

KANSAS CITY 2016



AMERICAN FISHERIES SOCIETY

146TH

ANNUAL MEETING, AUGUST 21-25

WWW.2016.FISHERIES.ORG

WELCOME TO KANSAS CITY!



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- Locate sessions and exhibitors on the host venue maps
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For All Other Device Types (including BlackBerry, Windows, and all other web browser-enabled devices): While on your smartphone, point your mobile browser to **m.core-apps.com/afs_2016** to be directed to the proper download version for your device.

Platform Compatibility: Android v4x+ and iOS v7x+

Should you have any questions, please contact support@core-apps.com



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WELCOME TO KANSAS CITY 2016!



Welcome to Kansas City and the 146th Annual Meeting of the American Fisheries Society. Our state's nickname is the Show Me State and is usually traced to an 1899 speech by Willard D. Vandiver, a Missouri Congressman who said "I come from a country that raises corn, cotton, cockleburs, and Democrats. I'm from Missouri, and you've got to show me." We still raise corn and cotton in "good" years, cockleburs in "bad" years, and having a major election in 2016 there seems to be a surplus production of politicians from every party this year. So on behalf of the planning committee for the 146th Annual Meeting of AFS, we hope to "Show You" something that is informative and educational, as well as a great time. Finally, if you happen to see one of the meeting sponsors or a member of the planning committee, please "Show Them" your appreciation. This event would not have happened without their support and efforts.

Vince Travnichek
2016 AFS General Meeting Chair



AFS PRESIDENT'S WELCOME



I am honored to welcome you to the 146th annual meeting of the American Fisheries Society. The only other annual AFS meeting held in Kansas City was 50 years ago in 1966. So please keep this golden anniversary spirit in mind as you enjoy this fine city and the outstanding networking events expertly arranged by the local organizing committees.

The three invited plenary speakers will be focusing on the meeting theme “Fisheries Conservation and Management: Making Connections and Building Partnerships.” Dr. Hal Schramm, Ms. Danielle Brigida, and Dr. Zeb Hogan will each touch on ways to communicate fisheries information to a variety of audiences. This meeting will feature separate short plenary sessions on each of the first three mornings with these speakers and awards presentations. Feel free to let me, other AFS officers, or AFS staff know your thoughts on this format versus the traditional single plenary session.

Please refer to the Schedule at a Glance (p.12) to plan your week ahead. There are a wide variety of continuing education classes and Section meetings that allow a deep dive into your favorite discipline. After the plenary sessions, there are 32 symposia and a total of over 700 technical presentations on fisheries science from high elevation streams to offshore marine waters around the globe. There are about 100 scientific posters set up during the week and an opportunity to chat with their authors at the trade show and poster social. And by all means, visit with the many vendors and organizations at the booths in the trade show during the week. Finally, please consider attending the business meeting which will feature many more AFS awards presentations.

So take full advantage of the terrific venue, enriching fisheries science sessions, and fabulous social networking events during your time in Kansas City. I sincerely hope that this meeting is enjoyable and allows you to make connections and build partnerships for your fisheries work ahead.

Ron Essig
American Fisheries Society President

AFS 2016 TEAM

AFS President

Ron Essig

General Meeting Chair

Vince Travnichek

Program Co-Chairs

Quinton Phelps

Sara Tripp

North Central Division President

Melissa Wuellner

Missouri Chapter President

Greg Pitchford

PROGRAM

Quinton Phelps (Co-Chair)

Sara Tripp (Co-Chair)

Abigail Archer (Co-Chair)

Heather Garrison

Craig Paukert

Cari-Ann Hayer

Jacob Westhoff

Paul Michaletz

Jodi Whittier

Zach Ford

Andy Turner

ARRANGEMENTS

Travis Moore (Chair)

Denise Spencer (Staff)

Daniel Cassidy (Staff)

Megan Halford

Denise Otto

Jake Allman

Michelle Dalbey

Jake Colehour

Greg Pitchford

Jerry Wiechman

Jennifer Campbell

COMMUNICATIONS

Kat Lackman (Chair)

Amy Meier

Ange Corson

Alex Prentice

Paul Spurgeon

Eric Rahm

Blake Stephens

John Frantz

Kerrie Delaney

April Perry

Yvonne Heerlein

Scott Ryan

NETWORKING

Wes Swee (Chair)

Kyle Winders

Kasey Whiteman

Mark Miller

Joe McMullen

Darby Niswonger

Tom Whelan

James Civello

Ben Havens

Tory Mason

Mike Allen

Bob Distefano

Jen Gironde

Mike Bayless

Shane Bush

Clint Hale

Paul Cieslewicz

MASTER SCHEDULER

Kathi Moore

PRINTED PROGRAM

Kurt West (Staff)

TRADESHOW

Shawn Johnston (Staff)

AFS STAFF

Douglas Austen (Executive
Director)

Beth Beard

Thomas Bigford

Daniel Cassidy

Katrina Dunn

Juanita Flick

Sarah Harrison

Laura Hendee

Mohammed Hossain

Shawn Johnston

Debby Lehman

Aaron Lerner

Jackie Machado

Jessica Mosley

Cynthia Oboh

Taylor Pool

Eva Przygodzki

Jasmine Sewell

Denise Spencer

Kurt West

Howard Williams

Martha Wilson

GETTING STARTED

REGISTRATION

Registration kiosks will be located in the **Terrace** on the Mezzanine Level of the **Sheraton Hotel** from Saturday through Thursday. Hours for registration are:

Saturday, August 20	12:00 PM – 6:00 PM
Sunday, August 21	10:00 AM – 6:30 PM
Monday, August 22	7:00 AM – 6:00 PM
Tuesday, August 23	7:00 AM – 6:00 PM
Wednesday, August 24	7:00 AM – 5:00 PM
Thursday, August 25	7:30 AM – 12:00 PM

Registration participants are required to wear their badges for all conference events. If you lose your badge, please return to Registration to receive a new one.

INFORMATION BOOTH

If you have questions about the meeting, or Kansas City in general, the Information Booth is your source. The Information Booth will be located near Registration in the Terrace, Mezzanine Level of the Sheraton Hotel.

INTERNET ACCESS

Internet Access is available in the Convention Center (Exhibit Hall A and B) and in your hotel room free of charge.

AFS has contracted with the Conference Exchange (CONFEX) for program and scheduling support. CONFEX provides and maintains a complete searchable program listing on the meeting website (2016.fisheries.org). Because of the size of the program, and in an effort to minimize our environmental impact, only the scheduling information is provided in this program guide. Abstracts for all oral presentations and posters and the full list of authors are included online as well as on the AFS Annual Meetings mobile app. The Program Committee will update the program listing throughout the meeting as changes occur.

Our attendees can also use the AFS Annual Meetings mobile app by Core-apps to view and schedule all other meeting activities on their laptops, tablets, or Apple and Android mobile phones. From the mobile app you

can browse and select the workshops, meetings, and events that you plan to attend. The AFS Annual Meetings mobile app can be downloaded to your phone from Google Play or the Apple Store; simply search for “AFS Annual Meetings” to find the app. Once downloaded, you will not need Internet service to access the app.

INSTRUCTIONS FOR PRESENTERS AND MODERATORS

Presenters should be aware that talks are to last 15 minutes, with the remaining 5 minutes allocated to questions and for room changes (total of 20 minutes).

Moderators are responsible for ensuring that talks start and end on time. Detailed instructions for moderators will be posted on each podium.

Computers and projectors are provided in each presentation room. Each room is equipped with a podium, LCD Projector (1024x768), Laptop with pre-loaded oral presentation files, Projection Screen, Laser Pointer, Podium Microphone, and PCDI for Computer Audio. Information about room size can be found on the Sheraton Kansas City and Crown Center website: <http://www.sheratonkansascityhotel.com/floor-plans>

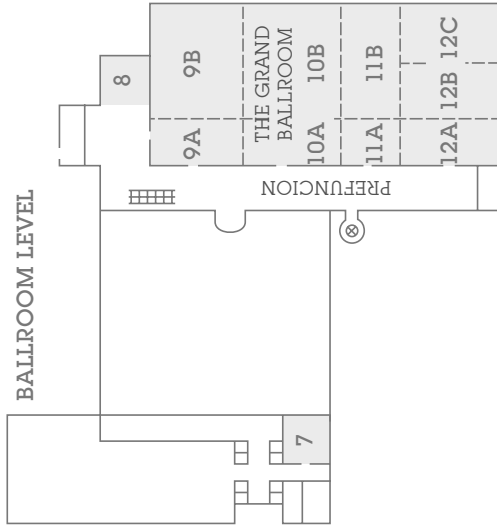
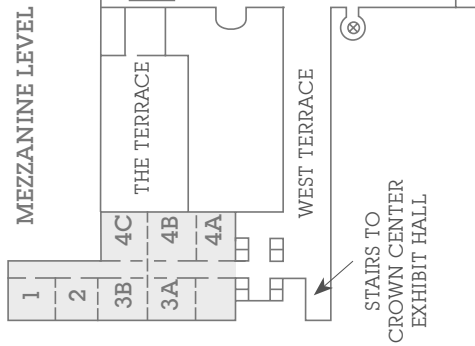
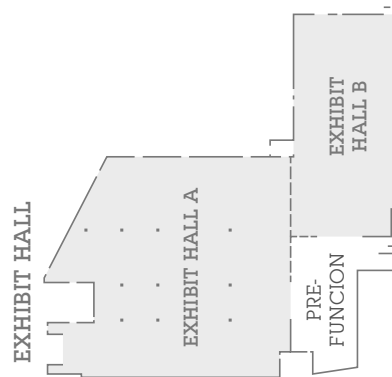
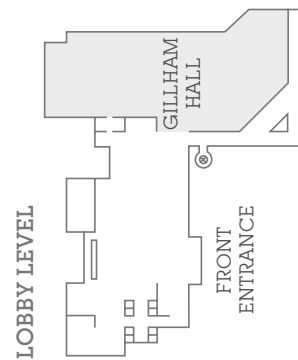
Presentations are saved on computers that are set up in each presentation room in the early morning and remain the entire day there: this means all presentations must be loaded no later than the day before your talk. **You cannot use your personal computer for presentations.**

TRANSPORTATION AROUND KANSAS CITY

RideKC Streetcar is free public transportation to various venues utilized by the conference. For more information about RideKC Streetcar: <http://kcstreetcar.org/about-streetcar/>



