

Sunday – June 8th

**8:00-8:30 Short Course Registration
8:30-4:30 Short Course: Succeeding With a Dam Removal Project *
4:30-6:00 Ice Breaker & Conference Registration**

Monday - June 9th (Morning Session)

Time	Track A (Capital Ballroom A)	Track B (Capital Ballroom B)	Track C (Conference Room I)	Track D (Conference Room II)
7:45	Registration and Breakfast			
8:15	Introduction and Welcome (Madison/Wisconsin Ballroom)			
8:30	“Listening to the Song of the River: Aldo Leopold, Watersheds, and the Land Ethic” Curt Meine, Aldo Leopold Foundation / Center for Humans and Nature (Madison/Wisconsin Ballroom)			
9:15	“Large River Restoration: The Need for Science-Based Adaptive Management” Larry Weber, University of Iowa: Iowa City, Iowa (Madison/Wisconsin Ballroom)			
10:00	Break			
	Session A1: Alignment on Regional Connectivity Priorities and Goals: Launching a Great Lakes Regional Connectivity Collaborative I: P. Doran	Session B1: Culverts: L. Mauldin	Session C1: Water Management to Improve Fish Habitat in Dam Tailraces: T. Lyons	Session D1: Fishway Design: M. Melchior
10:20	P. McIntyre; Using optimization models to support barrier removal decisions for native migratory fishes in Great Lakes tributaries	H. Santos; Three dimensional numerical model of Stairs Pipe culverts	R. Laughery; Evaluating a Columbia River Dam Tailrace Habitat with CFD	A. Haro; Effect of Upstream Fish Passage Structure Entrance Design and Head Differential on Attraction and Entry of Adult Shortnose Sturgeon
10:40	M. Guyette; Accounting for invasive species when prioritizing barrier removals in Great Lakes tributaries	K. Hughes; Effective mitigation techniques for culverts	J. Gulliver; Prediction of Total Dissolved Gas below Overthrough Spillways	E. Zapel; Innovative Hybrid Design of Issaquah Creek Hatchery Water Supply Intake Using Physical Scale Modeling as a Collaborative Tool
11:00	M. Herbert; Accounting for the benefits: mapping the key tributaries for migratory fish	S. Januchowski-Hartley; A predictive method for quantifying road culvert passability	M. Politano; Taming Total Dissolved Gas using Advanced Computer Simulations and Reduced Scale Models	R. Greif; Innovative Fish Passage: A Cost-Effective Solution for High-Head Hydro
11:20	K. Dolata; Implementing Strategic Connectivity Restoration Projects	K. Nichols; Newton Creek Gets a Step Up	J. Syms; The Effect of Turbulence in Hydropower Dam Fish Passageways on Pacific Lamprey Passage	J. Turek; Design and Construction Practices for the Kenyon Mill Step-Pool Nature-like Fishway, Pawcatuck River, Rhode Island
11:40	A. Beyer; The view from the field – what are the greatest policy needs and opportunities to get more of this work done	M. Yaw (M. Yaw & S. Aston); Design and Physical Model Testing of a Bottomless Baffled Culvert	N. Burnett; Burst swimming in areas of turbulent flow: delayed consequences of anaerobiosis in wild adult sockeye salmon	B. Lake; The Coleman Pond Fishway: Novel site identification, design, and construction of a nature-like pool and weir fishway.
12:00	Lunch			

Monday - June 9th (Afternoon Session I)

