



Bettendorf, Iowa
Waterfront Convention Center

Upper Mississippi River Restoration Program A Workshop Workbook

May 7-9, 2024

Participants are encouraged to view a series of recorded webinars in advance of the workshop, available at the following locations regarding:

- UMRR's primary functions and relevant efforts: <https://www.mvr.usace.army.mil/Missions/Environmental-Stewardship/Upper-Mississippi-River-Restoration/Key-Initiatives/HREP-Workshops/HREP-2019/>
- UMRR's science that supports its restoration strategies: <https://www.mvr.usace.army.mil/Missions/Environmental-Stewardship/Upper-Mississippi-River-Restoration/Key-Initiatives/Workshops/>

**Get to know your fellow attendees by filling out a virtual business card.
Use the QR code below or the following link to access the Padlet platform:**
<https://padlet.com/umrbastaff/about-us-tzr8bit2uxq19zg4>



Tuesday, May 7

Time	Topic	Presenter	Format
12:30 p.m.	Welcome and Introductions	Marshall Plumley, USACE	
<i>NOTES</i>			
12:40	UMRR Overview <ul style="list-style-type: none">▪ Authorization Changes (Funding Levels)▪ Project Sizes and Project Selection Process▪ Risk Informed Planning▪ Study Area, Project Areas, Phases, and Stages▪ New Project Sponsors▪ Changes to Review Processes▪ Feasibility Report Template▪ LTRM Implementation Planning	Marshall Plumley, USACE	Large Group Presentation

NOTES

(May 7 Continued)

Time	Topic	Presenter	Format
1:15	Partner Agency/Organization Priorities and Perspectives	UMRR Coordinating Committee	Large Group Presentation

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2:15	Live Polling Exercise	All	Large Group Facilitated Discussion
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Live Polling will focus on introducing the PollEverywhere tool and better understanding workshop participants.

NOTES

2:35 **Break – After break, please come back and sit in groups of 8 at tables for the next session.**

3:00	UMRR Strategic Plan A discussion of the most important issues for UMRR to consider over the next 10 years	Marshall Plumley and Chrissa Waite, USACE	Small Group Table Top Discussion
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Live Polling will focus on Strengths, Weaknesses, Threats, and Opportunities related to UMRR and critical issues UMRR must address in the next 10 years.

NOTES

(May 7 Continued)

Time	Topic	Presenter	Format
3:45	Climate Change <ul style="list-style-type: none">▪ Live Polling Exercise▪ Climate Change Analysis for HREPs▪ UMRS Future Hydrology ▪ Building Knowledge to Support Equitable Climate Resilience in the UMR Basin▪ Resist-Accept-Direct Framework	All Lucie Sawyer, USACE Molly Van Appledorn and John Delaney, USGS Zac McEachran, NOAA Kristen Bouska, USGS	Large Group Facilitated Discussion

Live Polling will focus on resources available to understand climate change impacts in the UMRS, experiences and challenges with incorporating resilient design and adaptive management in HREP projects, responsibilities of PDT members in assessing climate change impacts, and implementing the RAD framework in UMRR.

NOTES

5:45 **Adjourn**

6:30 p.m. **An evening social will be held at Armored Gardens in Davenport, IA – 315 Pershing Ave**

(May 8 Continued)

Time	Topic	Presenter	Format
9:30	HREP Design Handbook Breakouts <ul style="list-style-type: none">▪ Overview and Instructions	Kara Mitvalsky, USACE	Small Group Interactive Sessions
	<i>NOTES</i>		
9:45	<ul style="list-style-type: none">▪ Six rotating stations<ul style="list-style-type: none">– Dredging– Islands– Shoreline and River Bank Protection and Aquatic Structure for Habitat– Training Structures and Channel Modifications– Forestry and Floodplain Restoration– Localized Water Level Management	All	
	<i>NOTES</i>		
11:15	<ul style="list-style-type: none">▪ Preferred station debrief update discussion	All	
	<i>NOTES</i>		
12:00 noon	Lunch		

(May 8 Continued)

Time	Topic	Presenter	Format
1:00	Resilience Based Goals and Objectives for HREPs: UMR's Rosetta Stone for Science, Habitat, and Engineering	Jeff Janvrin, WI DNR	Large Group Presentation and Learning

Discussion will focus on perspectives regarding the immediate adoption, piloting, or customization of resilience-based goals and objectives, as well as identifying potential challenges in adopting standardized yet flexible goals.

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1:30	Linking Restoration Actions to Biotic Responses	Kristen Bouska, USGS	Small Group Interactive Sessions
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Discussion will focus on specifying and establishing certainty of relationships between major resources, habitat requirements, and controlling variables, identifying HREP measures to address habitat requirements, and documenting supporting literature and references.