SHERATON FLOOR PLAN



FUNCTION SPACE

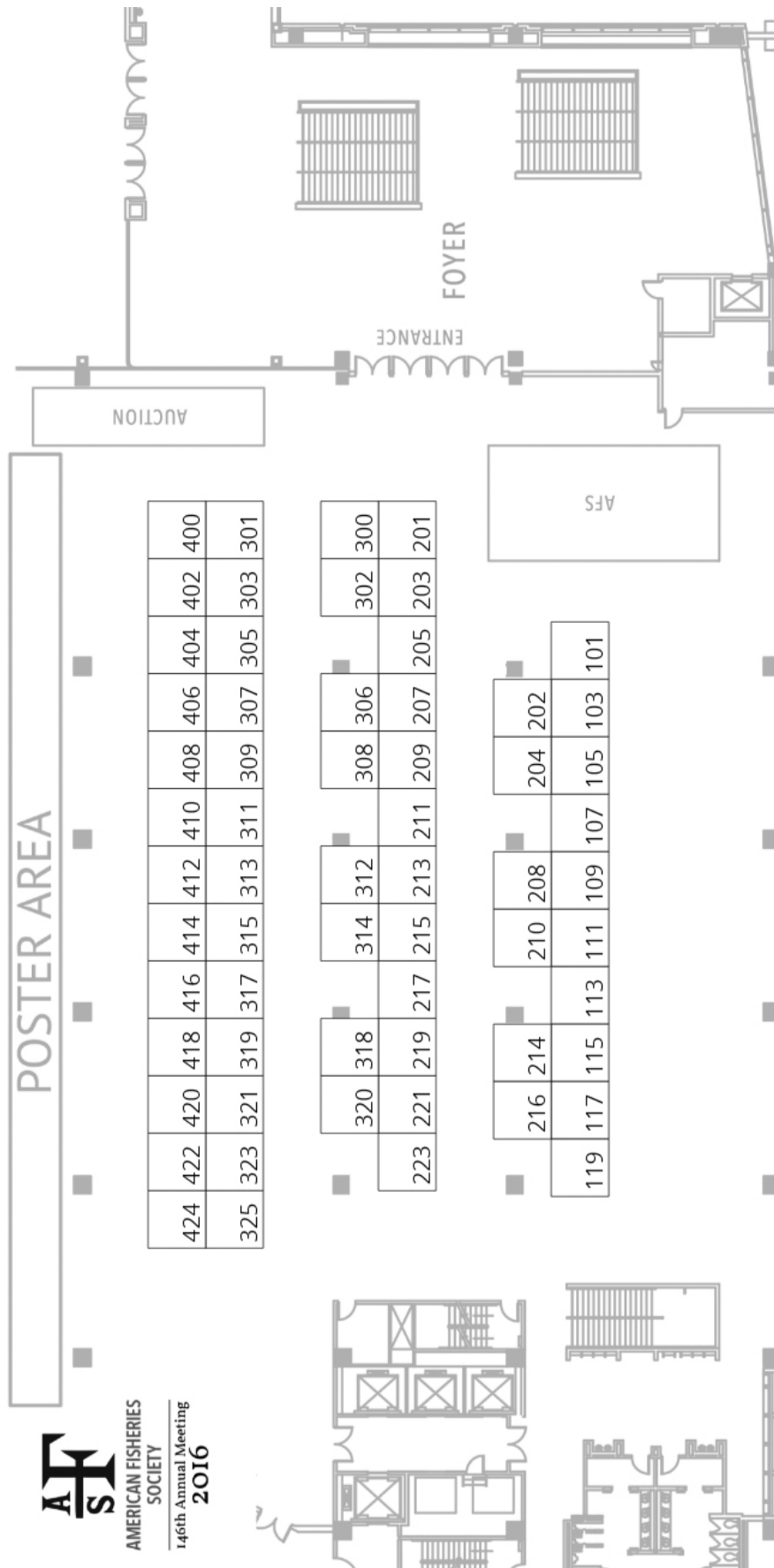
- 1 NORTHTRUP
- 2 FREMONT
- 3 BENTON
- 4 VAN HORN

- 5 CHOUTEAU
- 6 EMPIRE
- 7 BOARDROOM
- 8 THE GRAND OFFICE

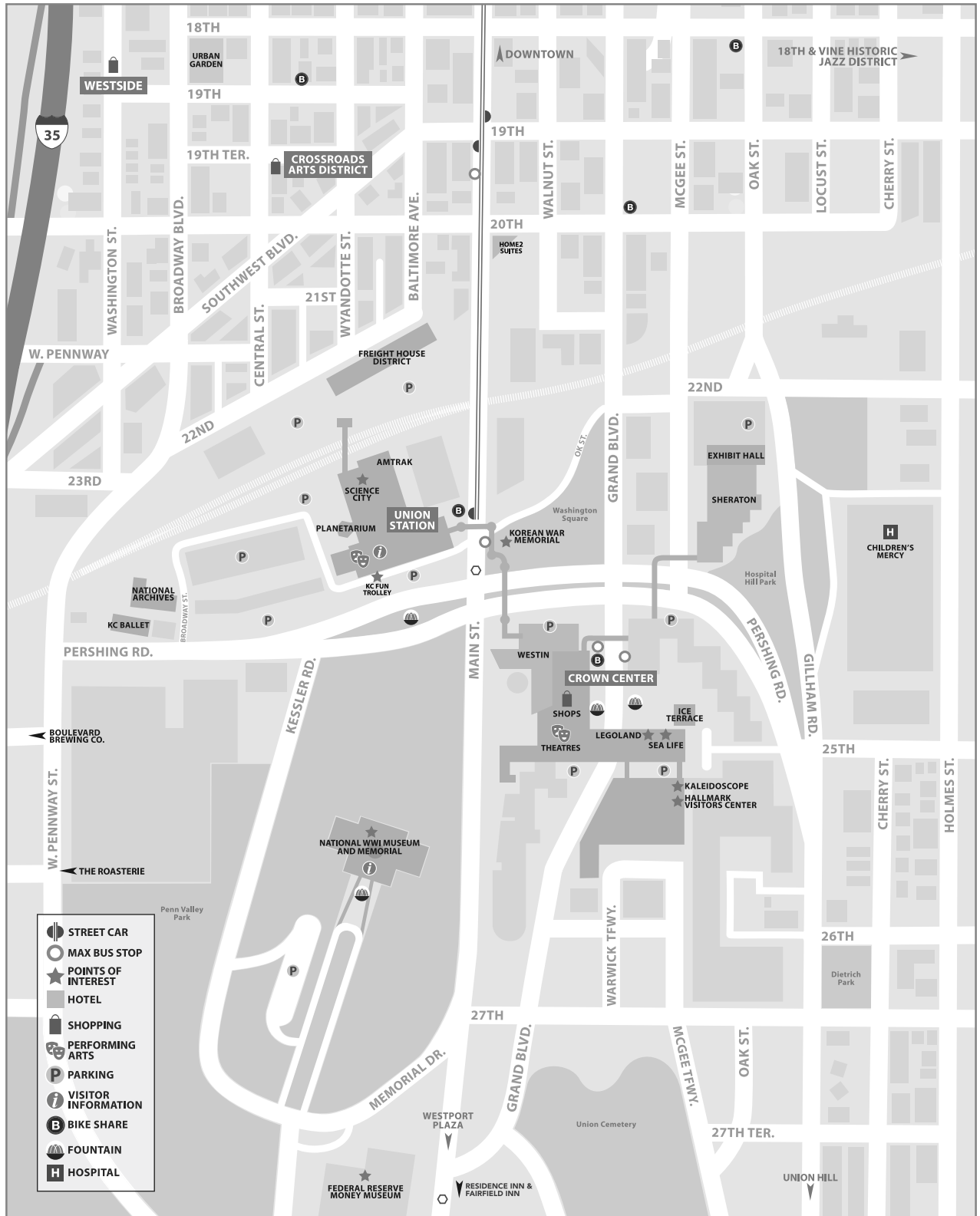
- 9 ATLANTA
- 10 NEW YORK
- 11 SAN FRANCISCO
- 12 CHICAGO

MAPS

EXHIBIT/TRADESHOW MAP



CROSSROADS/CROWN CENTER



VISIT KC • 2015

SCHEDULE AT A GLANCE

Last updated July 20, 2016

See <http://2016.fisheries.org/events-2/> or check the mobile meeting app for the most current schedule.

All events take place in the Sheraton Crown Center unless otherwise noted.

Friday August 19

<i>Time</i>	<i>Event</i>	<i>Room</i>
8:00 AM 12:00 PM	AFS Officers Meeting (Invitation Only)	Presidential Suite
1:00 PM 5:00 PM	Management Committee Meeting	Fremont

Saturday August 20

<i>Time</i>	<i>Event</i>	<i>Room</i>
7:30 AM 5:00 PM	AFS Governing Board Meeting	Chouteau A/B
8:00 AM 12:00 PM	Continuing Education - Electrofishing I: Power-Based Standardization in Electrofishing	Gillham Hall
8:00 AM 12:00 PM	Continuing Education - NEW! Imaging Technologies in Fisheries: Side Scan Sonar in Management and Research	Chicago B
8:00 AM 5:00 PM	Continuing Education - Age and Growth Analysis with R	Chicago A
8:00 AM 5:00 PM	Continuing Education - Bayesian I: Intro to Bayesian Inference Using Gibbs Sampling (BUGS) for Fish Biologists	Chicago C
8:00 AM 5:00 PM	Continuing Education - Beginning and Intermediate GIS for Fisheries Scientists	University of Central Missouri (shuttle)
12:00 PM 6:00 PM	Registration and Information	The Terrace
1:00 PM 5:00 PM	Continuing Education - Electrofishing II: Electrofishing Equipment Operations and Troubleshooting	Gillham Hall
5:00 PM 6:00 PM	AFS Governing Board Reception (Invitation Only)	Chouteau A/B

Sunday August 21

<i>Time</i>		<i>Event</i>	<i>Room</i>
8:00 AM	12:00 PM	Continuing Education - Human Dimensions and Conflict Resolution in Fisheries	Chicago B
8:00 AM	12:00 PM	Continuing Education - Leadership at All Levels in AFS (FREE)	New York B
8:00 AM	5:00 PM	Continuing Education - Bayesian II: Intermediate Bayesian Inference Using Gibbs Sampling (BUGS) for Fish Biologists	Chicago C
8:00 AM	5:00 PM	Continuing Education - Bioenergetics	Chicago A
10:00 AM	6:00 PM	Speaker Check-in and AV Loading	Van Horn A
10:00 AM	6:30 PM	Registration and Information	The Terrace
12:00 AM	2:30 PM	Journal Editors Luncheon (Invitation Only)	Fremont
1:00 PM	2:30 PM	Fisheries Administration Section Meeting	Chouteau A/B
1:00 PM	5:00 PM	Continuing Education NEW! - Fisheries Information Network System (FINS) Application and Analysis Tools	Chicago B
1:00 PM	5:00 PM	Continuing Education - Scientific Publishing and Communications (FREE)	New York B
2:00 PM	5:00 PM	Fish Culture Section Meeting	Van Horn B
2:00 PM	6:00 PM	Tradeshow Exhibit Move-in	Exhibit Hall A
2:30 PM	3:30 PM	Fisheries Administration and Fisheries Management Sections Joint Meeting	Chouteau A/B
3:30 PM	5:00 PM	Fisheries Management Section Meeting	Chouteau A/B
3:30 PM	6:00 PM	Mississippi Interstate Cooperative Resource Association (MICRA) Meeting	Van Horn C
4:00 PM	5:00 PM	Imperiled Aquatic Species Section Meeting	Empire B
4:00 PM	6:00 PM	Estuaries and Marine Sections Joint Meeting	Benton A
4:00 PM	6:00 PM	Poster Set-up	Exhibit Hall A
5:00 PM	7:00 PM	Education Section Meeting	Empire A

Sunday August 21

<i>Time</i>	<i>Event</i>	<i>Room</i>
6:00 PM 9:30 PM	Welcome Networking Event and Aquarium	Crown Center Square and Sea Life Aquarium