Time	Track A (Capital Ballroom A)	Track B (Capital Ballroom B)	Track C (Conference Room I)	Track D (Conference Room II)
	Session A2: Alignment on Regional Connectivity Priorities and Goals: Launching a Great Lakes Regional Connectivity Collaborative II: P. Doran	Session B2: Reference Reach or Doppelganger? How do we know an analog fits a restoration site or adapt for success?: D. Ruttenberg	Session C2: Fish Guidance & Protection I	Session D2: Fish Passage Policy Around the World: T. Ehlinger
1:30	S. Sowa; The Great Lakes IMDS: Helping advance lanscape-scale collaboration and strategic conservation	M. Chelminski; Reconnaissance-Level Assessment of Dam Removal for Upstream Fish Passage	D. Hayes; Emergency Pumping Plant Fish Protection Screens at California's Red Bluff Diversion Dam	M. Redeker; An Overview Of The New German Fishway Standard For Upstream Fish Passage
1:50	T. Hogrefe; Developing regional goals for connectivity restoration	S. Allen; Design Challenges using Reference Reaches in Manipulated Watersheds	U. Dumont; Installation of a pilot plant for fish protection an bypass systems	R. Celebi; The Legal Status of Fish Passage and Challenges In Turkey
2:10	M. Brouder; Toward a shared vision and strategy for improving connectivity across the Great Lakes basin	J. MacBroom; Reference Reaches; Opportunities and Limitations	D. Lentz; North Battle Creek Feeder Fish Screen and Fishway Model	C. Bozek; Green Infrastructure and Blue Habitat- making the connection in Massachusetts
2:30	P. Doran; Discussion and closing remarks	A. Selle; Channel Restoration during Dam Removal – Letting the River do the Work. Lessons from the Brown Bridge Dam Removal	D. Erickson; Design, Construction, Installation and Operation of Three Large Scale Netting Fish Barrier Projects	J. Hastings; Developing Habitat for the Wild & Rare
2:50	Break			

Monday - June 9th (Afternoon Session II)

Time	Track A (Capital Ballroom A)	Track B (Capital Ballroom B)	Track C (Conference Room I)	Track D (Conference Room II)
	Session A3: Great Lakes Lamprey Research, Management and Policy I: A. Selle	Session B3: Fishway Monitoring and Evaluation: T. Castro-Santos	Session C3: Fish Guidance & Protection II: K. Mulligan	Session D3: Stream Simulation Design of Road-Stream Crossings: R. Gubernick
3:10	M. Siefkes; Great Lakes Fishery Commission Policy on Sea Lamprey Barriers and Dam Removals	Joint ASCE-EWRI & AFS-BES Committee Award Winners	S. Scott; Barrier Nets for Fish Guidance and Reduction of Entrainment at Water Intakes	R. Gubernick; Stream Simulation Design in High Gradient Channels
3:30	J. Barber; Fixed-crest sea lamprey barrier design and operation	T. Castro-Santos; Cumulative delay and passage performance of sea lamprey ascending four fishways.	S. Amaral; Evaluation of Bar Rack Spacing and Approach Velocity for Preventing Entrainment of Silver American Eels at Hydropower Projects	D. Higgins; Stream Simulation in Very Low Gradient Channels
3:50	R. McLaughlin; Passage options for walleye and lake sturgeon at the dam site on the Black Sturgeon River, Lake Superior, Canada	C. Bunt; Unintended Fishway Passage and Transport of Native and Non-Native Lampreys (Petromyzontidae)	M. Politano; Modeling of a non-physical fish barrier	J. Olson; Do Stream Simulation Culvert Designs Improve Ecosystem Function? A Case Study in Northern Wisconsin
4:10	R. McLaughlin; The efficacy of seasonally operated barriers for sea lamprey control and passage of non-target fishes	J. Raabe; Evaluation of Fish Passage Following Installation of a Rock Arch Rapids at Lock and Dam #1, Cape Fear River, North Carolina	C. Gurshin (B. Lenz); Increased Downriver Passage of Juvenile Blueback Herring after Reconfiguring an Ultrasonic Field	S. Eggert; Benefits of Stream Simulation Design Culverts on Biological Productivity
4:30	N. Johnson; The quest for an effective non-physical migration barrier for invasive sea lamprey	M. Weiland; Analysis of Multiyear Acoustic Telemetry Data to Assist in Determining Operations at Bonneville Dam on the Columbia River	M. O'Farrell; Use of Electric Fish Guidance Technology to Deter Salmonids from Entering Hydro Tailraces and Intake Canals: Two Case Studies	M. Weinhold; Stream Simulation Lessons Learned – Case Studies from Here and There
4:50	P. Hrodey; A New Tool to Trap and Sort Migrating Adult Sea Lamprey	L. Hahn; Fishway use and movements of giant migratory catfishes downstream of a large hydropower dam in the Brazilian Amazon	TBD	H. Bentz; Factors to Consider When Selecting a Structure for an AOP Design
5:10	Intermission			
5:30 to 7:30	Poster Session and Social (University Rooms A/B/C/D)			
5:45 to 6:45	Extended discussion: Great Lakes Connectivity Restoration (University Rooms A/B)			

