	Joe Bonneau (USACE)	Update on pallid sturgeon related efforts in the Missouri River Recovery Program
4:00	ADJOURN	

POSTER SESSION

Please visit the posters relating to Missouri River research in the MUC Foyer during the morning and afternoon breaks. Posters will also be available for viewing for South Dakota Academy of Science members during the poster session on Saturday afternoon.

Poster Authors (presenter in bold)	Title
Zach Schild , Ranjeet John, Venkatesh Kolluru, Sakshi Saraf, Mark Dixon	Using object-based image analysis to track changes in Russian olive distribution along the Missouri River in response to flooding
Aria Smith , Vojsava Gjoni, Jeff Wesner	Interaction of environmental factors on macroinvertebrate body size
Jacob Woelber , Vojsava Gjoni, Jeff Wesner	Metabolic scaling in aquatic macroinvertebrates

7 pm – Keynote Address – Farber Hall, Old Main

Tyler J. Kelley – Author of *Holding Back the River: The Struggle Against Nature on America's Waterways* (<https://www.simonandschuster.com/books/Holding-Back-the-River/Tyler-J-Kelley/9781501187063>).

Books will be available for purchase and the author will conduct a book signing after the keynote address courtesy of *Outside of a Dog Books and Games*, Vermillion, SD