Monday August 22

<i>Time</i>	<i>Event</i>	<i>Room</i>
7:00 AM 6:00 PM	Registration and Information	The Terrace
7:00 AM 6:00 PM	Speaker Check-in and AV Loading	Van Horn A
7:00 AM 8:00 AM	Plenary Speakers Breakfast (Invitation Only)	Fremont
7:30 AM 9:00 AM	Tradeshow Exhibit Move-in / Poster Set-up	Exhibit Hall A
8:00 AM 9:20 AM	Plenary (Dr. Hal Schramm) and The Carl R. Sullivan Fishery Conservation Award Presentation	Exhibit Hall B
9:00 AM 8:30 PM	Tradeshow Open and Cyber Café	Exhibit Hall A
9:40 AM 11:40 AM	Genetics (Contributed Papers)	Chicago C
9:40 AM 2:20 PM	Fisheries Management from the Great Lakes to the Gulf: Sea Grant's Role in Research, Outreach and Building Partnerships along the Mississippi River (Symposium)	Van Horn B
9:40 AM 3:00 PM	Sturgeon and Paddlefish (Contributed Papers)	Chicago B
9:40 AM 4:00 PM	Management Strategy Evaluation, Decision Analysis, and Ensemble Modeling: Tools for Addressing Assessment and Management Uncertainty (Symposium)	Van Horn C
9:40 AM 4:40 PM	Pop-Up Satellite Tagging - Challenges and Solutions (Symposium)	Empire B
9:40 AM 4:40 PM	Documented and Documenting the Effects of Climate Change on Inland Fish and Fisheries (Symposium)	Empire C
9:40 AM 5:00 PM	Best Student Paper and Poster (Symposium)	Chouteau A
9:40 AM 5:00 PM	Ecological Flow Science and Policy: Protecting Stream Systems Today; Preparing for Tomorrow (Symposium)	New York A

Monday August 22

<i>Time</i>		<i>Event</i>	<i>Room</i>
9:40 AM	5:00 PM	Effects of Diploid Grass Carp and State Grass Carp Stocking Policies on Aquatic Ecosystems (Symposium)	New York B
9:40 AM	5:00 PM	Angling for Dinosaurs: Status and Future Study of the Ecology, Conservation and Management of Ancient Fishes (Symposium)	Chicago A
9:40 AM	5:00 PM	Fish Research and Conservation in the “Scapes”: Needs, Progress, Challenges, and Opportunities (Symposium)	Empire A
9:40 AM	5:00 PM	Reservoir Fisheries Habitat Restoration: Innovative Techniques to Restore Habitat in our Nation’s Impoundments (Symposium)	Atlanta
9:40 AM	5:00 PM	Cooperative Fisheries Research in Marine and Freshwater Systems: From Policy to Practice (Symposium)	Chouteau B
12:00 PM	1:00 PM	Socioeconomics Section Meeting	Boardroom
12:00 PM	2:00 PM	Equal Opportunities Section Meeting and Luncheon (Invitation Only)	Benton A/B
12:30 PM	2:30 PM	Plenary Speakers & Award Recipients Luncheon (Invitation Only)	Exhibit Hall B
1:00 PM	5:00 PM	Global Importance and Threats to Floodplain Fisheries: Potential Mitigation Measures to Reconnect Floodplains, Including Synergistic Benefits of Working with other Water Resource Sectors (Symposium)	Chicago C
2:20 PM	5:00 PM	Translating Essential Fish Habitat (EFH) Science into Fishery Management Decisions (Symposium)	Van Horn B
3:00 PM	5:00 PM	Fisheries Information and Technology Section Meeting	Benton B
3:00 PM	5:00 PM	Missouri Chapter of AFS EXCOM Meeting	TBD
3:20 PM	5:00 PM	Sampling Strategies (Contributed Papers)	Chicago B
3:30 PM	5:30 PM	Journal Editorial Board Meeting	Fremont
4:00 PM	5:00 PM	Water Quality Section Meeting	Benton A

Monday August 22

<i>Time</i>		<i>Event</i>	<i>Room</i>
4:00 PM	5:00 PM	Hutton Oversight Committee Meeting	Boardroom
5:30 PM	6:30 PM	Genetics Section Meeting	Chouteau A
5:30 PM	7:00 PM	Michigan State Fisheries & Wildlife Alumni and Friends Social	Empire A
5:30 PM	7:30 PM	Introduced Fishes Section Meeting	Van Horn C
6:00 PM	8:30 PM	Tradeshow and Poster Networking Event	Exhibit Hall A

Tuesday August 23

<i>Time</i>		<i>Event</i>	<i>Room</i>
7:00 AM	6:00 PM	Registration and Information	The Terrace
7:00 AM	6:00 PM	Speaker Check-in and AV Loading	Van Horn A
8:00 AM	9:20 AM	Plenary (Danielle Brigida) and Meritorious Service, Excellence in Fisheries Education, 2016 Fellows, and Emmeline Moore Prize Presentations	Exhibit Hall B
9:00 AM	6:00 PM	Tradeshow Open and Cyber Café	Exhibit Hall B
9:30 AM	11:30 AM	AFS—Future of the Nation's Fisheries: Recommendations for Next President	Benton A
9:30 AM	12:30 PM	Missouri Department of Conservation Walleye Planning Team Meeting	Boardroom
9:30 AM	4:00 PM	Wild Jobs Café	Exhibit Hall B
9:30 AM	5:00 PM	Mississippi Interstate Cooperative Resource Association (MICRA) Meeting	Benton B
9:40 AM	11:40 AM	Stephen Weithman: His Life Honored Through the Student Award (Symposium)	Chicago B
9:40 AM	1:00 PM	Actions to Increase the Engagement of Underrepresented Minorities in Fisheries and Aquatic Sciences (Symposium)	New York A

Tuesday August 23

<i>Time</i>		<i>Event</i>	<i>Room</i>
9:40 AM	1:40 PM	Cooperative Fisheries Research in Marine and Freshwater Systems: From Policy to Practice (Symposium)	Chouteau B
9:40 AM	2:20 PM	Reservoir Fisheries Habitat Restoration: Innovative Techniques to Restore Habitat in our Nation's Impoundments (Symposium)	Atlanta
9:40 AM	4:00 PM	Hatchery Fish Biologist... A Career for the Future (Symposium)	Van Horn B
9:40 AM	5:00 PM	Fisheries Science in 140 Characters: The Role of Social Media in Our Science (Symposium)	Chouteau A
9:40 AM	5:00 PM	Interactions Between Hydrology and Nonnative Aquatic Species (Symposium)	Empire C
9:40 AM	5:00 PM	Freshwater Fisheries Management (Contributed Papers)	Chicago A
9:40 AM	5:00 PM	Movement and Aquatic Organism Passage (Contributed Papers)	Chicago C
9:40 AM	5:00 PM	Managing Centrarchid Fisheries in Rivers and Streams (Symposium)	New York B
9:40 AM	5:00 PM	An Examination into Influencing the Future of Angling Participation to Sustain Conservation Support (Symposium)	Empire A
9:40 AM	5:00 PM	Release and Discard Mortality Estimation: Lessons from Freshwater and Saltwater Environments (Symposium)	Empire B
12:00 PM	2:00 PM	Best Student Paper and Poster Judges Luncheon (Invitation Only)	Van Horn C
12:00 PM	2:00 PM	World Council of Fisheries Societies Luncheon (Invitation Only)	Fremont
1:00 PM	4:40 PM	Blue Catfish: Lessons from a Large Riverine Opportunistic Catfish (Symposium)	Chicago B
1:40 PM	5:00 PM	Inland Drivers of Coastal Hypoxia (Symposium)	Chouteau B
2:30 PM	3:30 PM	AFS Book Editorial Advisory Board Meeting	Boardroom

Tuesday August 23

<i>Time</i>		<i>Event</i>	<i>Room</i>
3:00 PM	5:00 PM	Biologically-Based Design and Evaluation Initiative for Hydropower	Benton A
3:20 PM	5:00 PM	General Fisheries (Contributed Papers)	New York A
4:00 PM	5:00 PM	Student Speed Mentoring	Exhibit Hall B
4:00 PM	6:00 PM	Fisheries Editorial Reception (Invitation Only)	Presidential Suite
5:00 PM	6:30 PM	International Fisheries Section Meeting	Chouteau B
5:00 PM	7:00 PM	VEMCO Acoustic Telemetry Demonstration and Social	Atlanta A
5:30 PM	6:30 PM	Fish Habitat Section Meeting	Johnny's Tavern
6:00 PM	9:00 PM	Student Networking Event—Cowboy and Cowgirl Up	PBR Big Sky – KC Power & Light District

Wednesday August 24

<i>Time</i>		<i>Event</i>	<i>Room</i>
7:00 AM	5:00 PM	Registration and Information	The Terrace
7:00 AM	5:00 PM	Speaker Check-in and AV Loading	Van Horn A
7:00 AM	9:00 AM	Spawning Run and Carcass Crawl	Berkley Riverfront Park and Heritage Trail
8:00 AM	9:20 AM	Plenary (Dr. Zeb Hogan) and William E Ricker Resource Conservation Award, President's Fishery Conservation Awards (Member and Non-Member), and Award of Excellence Presentations	Exhibit Hall B
9:00 AM	2:00 PM	Tradeshow Open and Cyber Café	Exhibit Hall A
9:30 AM	11:30 AM	AFS—Future Direction for Resource Policy Efforts	Benton A
9:40 AM	11:40 AM	Fish and Cooling Water Intakes (Contributed Papers)	Van Horn B
9:40 AM	11:40 AM	Release and Discard Mortality Estimation: Lessons from Freshwater and Saltwater Environments (Symposium)	Empire B
9:40 AM	2:00 PM	Movement and Aquatic Organism Passage (Contributed Papers)	Chicago C

Wednesday August 24

<i>Time</i>		<i>Event</i>	<i>Room</i>
9:40 AM	3:00 PM	Coupled Interactions between Natural and Human Systems—On the Interplay between Aquatic Ecosystem Health, Human Behavior and Decision-Making, and Aquatic Invasive Species (Symposium)	Atlanta
9:40 AM	3:00 PM	Managing Riverscapes: Conservation Tools to Assess and Improve Stream Fisheries (Symposium)	Chouteau A
9:40 AM	3:00 PM	Salmonids (Contributed Papers)	Empire C
9:40 AM	3:00 PM	Freshwater Fisheries Management (Contributed Papers)	Chicago A
9:40 AM	3:00 PM	Managing Centrarchid Fisheries in Rivers and Streams (Symposium)	New York B
9:40 AM	3:00 PM	An Examination into Influencing the Future of Angling Participation to Sustain Conservation Support (Symposium)	Empire A
9:40 AM	3:00 PM	Effects of Drought on Aquatic Resources, Fisheries Management, and Mitigation Strategies (Symposium)	Chicago B
9:40 AM	3:00 PM	Preparing Fisheries Professionals with Depth and Breadth (T-Shaped Professionals) (Symposium)	New York A
9:40 AM	3:00 PM	Ecology and Life History (Contributed Papers)	Chouteau B
10:00 AM	12:00 PM	AFS Chapter Presidents Meeting	Benton B
11:40 AM	1:00 PM	LOTEK Luncheon—New Technology and Product Overview (Invitation Only)	Van Horn C
12:00 PM	2:00 PM	AFS Past-Presidents Luncheon (Invitation Only)	Fremont
1:00 PM	3:00 PM	General Fisheries (Contributed Papers)	Empire B
2:00 PM	3:30 PM	Tradeshow and Poster Takedown	Exhibit Hall A
3:30 PM	5:30 PM	AFS Business Meeting	Exhibit Hall B
6:00 PM	10:00 PM	The Grand Networking Event	Union Station