Tuesday – June 10th (Morning Session)

Time	Track A (Capital Ballroom A)	Track B (Capital Ballroom B)	Track C (Conference Room I)	Track D (Conference Room II)
7:45	Registration and Breakfast			
8:15	Introductions (Madison/Wisconsin Ballroom)			
8:30	“Seven Rivers: Global Perspectives on Environmental Flows” Richard Beilfuss, International Crane Foundation (Madison/Wisconsin Ballroom)			
9:15	“The Broad Implications of Connectivity” Luther Aadland, Minnesota Department of Natural Resources Stream Habitat Program (Madison/Wisconsin Ballroom)			
10:00	Break			
	Session A4: Great Lakes Lamprey Research, Management and Policy II: A. Selle	Session B4: Fish Passage and Fluid Dynamics Modeling: M. Chelminski	Session C4: Fish Passage in the Midwest and the Challenges of Invasive Species and Disease: N. Utrup	Session D4: Case Studies I: J. Morales
10:20	N. Johnson; Alternatives to sea lamprey barriers: pheromones and trapping	H. Santos; Fish numerical model based on fish behavior in flumes	D. Caneff; Social and Political considerations for Fish Passage at Hydro Dams in the Age of Asian Carp and Other AIS	S. Arnold; Fish Passage Enhancement at York Haven Dam – Reconnecting the Lower Susquehanna River
10:40	T. Neeson; Accounting for sea lampreys in a Great Lakes barrier removal decision support tool	B. Duarte (H. Santos); Three dimensional multiphase CFD model for studies of fish behavior: an application to Três Marias dam (Brazil)	N. Frohnauer; Don't Forget the Natives!	P. Foote; Installation of Successful Combined Denil Fishway and Eelway at Upper Mystic Lake, MA
11:00	J. Carey; Lamprey Barrier Design and Fish Passage in Great Lakes Tributaries	A. Schlindwein; The 3-Dimensional Design of Midwestern Grade Control Structures for Karman Gait Fish Passage Characteristics	G. Whitley; Natal environment and movement of Asian carps in the upper Mississippi River inferred from otolith chemistry	M. Clay (S. Milligan); Process for Selecting the Optimum Location for a Juvenile Fish Bypass Outfall at Lower Granite Lock and Dam
11:20	PANEL	A. Amado; An approach to model swimming behavior of smolts in the forebay of hydro dams	S. Tripp; Asian carp expansion in the Mississippi River: Focusing on the leading edge of the stronghold	K. Martin; Fish Passage Facilities as Part of the Penobscot River Restoration Project
11:40		N. Nekouee; Fish Passage Design Using CFD Modeling	N. Utrup; Fish passage at hydropower dams in Wisconsin and concerns with invasive species, disease, and contaminants	J. Renholds; Prototype modifications within a flood control channel to improve fish passage in Mill Creek near Walla Walla, WA
12:00	Lunch			

Tuesday – June 10th (Afternoon Session I)

Time	Track A (Capital Ballroom A)	Track B (Capital Ballroom B)	Track C (Conference Room I)	Track D (Conference Room II)
	Session A5: Lake Sturgeon Passage on the Menominee River I: C. Alsberg	Session B5: Prioritization: A. Singler	Session C5: Fish Passage at Whitewater Parks: J. Rathbun	Session D5: Case Studies II: T. Osting
1:30	J. Fossum; History of the Menominee River multi-partner fish passage initiative	R. Weiter; Barrier Removal Prioritization for Stream Resident Species on the Westfield River in Western Massachusetts	M. Kondratieff; Whitewater Park Hydraulics: Implications for Fish	S. Hunter; Hydraulic analysis and risk assessment of a proposed fish barrier for Johnson Creek, Utah.
1:50	R. Elliott; Habitat and population based rational for lake sturgeon passage on the Menominee River	M. Keefer; Metrics to identify fishway passage bottlenecks in the multi-species Columbia River	A. Ficke; Are whitewater parks movement barriers to Great Plains fishes?	J. Mann; Design and Management of a Multifaceted Fish Passage Improvement Project
2:10	M. Donofrio; Green Bay Lake Sturgeon Spawning Fidelity	E. McCombs; Dam removal and freshwater mussels: effective restoration and prioritization through case studies	T. Stephens; Spatially explicit hydraulic analysis of the effects of whitewater parks on fish passage	R. Voicu; Presentation the history of fish ladder construction in România and one concrete frontal solution that can achieve longitudinal connectivity of the Crișul Repede River. A case study
2:30	N. Utrup; Can we attract lake sturgeon to a fishway?	M. Diebel; A Screening Method for Identifying Fish Passage Barriers at Road Crossings Using LiDAR-Derived Elevation Data	J. Conyngham; Recreational Amenities as Unintended Passage Barriers: Hydraulic Characterization of a Whitewater Play Wave	B. Ghosh; Hydraulic impact on fish migration in a sariakandhi fish pass of Bangladesh.
2:50	Break			