NOTES

2:30 **Break – After break, please come back and sit in groups of 8 at tables for the next session.**

(May 8 Continued)

Time	Topic	Presenter	Format
2:50	HREP Monitoring <ul style="list-style-type: none">▪ The Future of HREP Monitoring▪ Environmental Monitoring and Management Application (EMMA)	Marshall Plumley, USACE Mike Dougherty, USACE	Large Group Presentation, Small Group Breakout, and Facilitated Discussion
<i>Small group discussion will focus on key considerations and strategies for effective habitat monitoring, including identifying gaps, purposes, spatial scales, protocols, and data management.</i>			
<i>NOTES</i>			
4:10	Modeling for Decision Making <ul style="list-style-type: none">▪ Habitat Modeling Applied to HREPs▪ Large Scale and System Model Applications	Collin Moratz, USACE Nathan De Jager, USGS	Large Group Learning and Facilitated Discussion
<i>NOTES</i>			
4:50	Day Two Reflection	All	Large Group Facilitated Discussion
<i>NOTES</i>			
5:00 p.m.	Adjourn		

Thursday, May 9

Time	Topic	Presenter	Format
8:00 a.m. <i>NOTES</i>	Welcome and Day 2 Recap	<i>Marshall Plumley, USACE</i>	
8:15	Science and Restoration Integration Panel <ul style="list-style-type: none">▪ Evaluations of Aquatic Vegetation Response at Pool 8 Islands using LTRM SRS Data▪ Lower Pool 13 Project Development Team (PDT) Lessons Learned▪ Lower Pool 13 HREP-Associated Research Project (HARP)▪ Lower Pool 4 – Big Lake PDT	<i>Jeff Janvrin, WI DNR</i> <i>Ed Britton, USFWS</i> <i>Jeff Houser, USGS</i> <i>Elliot Stefanik, USACE</i>	Large Group Learning and Facilitated Discussion

Panel discussion will focus on the impact of long-term resource monitoring data on habitat rehabilitation projects in key trend pools, including insights gained, challenges faced, data integration into adaptive management, and strategies for leveraging ongoing monitoring to enhance project planning, design, and resilience.

NOTES

(May 9 Continued)

Time	Topic	Presenter	Format
10:00	Program Areas of Focus <ul style="list-style-type: none">▪ UMRR Communications and Outreach Team▪ Live Polling Exercise	<i>Rachel Perrine, USACE</i> <i>All</i>	Large Group Learning and Facilitated Discussion

Discussion will focus on how the UMRR Communication and Outreach Team can best support the program, assess satisfaction with current communication materials, and gather suggestions for additional resources related to HREP and LTRM communication efforts.

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- Comprehensive Benefits for HREPs & Quincy Bay Environmental Justice Example ***Marshall Plumley and Rachel Perrine, USACE***
- Live Polling Exercise ***All***

Discussion will focus on UMRR's strategies to implement policy directives related to comprehensive benefits and support the Justice40 Initiative, as well as resources available within agencies or organizations to measure Other Social Effects.

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11:30	Day Three Reflection	<i>All</i>	Large Group Facilitated Discussion
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Discussion will include a review of outcomes from the strategic plan discussion and address unresolved questions.

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12:30 p.m.	Adjourn		
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Thank you to the planning committee!

Marshall Plumley	U.S. Army Corps of Engineers
Kara Mitvalsky	U.S. Army Corps of Engineers
Brian Markert	U.S. Army Corps of Engineers
Lane Richter	U.S. Army Corps of Engineers
Elisa Royce	U.S. Army Corps of Engineers
Angela Deen	U.S. Army Corps of Engineers
Kacie Opat	U.S. Army Corps of Engineers
Julie Millhollin	U.S. Army Corps of Engineers
Davi Michl	U.S. Army Corps of Engineers
Sara Schmuecker	U.S. Fish and Wildlife Service
Sharonne Baylor	U.S. Fish and Wildlife Service
Jeff Houser	U.S. Geological Survey
Jim Fischer	U.S. Geological Survey
Kirk Hansen	Iowa Department of Natural Resources
Ryan Hupfeld	Iowa Department of Natural Resources
Vanessa Perry	Minnesota Department of Natural Resources
Nicole Ward	Minnesota Department of Natural Resources
Matt Vitello	Missouri Department of Conservation
Jeff Janvrin	Wisconsin Department of Natural Resources
Brenda Kelly	Wisconsin Department of Natural Resources
Andrew Stephenson	Upper Mississippi River Basin Association

Thank you to all the workshop participants!

Please take a moment to jot down your thoughts on the workshop: What aspects did you find particularly beneficial? Were there areas that could be enhanced? Your feedback will be valuable for our post-workshop evaluation and will help us enhance future workshops. Thank you for your input and participation in the workshop!

The UMRR Apparel Store is open for two weeks only!

Place your orders by May 19!

[https://stores.inksoft.com/upper mississippi river](https://stores.inksoft.com/upper_mississippi_river)