Thursday August 25

<i>Time</i>		<i>Event</i>	<i>Room</i>
7:00 AM	8:30 AM	Incoming AFS Governing Board Breakfast (Invitation Only)	Fremont
7:30 AM	12:00 PM	Registration and Information	The Terrace
7:30 AM	12:00 PM	Speaker Check-in and AV Loading	Van Horn A
7:00 AM	8:30 AM	Incoming AFS Governing Board Breakfast (Invitation Only)	
8:00 AM	11:00 AM	River Restoration (Contributed Papers)	Van Horn B
8:00 AM	11:40 AM	Carp Ecology and Management (Contributed Papers)	Chouteau B
8:00 AM	11:40 AM	Managing Centrarchid Fisheries in Rivers and Streams (Symposium)	New York B
8:00 AM	1:40 PM	Fish Conservation (Contributed Papers)	Atlanta
8:00 AM	2:00 PM	Modeling and Statistics (Contributed Papers)	New York A
8:00 AM	4:20 PM	Protecting Fish at Cooling Water Intakes: New Rules and Science-based Solutions (Symposium)	Chouteau A
8:00 AM	4:20 PM	Applications of Methods and Techniques and Collaborations in Managing and Conserving Large River Basin Fishery Resources and Environment (Symposium)	Empire B
8:00 AM	4:20 PM	Salmonids (Contributed Papers)	Empire C
8:00 AM	4:40 PM	Theory and Application of Behavioral Guidance Technologies to Deter Invasive and Native Fish (Symposium)	Chicago C
8:00 AM	5:00 PM	Understanding Pallid Sturgeon Population Dynamics and Stressors in the Missouri and Mississippi Rivers (Symposium)	Chicago A
8:00 AM	5:00 PM	Effects of Drought on Aquatic Resources, Fisheries Management, and Mitigation Strategies (Symposium)	Chicago B
8:00 AM	5:00 PM	An Examination into Influencing the Future of Angling Participation to Sustain Conservation Support (Symposium)	Empire A

Thursday August 25

<i>Time</i>		<i>Event</i>	<i>Room</i>
12:00 PM	2:00 PM	Kansas City—Tampa Hand-off Luncheon (Invitation Only)	TBD
1:00 PM	5:00 PM	Fish Culture (Contributed Papers)	Van Horn B
1:00 PM	5:00 PM	Marine Fisheries Management (Contributed Papers)	New York B
1:00 PM	5:00 PM	Ecology and Life History (Contributed Papers)	Chouteau B
2:00 PM	5:00 PM	What Data are Needed to Ensure Freshwater Mollusk Conservation into the Future? (Symposium)	Atlanta
3:20 PM	5:00 PM	Preparing Fisheries Professionals with Depth and Breadth (T-Shaped Professionals) (Symposium)	New York A

PLENARY SESSIONS

Exhibit Hall B
8:00 AM – 9:20 AM

Monday August 22

- 8:00 Opening remarks
- 8:05 Welcome and Introductions – Ron Essig, AFS President
- 8:30 *We Only Manage What has Value: Establishing Value for Fisheries Resources*
Dr. Hal Schramm, Jr.
- 9:00 Carl R. Sullivan Fishery Conservation Award presentation – Jesse Trushenski, AFS Second Vice-President
- 9:10 Carl R. Sullivan Fishery Conservation Award recipient comments
- 9:20 Close session and Break

Tuesday August 23

- 8:00 Opening remarks
- 8:10 *Using Social Media and Technology to Inspire and Educate*
Danielle Brigida
- 8:40 Awards presentations – Steve McMullin, AFS First Vice-President
 - Meritorious Service Award
 - Excellence in Fisheries Education Award
 - 2016 AFS Fellows
- 9:00 Emmeline Moore Prize presentation – Steve McMullin, AFS First Vice-President
- 9:10 Emmeline Moore Prize recipient comments
- 9:20 Close Session and Break

Wednesday August 24

- 8:00 Opening remarks
- 8:10 *Using Science and Storytelling to Create a Global Voice for Freshwater Fish Conservation*
Dr. Zeb Hogan
- 8:40 Awards presentations – Joe Margraf, AFS President-Elect
 - William E. Ricker Resource Conservation Award
 - President's Fishery Conservation Award – Member Category
 - President's Fishery Conservation Award – Non Member Category
- 9:00 Award of Excellence presentation – Joe Margraf, AFS President-Elect
- 9:10 Award of Excellence recipient comments
- 9:20 Close Session and Break

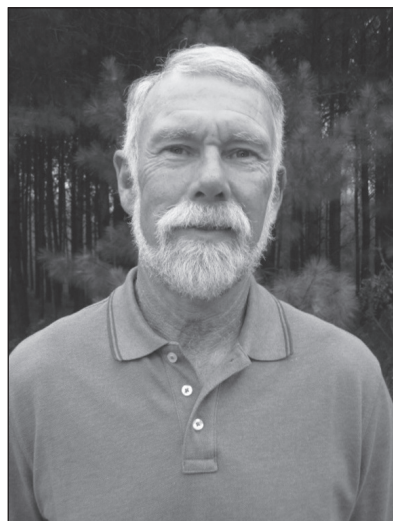
PLENARY SPEAKERS

Hal Schramm, Jr.

*Mississippi State University and
Mississippi Cooperative Fish and Wildlife Research Unit*

We Only Manage What Has Value: Establishing Value for Fisheries Resources

Hal Schramm is leader of the Mississippi Cooperative Fish and Wildlife Research Unit and professor in the Department of Wildlife, Fisheries, and Aquaculture at Mississippi State University. The Mississippi River provides a diverse and abundant fishery resource, but the contemporary conservation and management of this resource is really a tale of three rivers that differ geomorphically, hydrologically, and, most importantly, socio-economically. Schramm will use the Mississippi River as an example of conservation and management driven by value and extend this axiom to other fisheries resources. He will discuss some fisheries management successes and remaining challenges, describe the essentiality of partnerships for establishing value, and explore future options for expanding partnerships.



Danielle Brigida

U.S. Fish and Wildlife Service

Using Social Media and Technology to Inspire and Educate

Social media allows us to share experiences, connect with others, and discuss the very important topics (or cat videos). It's up to us to find a way to engage respectfully and distribute meaning through our interactions. I'll talk about techniques for meaningfully engaging in social media so that we educate and inspire those interested in our topic. I'll also discuss how we can use social media, content strategy, and connectivity to build meaningful relationships.

Zeb Hogan

College of Science, University of Nevada, Reno

Using Science and Storytelling to Create a Global Voice for Freshwater Fish Conservation

Zeb Hogan is an assistant professor at the University of Nevada, Reno, a National Geographic Society Fellow, and a United Nations Convention on Migratory Species Scientific Councilor for Fish. He also hosts the National Geographic television series, "Monster Fish." His research includes contributions to understanding the migratory patterns and population status of vulnerable fish species, designation of the giant Mekong catfish as Critically Endangered on the IUCN Red List, and awareness-raising through international media and local communications about the plight of endangered fish species and their habitats. He will discuss his work with the National Geographic Society and other partners to merge conservation science with outreach and action.



2016 AWARDS

EMMELINE MOORE PRIZE



Mamie A. Parker

AWARD OF EXCELLENCE



Kurt Fausch

EXCELLENCE IN FISHERIES EDUCATION



Donald Orth

MERITORIOUS SERVICE



Gwen White

WILLIAM E. RICKER RESOURCE CONSERVATION



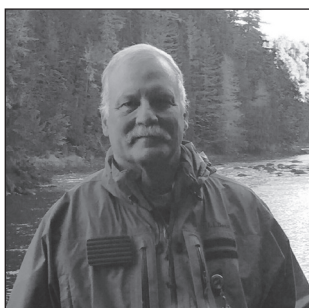
Michael Jones

CARL R. SULLIVAN FISHERY CONSERVATION

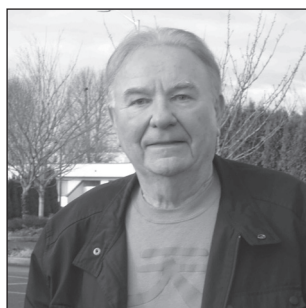


Bill Hogarth

PRESIDENTS' FISHERY CONSERVATION



Mark Hudy



Richard Dyrland

DISTINGUISHED SERVICE AWARD



Donald W. Gabelhouse Jr.

EXCELLENCE IN PUBLIC OUTREACH AWARD



Rob Neumann

EMERGING LEADERS MENTORSHIP AWARD



Michael Moore



Dan Nelson



Patrick Shirey



Sara Turner

OUTSTANDING CHAPTER AWARD



Oregon Chapter

OUTSTANDING STUDENT SUBUNIT AWARD



University of Maine

J. FRANCES ALLEN SCHOLARSHIP AWARD



Katrina Cook

AFS STUDENT WRITING AWARD



Robert Lennox



Nicole Watson

J. FRANCES ALLEN SCHOLARSHIP RUNNER-UP



Vivan Nguyen

SKINNER MEMORIAL HONORABLE MENTIONS



Stephanie
Berkman



Adam
Herdrich



Nicholas
Kramer



Elizabeth Tristano



Casey Pennok



Christopher
Sullivan

JOHN E. SKINNER MEMORIAL SCHOLARSHIP RECIPIENTS



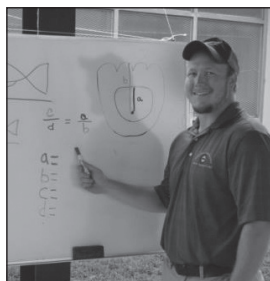
Zachary Beard



David Bogner



Philip Branigan



Kyler Hecke



Lisa Izzo



Robert Mollenhauer



Kasey Pregler



Gretchen Stokes

**STEVEN BERKELEY MARINE CONSERVATION
FELLOWSHIP AWARD**

Wendel Raymond

**STEVEN BERKELEY MARINE CONSERVATION
RUNNERS-UP**

Camrin Braun
Katrina Cook

2016 AFS FELLOW AWARDS

Jeff Boxrucker
David O. Conover
Reginal M. Harrell
Robert M. Hughes
Robert T. Lackey
Donald J. Orth
Donna L. Parrish
Harold L. Schramm, Jr.