Tuesday – June 10th (Afternoon Session II)

Time	Track A (Capital Ballroom A)	Track B (Capital Ballroom B)	Track C (Conference Room I)	Track D (Conference Room II)
	Session A6: Lake Sturgeon Passage on the Menominee River II: C. Alsberg	Session B6: Fish Migration and Movement Studies: M. Lang	Session C6: Downstream Passage: J. Rothlisberger	
3:10	J. Waldrip; Lake Sturgeon Passage at Five Hydroelectric Dams on the Menominee River	W. de Bruijne; Towards a Healthy Danube - Fish migration at the Iron Gate dams	M. Chelminski; Go with the Flow: Scoping, Design, and Implementation of a Downstream Fish Passage System at a FERC-Licensed Hydroelectric Facilities	
3:30	C. Tomichek; Estimating Downstream Passage Efficiencies for Sturgeon Under Different Scenarios	M. Kirk; Using network theory to formulate behavioral inferences from the movement patterns of Chinook salmon and Pacific lamprey	T. McCarthy; Conservation of Anguilla anguilla in Ireland by trap and transport of silver-phase eels from sites upstream of hydropower dams	
3:50	R. Alsberg; A Hydro Owner's Perspective on Planning, Consultation, and Implementation of Lake Sturgeon Passage on the Menominee	L. Hahn; Movements of dourado (Salminus brasiliensis) transported upstream of a dam in a subtropical river in southern Brazil	S. Amaral; Downstream Passage Survival Analysis for a Proposed Hydro Project in Estonia	
4:10	D. Caneff; Multi-stakeholder partnership: keys to successful planning and implementation of fish passage from the NGO perspective	N. Bett; Homestream Detection by Pink and Sockeye Salmon in a Regulated River System	D. Dixon; Alden Fish-Friendly Hydropower Turbine Development Status	
4:30	PANEL (N. Utrup; J. Fossum; D. Caneff; R. Alsberg; R. Elliott; M. Donofrio; K. Kruger; J. Waldrip; C. Tomichek)	C. Middleton; Effects of daily varying natal olfactory cues on Pacific salmon migration success in a river regulated by hydropower generation	M. Ahmann; Employing the TSP Design Process to Design Replacement Turbine Runners for the Ice Harbor Lock and Dam	
4:50		D. Nyqvist; Downstream Migration of Landlocked Atlantic Salmon Kelts and smolts in the River Klarälven, Sweden	L. Hanna; Helix Design for Downstream Fish Passage	
5:10	Intermission			
5:30	Poster Session and Social (University Rooms A/B/C/D)			
6:00	Banquet – Cash Bar Begins (Madison/Wisconsin Ballroom)			
6:30	Banquet - Dinner (Madison/Wisconsin Ballroom)			

Wednesday – June 11th (Morning Session)

Time	Track A (Capital Ballroom A)	Track B (Capital Ballroom B)	Track C (Conference Room I)	Track D (Conference Room II)
7:45	Registration and Breakfast			
8:15	Introductions (Madison/Wisconsin Ballroom)			
8:30	“Decisions for the Dammed in an Uncertain World” Rob McLaughlin, University of Guelph: Ontario, Canada (Madison/Wisconsin Ballroom)			
9:15	Paul Kemp, University of Southampton: Southampton, United Kingdom (Madison/Wisconsin Ballroom)			
10:00	Break			
	Session A7: Movements of Native and Invasive Fishes in the Midwest Implications and Considerations of Behavioral Deterrent Systems I: B. Ickes	Session B7: Connectivity: M. Diebel	Session C7: Wisconsin Fish Passage and Habitat Restoration: A. Struck	
10:20	B. Ickes; The situational context for fish passage issues in the Upper Mississippi River System	K. Moody; Ecological Structures for the Waller Creek Tunnel Project	A. Struck; Ozaukee Fish Passage Program - Making Connections Across Our Watersheds: Active restoration of riparian migratory corridors in the Lake Michigan Basin in Ozaukee County	
10:40	G. Sass; The effects of visual and acoustic deterrents to prevent the upstream movement of Asian carps	R. Schneider; Re-plumbing roadside ditch networks to reduce flooding, dry-outs and water pollution for healthier streams	C. Nenn; Advancing Fish Passage in the Menomonee River Watershed	
11:00	R. Koth; Lock and Dam #1, Asian carp barrier alternatives analysis; the known unknowns	S. Railsback; Complex effects of partial barriers on a simulated watershed trout population	D. Fowler; Thinking Outside the Box Culvert, Floodplain Management and Urban Stream Rehabilitation	
11:20	C. Chizinski (P. Sorensen); Differences in the spring time upstream migrations of invasive common carp (Cyprinus carpio) and native northern pike (Esox luci	E. Oborny (T. Osting); Stream and vegetative habitat restoration in a spring-fed stream to augment endangered species habitat	B. Wentzel; Habitat Enhancement in Conjunction with Fish Passage in Southeastern Wisconsin	
11:40	D. Zielinski; Engineering a bubble curtain deterrent system to deter the movement of common carp through shallow streams	R. Voicu; Presentation a technical solution that can achieve longitudinal connectivity (upstream-downstream) of the Crișul Repede River	D. Marshall; Oxbows and Sloughs: Wisconsin’s Forgotten Lakes	
12:00	Lunch			

Wednesday – June 11th (Afternoon Session)

Time	Track A (Capital Ballroom A)	Track B (Capital Ballroom B)	Track C (Conference Room I)	Track D (Conference Room II)
	Session A8: Movements of Native and Invasive Fishes in the Midwest Implications and Considerations of Behavioral Deterrent Systems II: D. Zelinski	Session B8: Barrier Removal: J. Rathbun	Session C8: Climate & Temperature Impacts on Fish Passage: N. Gillespie	
1:30	J. Gross; Effects of a sweeping low frequency pulsed DC electrical field on Asian carp behavior in a zero flow environment	A. Singler; Mapping Dam Removal Success: Lessons from United States Dam Removals	M. Lang (D. Crowder); A Sensitivity Analysis of How Regional Climate Differences and Fish Passage Criteria Affect Steelhead Migration Opportunity	
1:50	M. Gaikowski; Response of fishes to the operation of water guns	L. Wildman; The Biggest Barriers to Barrier Removal	J. Lyons; Conserving riverine lake sturgeon in Wisconsin under a warming climate: the importance of connectivity	
2:10	A. Murphy; Impaired waterbody restoration utilizing electric fish barrier technology to exclude invasive carp	T. MacDonald; Restoring Minnesota Falls after a Century of Submergence	M. Weinhold; Using a Climate Change Vulnerability Assessment to Prioritize Aquatic Organism Passage Projects	
2:30	C. Dennis III; Use of carbon dioxide as a non-physical barrier to deter fish movement	L. Hollingsworth-Segedy; Opportunistic vs Strategy: Raising the bar for stream barrier removals in western PA	C. Caudill; Indirect Effects of Impoundment on Migrating Fish: Temperature Gradients in Fish Ladders Slow Dam Passage by Adult Chinook Salmon	
2:50	Conference Sessions End			
3:15 to 5:15	Goal-Setting Workshop: Establishing Regional Goals for Connectivity Restoration Based on Migratory Fish Populations* (Conference Room II)			

Thursday – June 12th

8:00	Tour Departs for the Milwaukee River Watershed and Lake Michigan Basin *
5:30	Tour Returns to Madison / End of All FP2014 Related Activities

* MUST REGISTER SEPARATELY FOR EVENT, ADDITIONAL FEE MAY APPLY