**CLASS OF 1967
GOLDEN MEMBERSHIP**

Warren Alward	Robert Denoncourt	David Jude	Raymond Morgan	Malcolm Shealy
Alan Baracco	William Dwyer	Richard Keiser	Loren Moseley	Kenneth Sherman
John Boaze	Richard Kroger	Donald Kline	Stephen Rideout	William Tietjen
Robert Brown	John Griffith	Mark Konikoff	Fredric Serchuk	Harold Tyus
Richard Crone	Bernard Griswold	Dilip Mathur	Clifford Schneider	Robert Werner
Stephen Crooke	Gary Hudson	Robert May	Carl Schreck	Lynn Wixom
Paul Cross	Robert Johnson	James Mayhew	Victor Schuler	Loyd Wright
Donald Danila				

PUBLICATION AWARDS

**ROBERT L. KENDALL BEST PAPER IN
TRANSACTIONS OF THE AMERICAN FISHERIES
SOCIETY**

Scott A. Pavey

*Growth, female size, and sex ratio variability in
American Eel of different origins in both controlled
conditions and the wild: implications for stocking
programs*

**MERCER PATRIARCH BEST PAPER IN
NORTH AMERICAN JOURNAL OF AQUACULTURE**

Louis R. D'Abramo

*Preharvest feeding strategy to enhance long-chain
polyunsaturated and polyunsaturated fatty acid
composition of the tail muscle of freshwater prawns
Macrobrachium rosenbergii grown in earthen ponds*

**BEST PAPER IN NORTH AMERICAN JOURNAL OF
FISHERIES MANAGEMENT**

Pei Haung

*Management evaluation for the Chesapeake Bay Blue
Crab fishery: an integrated bioeconomic approach*

BEST PAPER IN MARINE AND COASTAL FISHERIES

David D. Chagaris

*Simulating the trophic impacts of fishery policy options
on the West Florida shelf using Ecopath with Ecosim*

**BEST PAPER IN JOURNAL OF AQUATIC
ANIMAL HEALTH**

David J. Wise

*Oral vaccination of Channel Catfish against Enteric
septicemia of catfish using a live attenuated
Edwardsiella ictaluri isolate*

EVENTS

NETWORKING EVENTS

Welcome to Kansas City

Sunday, August 21, 6:00 PM – 9:30 PM

Crown Center Square and Sea Life Aquarium

This welcoming event will be held at the Hallmark Pavilion in Crown Center Square. Catch up with old friends and meet new ones in this outdoor courtyard in the heart of downtown Kansas City. Dinner and drinks will be available from 6:30 to 9:00 PM on Sunday, August 21. Be sure to try out some of Missouri's unique carp entrees in addition to traditional evening fare.

Trade Show and Poster Networking Event

Monday, August 22, 6:00 PM – 8:30 PM

Exhibit Hall A

See what is new and exciting in the world of fisheries. Exhibitors will be present on Monday night in the Crown Center exhibit hall. Also, over 100 posters will be on display to see what the next generation of fisheries professionals has been exploring. Drinks and appetizers will be served from 6:00 to 8:30 PM Monday evening.

The Grand Networking Event at Union Station

Wednesday, August 24, 6:00 PM – 10:00 PM

Union Station

Just a short walk from the Sheraton hotel in the enclosed breezeway is the historic Union Station of Kansas City. On Wednesday from 6:00 to 10:00 PM you will be served the best barbecue Kansas City has to offer. Jack Stack BBQ is catering a full course dinner buffet in addition to a selection of assorted beverages.

SOCIETY BUSINESS MEETING

Wednesday, August 24, 3:30 PM – 5:30 PM

Exhibit Hall B

The annual AFS Business Meeting will be held from 3:30 to 5:30 PM on Wednesday, August 24 in Exhibit Hall B. The meeting will include reports by President Ron Essig, Executive Director Doug Austen, and Constitutional Consultant John Boreman; presentation of awards and scholarships; information on plans for the 2017 meeting in Tampa, Florida; installation of elected officers; and other aspects of Society business. Be sure to attend this meeting to honor award and scholarship recipients, and to hear plans for the upcoming year from incoming President Joe Margraf.

STUDENT ACTIVITIES

Students play a vital role in the American Fisheries Society, representing future professionals responsible for conservation of our aquatic resources around the world. Students are encouraged to participate in these events to get the most out of their AFS 2016 Annual Meeting experience.

Best Student Paper and Poster Symposium

The Best Student Paper Symposium will be held Monday afternoon, August 22, 2016, and Tuesday morning, August 23, 2016. The Best Poster Symposium will be held on Monday, August 22, 2016, in the evening. Award recipients will be announced at the AFS Business Meeting on Wednesday, August 24, 2016.

Wild Jobs Café

Students are invited to join mentors on Tuesday afternoon for a speed mentoring session prior to the Student Networking Event Tuesday evening. Mentors from all walks of the fisheries profession will be on hand for face to face interaction, answering questions and relaying advice on what it takes to land that first job. Throughout the conference, students can also peruse current job opportunities available and get familiar with the qualifications needed for jobs at all levels in the fisheries field.

Student Networking Event—Cowboy and Cowgirl Up

Tuesday, August 23, 6:00 PM – 9:00 PM
PBR Big Sky – KC Power & Light District

The AFS 2016 Student Social will be at PBR Big Sky from 6:00 to 9:00 PM on Tuesday, August 23, 2016. Located in the Kansas City Power & Light District, with more than 50 unique and captivating shops, restaurants, bars and entertainment venues, PBR Big Sky is Missouri's favorite "Cowboy Bar." Join students from across the nation while enjoying music, drinks, and KC-BBQ; or cowboy up, try your hand at the 'toughest sport on dirt' and see if you can stay on the in-house mechanical bull for a full 8 seconds.

SPAWNING RUN AND CARCASS CRAWL(5K)

Wednesday, August 24, 7:00 AM – 9:00 AM
Berkley Riverfront Park and Heritage Trail

Join us for the 2016 Spawning Run and Carcass Crawl to be held along the banks of the Missouri River in Kansas City's Berkley Riverfront Park. Beginning at 7:00 a.m., participants are invited to dash along the riverside in this 5-kilometer fun run. For those who are a bit less ambitious, the Carcass Crawl allows for a leisurely walk along the same course. Visit our website, 2016.fisheries.org/spawning-run for the event description as well as more detailed information. Refreshments will be provided after the race.

Register online and check in at the Spawning Run booth in the Terrace to receive race information and your t-shirt. Late registration will be accepted at the registration booth until 4:00 PM on Monday, August 22, but t-shirt size will not be guaranteed.

SILENT AUCTION

Fundraising is an important part of bringing together the Annual Meeting. Most importantly, it provides funds to the John E. Skinner Memorial Fund, which provides monetary travel awards for students to attend the AFS Annual Meetings. This year's auction will be a silent auction with items up for bid that range from equipment that can be used in the field to trips that take you into the areas that inspire us in our work. Please join us in this activity that supports the next generation of fisheries researchers and managers.

LOCAL ATTRACTIONS

Along every boulevard and around every corner, there's something to do that's unique to Kansas City. With a thriving creative arts scene, eclectic mix of entertainment and die-hard sports—it's safe to say there's something for everyone. Find your way in KC by doing it all... or, at least trying to.

Unique attractions throughout KC beckon locals and visitors alike to find the city's hidden gems. Explore the nationally recognized World War I Museum. Let curiosity guide you at Union Station. Walk in the steps of America's 33rd President in Independence. Be inspired at the Nelson-Atkins Museum of Art.



In operation since 1857 and open seven days a week, the City Market is the largest farmers' market in the region with an annual attendance of nearly 600,000 and bursting with more than 140 farmer stalls filled with a wide variety of fresh produce, meats, baked goods, flowers, specialty foods, and other items from all over the world.

The City Market is home to a unique collection of gift shops, authentic restaurants, and the Arabia Steamboat Museum, which houses the largest collection of pre-Civil War artifacts in the world, recovered from a Missouri River steamboat which sank in 1856.

If you're a live music fan, the Crossroads KC @ Grinders in the Crossroads Arts District features a diverse array of musical groups, from rock to reggae and bluegrass to hip hop. When you come to the Crossroads, you'll find lots of free parking, colorful art, delicious dining options, and the beautiful skylines of downtown and Crown Center all under starry skies.

You can experience Major League action at Kauffman Stadium, home of the 2015 World Series Champion Kansas City Royals. "The K" opened April 10, 1973 and is recognized throughout baseball as one of the game's most beautiful ballparks.

The City of Fountains is practically overflowing with adventure. Whether it's the scent of smoldering BBQ luring you to a plate of ribs, the sweet echo of jazz welcoming an evening of entertainment, or the spray of fountains inviting you to kick off your shoes and make a splash, you'll sense inspiration in the air – and find it along every boulevard. Consider this just a sneak peek of all you'll see, hear, feel and taste when you discover KC. Learn more about the wonders and attractions of Kansas City at <https://www.visitkc.com>.

TRADESHOW

EXHIBITOR LISTING

Advanced Telemetry Systems

Booth 211

470 1st Ave N
Isanti, MN 55040
www.atstrack.com

Advanced Telemetry Systems (ATS) offers innovative and reliable wildlife tracking products designed for researchers world-wide. Our customized product line includes: VHF transmitters, satellite collars, GPS collars & loggers, receivers/dataloggers with DSP technology, programmable archive tags and more. Go to www.atstrack.com to live chat with a consultant or to receive a same day product quote.

Affymetrix

Booth 406

3420 Central Expressway
Santa Clara, CA 95051
www.affymetrix.com

Affymetrix, now part of Thermo Fisher Scientific, is transforming genomics in agriculture and offers a powerful range of genotyping and gene expression profiling solutions. Researchers and breeders can cost-effectively identify, validate, and screen complex genetic traits in animals and plants – diploids or polyploids. Visit our booth to learn about our new genotyping solutions for complex genomes, an expanded selection of transcriptome expression profiling solutions, and molecular biology reagents.

Alpha Mach

Booth 400

101-2205 Bombardier
Ste-Julie, QC J3E 2J9, Canada
www.alphamach.com

Alpha Mach specializes in miniature and low cost archival tags used in fisheries and biology research. Our instruments offer the opportunity to economically tag a large number of animals or monitor rivers, lakes & tributaries. Our newest logger, the Weetag[®], are RFID, implantable and have a large capacity memory.

American Fisheries Society – Publications

AFS Booth

425 Barlow Place, Ste. 110
Bethesda, MD 20814
301-897-8616
www.fisheries.org/bookstore

The Books Program publishes textbooks, reference books, manuals, handbooks, and conference proceedings. In-depth studies on fisheries and interdisciplinary subjects, thematically-related collections of papers, and general interest books are produced for classroom learning, continuing professional development, and public education. Videos, computer software, and CDs are also offered. The latest aspects of research, management, policy, and technique are addressed by AFS books on fish biology and ecology, biodiversity and ecosystem management, restoration and conservation, introduced species, native species, genetics, evolution, statistics and mathematics, administration, sampling, engineering, aquaculture, and more. Also covered are sociology, economics, water quality, and other related aspects of aquatic science.

Big Fin Scientific

Booth 301

7200 Highway 71 West, Suite B
Austin, TX 78735
www.bigfinscientific.com

Big Fin Scientific manufactures top-quality fish-study systems, comprised of electronic wireless fish-measurement boards and highly adaptive software that runs on Android tablets. Customize your studies to exactly match your processes. Electronic data-capture avoids transcription errors and allows for real-time feedback and instantaneous data availability. No more waiting! High-quality data. We call it: Digital Fish Science.

BioBase Navico**Booth 115**

1229 Tyler St. NE, Suite 120
Minneapolis, MN 55413
651-204-0640
www.cibiobase.com

BioBase is a cloud-based mapping platform for professionals that automates the processing of acoustic files from consumer Lowrance or Simrad sounders and creates aquatic habitat maps. Users can map habitat while simultaneously conducting fisheries surveys with no additional work. Multiple users in an organization can contribute data to a centralized account. Come to the BioBase booth and ask if the sonar you may already have on your survey boat is compatible.

Biomark Inc.**Booth 207**

705 S. 8th St.
Boise, ID 83702
208-288-0011
www.biomark.com

Biomark specializes in RFID (PIT tag) and related PIT tagging equipment and services for the fisheries and wildlife communities. Biomark serves the research community by designing, manufacturing, installing and maintaining the systems that detect the tags at strategic locations for comprehensive data collection and measurable results. Biomark also provides additional specialized services including tagging, statistical analysis, software development, study design and execution, report writing and computational model development to support analysis and decision making.

BioSonics**Booth 308**

4027 Leary Way NW
Seattle, WA 98107
206-782-2211
www.biosonicsinc.com

BioSonics, Inc., Seattle, WA, has been pioneering creative solutions for monitoring and assessing fisheries and the aquatic habitat using their proven scientific echosounders and advanced software since 1978. BioSonics echosounders are versatile, reliable, easy to operate, and used by resource managers and researchers worldwide. ANNOUNCING FREE SOFTWARE RELEASE! VisAcq AutoTrack, to automatically build and record fish track lists, AND Visual Habitat, to assess and produce maps of aquatic vegetation, substrate type, and/or bathymetry data. (biosonicsinc.com).

Central Life Sciences**Booth 215**

Attn. Gary Ross
P.O. Box 3432
Burleson, TX 76097
682-300-0949
www.zoecon.com

Central Life Sciences a leading manufacturer of pesticides in the USA purchased the rotenone product line from Prentiss/Envincio in 2014. We are the leading supplier of both liquid and powder rotenone formulations including CFT Lequimine the low odor 5% liquid rotenone formulation that contains a more environmentally friendly solvent mix. Our other products include Prenfish Toxicant 5% liquid rotenone, and our Rotenone Fish Toxicant Powder.

CLS America**Booth 404**

4300 Forbes Blvd., Suite 110
Lanham, MD 20706
301-925-4411
www.clsamerica.com

CLS America is a global leader in satellite data communications, ARGOS, wildlife tracking, Iridium, vessel monitoring systems, Thorium, LRIT.

Desert Star Systems LLC**Booth 420**

3261 Imjin Rd.
Marina, CA 93933
831-384-8000
desertstar.com

Desert Star Systems is a pioneer in the tagging industry. We manufacture ARGOS tags equipped with advanced magnetometers to give you better geolocation data. We've also partnered with CLS to provide better automated processing of that data (with access to raw data of course!). SeaTags and TinyTags available.

Echoview Software Pty Ltd.**Booth 319**

P.O. Box 1387
Hobart, TAS 7001, Australia
Phone: 1 206-691-8293
www.echoview.com

Echoview® is the world's premier software package for hydroacoustic data processing, delivering powerful and flexible capabilities for water-column and bottom echosounder and sonar data processing. With its broad scope and continued commitment to delivering cutting-edge capabilities, Echoview has been widely adopted as the global industry standard by fisheries scientists, aquatic ecologists and environmental managers who need to monitor, understand and manage marine and freshwater environments.

EcoAnalysts Inc.**Booth 219**

1420 S Blaine
Suite 14
Moscow, ID 83843
208-882-2588
www.ecoanalysts.com

We are North America's leading provider of freshwater, estuarine, and marine taxonomy services. Using biological communities such as fish, benthic invertebrates, periphyton, zooplankton, phytoplankton and ichthyoplankton, our taxonomy laboratory helps a wide variety of clients to understand the biological condition of surface water systems. With a highly skilled team of taxonomists and laboratory technicians, we process over 10,000 taxonomy samples per year.

ETS Electrofishing Systems, LLC**Booth 323**

1240 E. Washington Ave.
Madison, WI, 53703
608-661-0599
www.etsselectrofishing.com

ETS has provided quality boat, stream barge, and backpack electrofishing systems to federal, state, and private agencies for over 25 years. Our systems feature accurate peak metering and continuously adjustable direct dial controls, allowing fast and precise setting of parameters without wading through computer-style menus and buttons. We offer excellent customer service and custom design each system to meet the needs of your agency, reducing needless complexity and cost.

Fatsack Outdoors Inc.**Booth 402**

311 Kings Mountain Drive
Greer, SC 29650
864-270-4038
www.fatsackoutdoors.com

The Company's first product is a mobile application that serves as a fishing log book designed to help anglers with both their organization and expanding their access to analytics. The product also features robust social and e-commerce components.

Fishiding Reclaimed Artificial Fish Habitat

Booth 307

9011 Ramble Rd
Wonder Lake, IL 60097
815-693-0894
fishiding.com

Fishiding.com has been producing uniquely abstract and densely intricate models of artificial fish habitat from reclaimed pvc since 2007. Diverse models with substantially flat limbs of unlimited thickness, textures, sizes and shapes, focusing on periphyton growth, fish protection, reproduction and overall stress relief. Dense and impenetrable shallow water fry/forage cover, mid depth transition habitat, up to tall spires of vertical HighRise habitat, all models self weighted, bend to shape lasting decades in/out of water.

Florida Chapter of the American Fisheries

Society

Booth 204

<http://sdafs.org/flafs/>

Promotional booth for the 2017 AFS Meeting in Tampa, Florida.

Floy Tag & Manufacturing

Booth 105

4616 Union Bay Place NE
Seattle, WA 98105
206-524-2700
www.floytag.com

Floy Tag and Mfg., Inc. has been in the fisheries research tag business for over 50 years. We specialize in the external, visual tags that are manufactured in Seattle, WA.

Freshwater, Fish and the Future

425 Barlow Place, Ste. 110
Bethesda, MD 20814
301-897-8616
inlandfisheries.org

As recently supported at the Committee on Fisheries (COFI) meeting at the UN Food and Agriculture Organization (FAO), the "Rome Declaration: Ten Steps to Responsible Inland Fisheries" outlines much needed international actions to improve the global sustainability of freshwater fisheries and maintain the livelihoods and nutrition security of those who depend on them. Stop by for a free copy of the Ten Steps pamphlet.

Frigid Units Inc.

Booth 320

5072 Lewis Ave
Toledo, OH 43612
419-478-4000
frigidunits.com

Frigid Units manufactures various Fiberglass Tanks and Water Chiller/Heater Units. Including our closed re-circulating "Living Stream" which cools, aerates and filters in one operation & our Min-O-Cool's. Versatile STREAM MODULES (now in 3 sizes) for a continuous flow of water in limited space and Patented CHILLER/HEATER Units with dual digital thermostat for consistent temperature control. Need something special? We have the flexibility to custom manufacture to special needs.

Halltech Aquatic Research Inc.

Booth 209

129 Watson Rd South
Guelph, ON N1L 1E4, Canada
519-766-4568
www.halltechaquatic.com

Halltech has been building quality Fisheries and Aquatic Research Equipment since 1991. Our reputation as a highly attentive manufacturer and supplier of a very wide variety of technical field supplies is a source of great pride. Our client base of the very popular HT2000MKV Battery Powered Backpack Electrofisher and all its conversion kits is growing rapidly worldwide. Our Electrofishing Boats featuring the Midwest Infinity Box are performing flawlessly in all types of water bodies.

Hydroacoustic Technology, Inc.

Booth 408

715 NE Northlake Way
Seattle, WA 98105
206-633-3383
www.HTIsonar.com

From fine-scale acoustic tag tracking systems to advanced hydroacoustic echo sounders to fisheries consulting & training, HTI provides scientific research solutions for fisheries worldwide. Monitor fish passage, behavior, and survival with acoustic tag systems or detect predation events with predation detection acoustic tags. Accurately determine fish presence, counts, and distribution/density with echo sounders. HTI's team of biologists & consultants are available to conduct studies, provide support & training to help reach your research objectives. www.HTIsonar.com

Hydrolox

Booth 217

New Orleans, LA 70123
866-586-2825
www.hydrolox.com

Hydrolox™ engineered polymer chainless traveling water screens deliver long lasting, cost-effective, virtually maintenance-free performance. Proven to exclude debris and reduce harm to aquatic life, these 316(b) compliant, easy to install solutions are built to withstand extreme debris events and eliminate uneven wear and mistracking. Backed by expert project management and industry-leading warranties, Hydrolox screens address the needs of water-extracting facilities across all industries.

Intake Screens, Inc.

Booth 418

8417 River Rd.
Sacramento, CA 95832
916-665-2727
intakescreensinc.com

Wedgewire fish protection screens for water diversions. ISI provides engineered self-cleaning intake screen systems for regulatory compliance and intake reliability. Our proven brush-cleaned systems are designed for fine slot applications at new and existing sites.

The Japanese Society of Fisheries Science

Booth 109

4-5-7 Konan, Minato
Tokyo 108-8477, Japan
81-3-3471-2165
<http://jsfs.jp/en>

Since 1934, JSFS has been dedicated to the field of fisheries sciences. In 2017, an international symposium will be held September 22–24 celebrating the association's 85th anniversary, and any participants from overseas are welcome. Information is announced in <https://www.gakkai-web.net/gakkai/jsfs/sympo/index.html>.

Kasco Marine

Booth 315

Contact: Megan Wolf
800 Deere Road
Prescott, WI 54021-1241
www.kascomarine.com

Kasco, a leader in the aquaculture and fish rearing industries, offers several products to make your farm, ponds, or tanks more productive with healthier, faster growing fish. Our surface aerators, Robust-Aire Diffused Aeration and circulators will help improve the health and growth rate of your fish, prevent winter kills and improve your overall water quality. Whether you're a production farmer, researcher, or hobbyist, Kasco will provide the best water quality management possible.

Little Pond Nature Prints

Booth 213

322 SE Harney St.
Newport, OR 97365
541-961-7567
<http://koikebruce.wix.com/koike-fish-prints>

Little Pond Nature Prints specializes in the Japanese art of Gyotaku (Fish Printing). Original art is executed with acrylic paint on rice paper. This technique involves the use of the actual fish, shellfish or botanical. No odor is left behind!! Visit us at the AFS-2016 Trade Show.

Little River Research & Design

Booth 325

550 N. University Ave.
Carbondale, IL 62901
618-529-7423
www.emriver.com

Little River Research & Design builds innovative movable-bed river process simulators for hands-on teaching and research. Study river habitat hydraulics including substrates and flow around structures with the Emflume1, a turnkey, portable, desktop flume system. As a complement to the flume, teach and explore river geomorphology and engineering concepts in our 2, 3, and 4-meter length Emriver geomodels. Our models are used around the world and are uniquely trouble-free, easy to use, and portable.

Lotek Wireless Inc.

Booth 309

Attn: Joseph Di Lullo
115 Pony Drive
Newmarket, ON L3Y 7B5, Canada
905-836-2904
lotek.com

Lotek is a world leader in the design and manufacture of fish and wildlife monitoring systems. These include radio, acoustic, archival and satellite technology

Marel Seattle

Booth 309

2001 W Garfield St.
Terminal 91 Building A1
Seattle, WA 98119
619-977-3144
www.marel.com

Marel is the leading global provider is advanced processing systems and services to the Fish, Meat, and Poultry industries. We offer the convenience of single source to meet every need. In partnership with our customers we are transforming the way food is processed. Our vision is of a world where quality food is produced sustainably and affordably.

Media Cybernetics

Booth 103

401 N Washington St., Suite 350
Rockville, MD 20871
301-495-3305
www.mediacy.com

Media Cybernetics' Image-Pro® Premier image analysis software is particularly suited for fisheries research and quality assurance. Premier's selection of automated, semi-automated and manual options enables fish biologists and research technicians to extract valuable qualitative and quantitative information from images at different scales of both fresh and salt water species. To learn more/download the Otolith app, please visit the Media Cybernetics App Center today at www.mediacy.com.

Midwest Lake Electrofishing Systems

Booth 201

7561 SW Prairie Ridge Rd.
Polo, MO 64671
816-804-50604
www.midwestlake.com

Midwest Lake Electrofishing Systems Manufacturers of the most versatile electrofishing systems in the industry—the Infinity Control Box, the Infinity HC-80 and the Infinity Xstream Backpack Electrofisher. Through innovation and superior customer service, we are changing the way fisheries managers and researchers do business. We design, fabricate, and distribute sampling equipment, including top-notch electrofishing boats, to meet the needs of the fisheries professional. Our biologists also perform contract consulting and fish sampling.

Miller Net Company, Inc.

Booth 205

P.O. Box 18787
Memphis, TN 38181
800-423-6603
www.millernets.com

Miller Net Company is a family business with a product line developed from four generations of experience. Our hand-crafted nets are built in our net shop located in Memphis, Tennessee. We have years of experience in the art of hanging nets. We use only the finest materials in our nets—no seconds or inferior netting is ever used. Miller Net Company never substitutes material. We have years of experience specializing in trap/fyke nets, experimental gill nets, hoops nets, etc.

Mossback Fish Habitat

Booth 50

1853 W Henride Tonti Blvd.
Springdale, AR 72762
479-751-4100
www.mossbackrack.com

Mossback Fish Habitat is a full line of artificial habitat designed by fishermen for fishing and fisheries management with products custom-manufactured to meet your specific habitat needs. Whether you are looking for habitat to hang from an individual dock to improve your catch rates, provide safe havens for fry and baitfish survival and recruitment, or a complete lake restoration project, Mossback Fish Habitat can meet your needs.

National Fish Habitat Partnership

Booth 318

1100 First St, NE
Suite 825
Washington, DC 20002
www.fishhabitat.org

Since 2006, the National Fish Habitat Partnership has been a partner in 417 projects in 46 states benefiting fish habitat. The National Fish Habitat Partnership works to conserve fish habitat nationwide, leveraging federal, state, tribal, and private funding resources to achieve the greatest impact on fish populations through priority conservation projects. The national partnership implements the National Fish Habitat Action Plan and supports 19 regional grassroots partner organizations.

National Oceanographic Partnership Program

Booth 317

www.nopp.org

The National Oceanographic Partnership Program (NOPP) is an innovative collaboration of Federal agencies that supports and coordinates ocean research partnerships among state and tribal governments, academia, private industry, and non-governmental organizations (NGOs). Under the inter-agency guidance of the NOPP, these sectors are able to form partnerships that more efficiently pursue the Nation's most pressing research needs on ocean science and technology priorities.

NOAA Fisheries

Booth 424

1315 East-West Highway
Silver Spring, MD 20910
www.fisheries.noaa.gov

NOAA Fisheries is responsible for the stewardship of the nation's ocean resources and their habitat. We provide vital services for the nation: productive and sustainable fisheries, safe sources of seafood, the recovery and conservation of protected resources, and healthy ecosystems—all backed by sound science and an ecosystem-based approach to management.

**NOAA LMRCSC (Living Marine Resources
Cooperative Science Center)**

Booth 422

1 Backbone Rd., Carver Hall Room 1103
Princess Anne, MD 21853
410-621-2270
<https://www.umes.edu/lmrcsc/>

The NOAA Living Marine Resources Cooperative Science Center (LMRCSC) trains and graduates students from underrepresented communities in marine science for careers in research, management, and public policy that support the sustainable harvest and conservation of our nation's living marine resources. With its partner institutions, the LMRCSC conducts research on marine and estuarine systems congruent with the interests of NOAA Fisheries.

Northwest Marine Technology, Inc.

Booth 221

955 Malin Lane SW
Tumwater, WA 98501
360-468-3375
www.nmt.us

NMT specializes in implant tags for live fish, crustaceans, reptiles and amphibians, and other aquatic animals in a manner that minimizes biological impact while providing clear and unbiased data. All of our tags are injected internally and include Coded Wire Tags, Visible Implant Elastomer Tags, and Visible Implant Alpha Tags. NMT also offers fish counters for juveniles and adults.

Oregon RFID

Booth 208

4246 SE Ogden St.
Portland, OR 97206
503-929-2706
www.oregonrfid.com

Oregon RFID manufactures equipment for tracking fish and wildlife using low frequency PIT tags and readers. Our products are used worldwide for scientific research and commercial operations. We have been providing our customers with quality products and support since 2003. Oregon RFID is a government certified Woman Owned Small Business.

OTT Hydromet

Booth 216

5600 Lindbergh Drive
Loveland, CO 80539
512-869-2977
www.ott.com

OTT Hydromet helps water resource professionals generate reliable data throughout the entire water cycle. We go beyond simply providing solutions by partnering with our customers in designing effective answers to the challenges they encounter in their vital role of monitoring the world's water. OTT Hydromet offers the combined strength & expertise of leaders in the water quality, quantity & telemetry fields & over 140 years of experience in environmental measurement.

Pacific Netting Products, Inc.

Booth 313

25993 United Rd. NE
Kingston, WA 98346
360-297-0858
www.pacificnettingproducts.com

Pacific Netting Products designs, manufactures and installs high-tech, flexible barriers for fish passage, fish exclusion and fish guidance. Our products can help you protect fish, guide them and keep them healthy as they migrate past hydroelectric dams; exclude fish from being trapped at water intake structures used for industrial cooling; exclude birds from energy sites, polluted water, crops, gardens, or buildings or secure animals in enclosures at aquaculture or other marine enclosures.

Quantum Spatial, Inc.

Booth 210

10033 MLK St. N, Suite 200
ST. Petersburg, FL 33716
727-576-9500
www.quantumspatial.com

Quantum Spatial is the most technically advanced geospatial solutions provider in North America. Our capabilities encompass the acquisition, analysis, integration, and management of geospatial data. We offer a diverse portfolio of advanced imaging and remote sensing technologies, backed by powerful modeling, visualization, and GIS tools. We help federal clients use geospatial data to better understand and manage land, water, and wildlife resources. We also provide timely, geospatial data to the U.S. defense and intelligence community.

Smith-Root Electrofishing Solutions

Booth 312

140114 NE Salmon Creek Ave.
Vancouver, WA 98686
360-573-0207
www.smith-root.com

Smith-Root was honored to receive the "Dedication Award" from AFS at the 2015 American Fisheries Society Conference in Portland, Oregon. It has always been an honor to partner with fisheries scientists to develop solutions for the fisheries conservation and management community. Thank you all for your dedication to improving aquatic environments.

Sonotronics

Booth 223

3169 S. Chrysler Ave.
Tucson, AZ 85713
Phone: 520-746-3322
www.sonotronics.com

Sonotronics is celebrating 45 years as a pioneer in acoustic telemetry for animal tracking, providing ultrasonic transmitters, receivers and hydrophones for tracking animals and equipment underwater.

Taylor & Francis

Booth 311

530 Walnut Street, Suite 850
Philadelphia, PA 19106
215-625-8900
www.tandfonline.com

For two centuries, Taylor & Francis has been fully committed to the publication of scholarly research. We publish the official journals for the American Fisheries Society, and also a variety of similar titles relevant to the field of aquatics. Visit the Taylor & Francis booth to learn about our products and services, and to request free sample copies of our journals.

Trovan, Ltd.

Booth 305

175 Santa Elena Ln.
Santa Barbara, CA 93108
805-565-1288
www.trovan.com

Trovan, Ltd. offers turnkey RFID solutions for identification of fish and crustaceans. With over 280 million tags using TROVAN technology sold to date, Trovan is the leading supplier of tagging equipment and automation solutions for fish identification globally. Miniature TROVAN tags will work where others won't, offering superior read performance for size of tag. Use Trovan transponders to safely identify individual specimens for life, with minimal impact on the animals.

UID Identification Solutions

Booth 306

500 Park Ave., Suite 109
Lake Villa, IL 60046
<http://www.uiddevices.com/>

Founded by research scientists, UID specializes in unique solutions for the identification and tracking wildlife animals using PIT Tags. Customize your research with different solutions using UID PIT tags and readers to complement your research needs. Each PIT tag is ISO 11784/85 and ICAR Compliant to ensure the highest quality and non-repeating unique numbers. 15 year minimum life expectancy for ensured long term reading. UID also provides custom software support to develop your specific application for research. Ask about our Free Reader Program.

USDA Forest Service

Booth 303

1400 Independence Ave., SW
Washington, DC 20250
1-800-832-1355
<http://www.fs.fed.us/>

The USDA Forest Service manages and protects 154 national forests and 20 grasslands in 44 states and Puerto Rico, including thousands of stream miles and lake acres. Our mission is to sustain the health, diversity, and productivity of the nation's forests and grasslands to meet the needs of present and future generations. We work with a diverse group of partners, including Federal, State, and Tribal agencies, universities, NGOs, and international co-operators, to enhance aquatic conservation.

Utah State University Quinney College of Natural Resources

Booth 107

5200 Old Main Hill
Logan, UT 843220
435-797-2452
<http://qcnr.usu.edu/mnr/index>

The Quinney College of Natural Resources at Utah State University offers undergraduate degree programs in Fisheries and Aquatic Sciences, and graduate programs in Fisheries Biology and the Master of Natural Resources (MNR). The MNR is a professional degree targeted to students who are currently employed by natural resource agencies, consulting firms, or non-profit organizations. Utah State University is located in Logan, Utah, a scenic mountain town of 50,000 people.

VEMCO

Booth 414

20 Angus Morton Dr.
Attn: Nancy Edwards
Halifax, NS B4B 0L9, Canada
902-450-1700 x279
www.vemco.com

VEMCO is the world leader in the development of underwater acoustic telemetry monitoring and tracking systems used by researchers worldwide for behaviour, migration and positioning studies of aquatic animals in fresh and saltwater environments. Products include acoustic transmitters, automated receivers for long term studies, receivers that deliver high-resolution positioning, and temperature data loggers. Learn more about our newest receivers, the VR2Tx with built-in transmitter and the VR2AR with built-in transmitter and acoustic release.

West Marine Products Inc DBA Port Supply

Booth 113

800-621-6885
<https://www.portsupply.com/>

Port Supply the wholesale division of West Marine is one of the largest wholesale distributors of marine and boating related products and accessories in the world. We carry a broad selection of marine accessories and products from over 1000 major marine vendors. Our product offering represents virtually every quality marine manufacturer in the industry. We offer pro-forma and open terms wholesale accounts to Institutions, Non-Profits and Marine Research organizations without minimum annual spending thresholds.

Whooshh Innovations

Booth 412

2001 West Garfield St.
Seattle, WA 98119
206-810-3565
www.whooshh.com

Whooshh Innovations is revolutionizing fish passage and fish rescue through our proprietary, proven, water-sparing Whooshh™ technology—moving live fish over and around barriers gently, reliably, and cost-effectively through hands-free, assisted, or hand-fed solutions. The company has a patent portfolio that includes 20 patents issued with another 100 patents pending worldwide.

Wildscapes Inc.

Booth 321

1835 Ridge Rd.
Clover, SC 29710
304-280-5428
www.wildscape.com

I raise the caddisfly larva in a simulated stream and give them gemstones to build their stone cases with. The results are beautiful unique designs created by the caddisfly!

YSI, a Xylem Brand

Booth 410

1725 Brannum Ln.
Yellow Springs, OH 45387
937-688-4255
ysi.com

YSI Incorporated, a subsidiary of Xylem Analytics, designs and manufactures water quality equipment for sampling and monitoring applications. YSI is committed to developing and supporting innovative technology that will contribute to the sustainability of global fisheries. Whether conducting continuous monitoring and control or spot sampling, YSI instruments make your job more efficient. Parameters include; conductivity, chlorophyll, dissolved oxygen, pH, ORP, salinity, chloride, turbidity, flow, temperature, level, blue-green algae and more.

Zerion Software

Booth 111

13665 Dulles Technology Dr., Suite 110
Herndon, VA 20171
www.zerionsoftware.com

Zerion transforms the way organizations capture, use, and manage their data. We are dedicated to creating technology that enables teams to improve on their inspections, exceed compliance regulations, and make better business decisions.

SYMPOSIA AND CONTRIBUTED PAPER SESSIONS

For space-saving reasons, only the title, organizers, moderators, and chairs are shown. Details about each session, including symposium descriptions, are available online at <https://afs.confex.com/afs/2016/webprogrampreliminary/SYMP.html> or on the mobile app.

SYMPOSIA

Actions to Increase the Engagement of Underrepresented Minorities in Fisheries and Aquatic Sciences

Tuesday, August 23
9:40 AM – 1:00 PM
Room: New York A

Moderator: Mamie Parker

Organizers: Ambrose Jearld, Christine M. Moffitt, Steve E. Lochmann, and Gwen White

An Examination into Influencing the Future of Angling Participation to Sustain Conservation Support

Session I: Tuesday, August 23
9:40 AM – 5:00 PM
Room: Empire A

Session II: Wednesday, August 24
9:40 AM – 3:00 PM
Room: Empire A

Session III: Thursday, August 25
8:00 AM – 5:00 PM
Room: Empire A

Moderators: Tom Lang, J. Wesley Neal, Rebecca M. Krogman, John Taylor, and Ken Kurzawski

Organizers: Tom Lang, J. Wesley Neal, Kevin Hunt, John Taylor, Ken Kurzawski and Rebecca M. Krogman

Angling for Dinosaurs: Status and Future Study of the Ecology, Conservation and Management of Ancient Fishes

Monday, August 22
9:40 AM – 5:00 PM
Room: Chicago A

Moderators: Sarah Huck, Solomon David, and Jeffrey Stein

Organizers: Sarah Huck, Solomon David, and Jeffrey A. Stein

Applications of Methods and Techniques and Collaborations in Managing and Conserving Large River Basin Fishery Resources and Environment

Thursday, August 25
8:00 AM – 4:20 PM
Room: Empire B

Moderators: Duane Chapman, Quinton Phelps, Michael Eggleton and Yushun Chen

Chair: Yushun Chen

Organizers: Yushun Chen, Duane Chapman, Quinton Phelps, Michael Eggleton, Daqing Chen and Zhongjie Li

Best Student Papers and Posters Symposium

Monday, August 22
9:40 AM – 5:00 PM
Room: Chouteau A

Organizers: Mark Fincel, Amanda Rosenberger, and Daniel E. Shoup

Blue Catfish: Lessons from a Large Riverine Opportunistic Catfish

Tuesday, August 23
1:00 PM – 4:40 PM
Room: Chicago B

Moderators: Joseph Schmitt and Martha E. Mather
Organizer: Donald J. Orth

Cooperative Fisheries Research in Marine and Freshwater Systems: From Policy to Practice

Session I: Monday, August 22
9:40 AM – 5:00 PM
Room: Chouteau B

Session II: Tuesday, August 24
9:40 AM – 1:40 PM
Room: Chouteau B

Moderators: Richard S. McBride, Nick Trippel, Angela Collins, Chris Bradshaw, Travis Tuten, Kim Bonvechio and Dave Herzog

Chairs: Angela Collins, Richard S. McBride and Nick Trippel

Organizers: Angela Collins, Richard S. McBride, Nick Trippel, Quinton Phelps and Dave Herzog

Coupled Interactions between Natural and Human Systems—on the Interplay between Aquatic Ecosystem Health, Human Behavior and Decision-Making, and Aquatic Invasive Species

Wednesday, August 24
9:40 AM – 3:00 PM
Room: Atlanta

Chairs: Hongyan Zhang and Doran M. Mason

Organizers: Hongyan Zhang, Victoria Campbell-Arvai, Doran M. Mason, and Edward S. Rutherford

Documented and Documenting the Effects of Climate Change on Inland Fish and Fisheries

Monday, August 22
9:40 AM – 4:40 PM
Room: Empire C

Moderators: Bethany Bethke, Kristen Bouska, and Bonnie Myers

Organizers: Craig P. Paukert, Abigail J. Lynch, Michelle D. Staudinger and Joanna Whittier

Ecological Flow Science and Policy: Protecting Stream Systems Today; Preparing for Tomorrow

Monday, August 22
9:40 AM – 5:00 PM
Room: New York A

Moderators: Paul Blanchard, Jason Persinger and Emily Tracy-Smith

Organizers: Jason Persinger and Emily Tracy-Smith

Effects of Diploid Grass Carp and State Grass Carp Stocking Policies on Aquatic Ecosystems

Monday, August 22
9:40 AM – 5:00 PM
Room: New York B

Moderators: Greg Conover and Ron Brooks

Chair: Greg Conover

Organizer: Greg Conover

Effects of Drought on Aquatic Resources, Fisheries Management, and Mitigation Strategies

Session I: Wednesday, August 24
9:40 AM – 3:00 PM
Room: Chicago B

Session II: Thursday, August 25
8:00 AM – 5:00 PM
Room: Chicago B

Moderators: Karin E. Limburg, Matthew Altenritter and Timothy H. Bonner

Chairs: Stephan Magnelia and Kevin Mayes

Organizers: Stephan Magnelia, Kevin Mayes, Tom Lang, Ryan Roberts, Matthew Altenritter, Lindsay A. Campbell and Karin Limburg

Fish Research and Conservation in the “Scapes”: Needs, Progress, Challenges, and Opportunities

Monday, August 22
9:40 AM – 5:00 PM
Room: Empire A

Moderators: Jordan Hofmeier, Sean Hitchman and Ryland Taylor

Organizers: Sean Hitchman, Martha Mather and Jordan Hofmeier

Fisheries Management from the Great Lakes to the Gulf: Sea Grant’s Role in Research, Outreach and Building Partnerships along the Mississippi River

Monday, August 22
9:40 AM – 2:20 PM
Room: Van Horn B

Moderators: Jayson Beugly and Matthew Bethel

Chair: Jayson Beugly

Organizers: Laura Kammin, Matthew Bethel, Abigail Archer and C. Eliana Brown

Fisheries Science in 140 Characters: The Role of Social Media in Our Science

Tuesday, August 23
9:40 AM – 5:00 PM
Room: Chouteau A

Moderators: Sean M. Lucey, Abigail J. Lynch, Patrick B. Cooney and Brandon Peoples

Chair: Sean M. Lucey

Organizers: Sean M. Lucey, Abigail J. Lynch, Patrick B. Cooney and Brandon Peoples

Global Importance and Threats to Floodplain Fisheries: Potential Mitigation Measures to Reconnect Floodplains, Including Synergistic Benefits of Working with other Water Resource Sectors

Monday, August 22
1:00 PM – 5:00 PM
Room: Chicago C

Moderators: Quinton Phelps and Ian G. Cowx

Organizers: Quinton Phelps and Ian G. Cowx

Hatchery Fish Biologist... A Career for the Future

Tuesday, August 23
9:40 AM – 5:00 PM
Room: Van Horn B

Moderators: Steve Lochmann, Mike Barnes and Carl Kittel

Chairs: Steve Lochmann, Mike Barnes and Carl Kittel

Organizers: Steve Lochmann, Mike Barnes and Carl Kittel

Inland Drivers of Coastal Hypoxia

Tuesday, August 23

1:40 PM – 5:00 PM

Room: Chouteau B

Moderator: Gwen White

Organizers: Thomas Bigford, Mary C. Fabrizio, Karin Limburg and Benjamin Walther

Interactions Between Hydrology and Nonnative Aquatic Species

Tuesday, August 23

9:40 AM – 5:00 PM

Room: Empire C

Moderators: Duane Chapman and Scott A. Bonar

Chairs: Duane Chapman and Scott A. Bonar

Organizers: Duane Chapman and Scott A. Bonar

Management Strategy Evaluation, Decision Analysis, and Ensemble Modeling: Tools for Addressing Assessment and Management Uncertainty

Monday, August 22

9:40 AM – 5:00 PM

Room: Van Horn C

Moderator: Teresa A'mar

Chair: Richard D. Methot

Organizers: Richard D. Methot and Teresa A'mar

Managing Centrarchid Fisheries in Rivers and Streams

Session I: Tuesday, August 23

9:40 AM – 5:00 PM

Room: New York B

Session II: Wednesday, August 24

9:40 AM – 5:00 PM

Room: New York B

Session III: Thursday, August 25

8:00 AM – 11:00 AM

Room: New York B

Moderators: Robert Humston, Michael Siepker, Christopher Middaugh, Amy Cottell, Brett Timmons, Jan-Michael Hessenauer, Matthew Wegener, Jonathan Watson, Wes Porak, Jeffrey Quinn and Patrick Shirey

Chairs: Michael Siepker and Jeffrey Quinn

Organizer: Michael Siepker

Managing Riverscapes: Conservation Tools to Assess and Improve Stream Fisheries

Wednesday, August 24

9:40 AM – 3:00 PM

Room: Chouteau A

Moderators: David Schumann and Katie Bertrand

Chair: David Schumann

Organizer: Katie Bertrand

Pop-Up Satellite Tagging—Challenges and Solutions

Monday, August 22

9:40 AM – 4:40 PM

Room: Empire B

Moderator: Timothy F. Sheehan

Organizers: Mark D. Renkawitz and Timothy F. Sheehan

Preparing Fisheries Professionals with Depth and Breadth (T-Shaped Professionals)

Session I: Wednesday, August 24

9:40 AM – 3:00 PM

Room: New York A

Session II: Thursday, August 25

3:20 PM – 5:00 PM

Room: New York A

Moderators: Erin Jarvie and Heather Triezenberg

Chair: Heather Triezenberg

Organizers: Erin Jarvie and Heather Triezenberg

Protecting Fish at Cooling Water Intakes: New Rules and Science-based Solutions

Thursday, August 25

8:00 AM – 4:20 PM

Room: Chouteau A

Moderators: Terry E. Cheek, Ronald Heun, Chuck Coutant, William Dey and Douglas A. Dixon

Chairs: Jon Black and Daniel Giza

Organizers: Terry E. Cheek, Ronald Heun, Chuck Coutant, William Dey, Douglas A. Dixon, Jon Black, and Daniel Giza

Release and Discard Mortality Estimation: Lessons from Freshwater and Saltwater Environments

Session I: Tuesday, August 23

9:40 AM – 5:00 PM

Room: Empire B

Session II: Wednesday, August 24

9:40 AM – 11:40 AM

Room: Empire B

Moderators: Lee Benaka and David Rudders

Organizers: Lee Benaka, Noelle Yochum, David Rudders, and Derek Orner

Reservoir Fisheries Habitat Restoration: Innovative Techniques to Restore Habitat in our Nation's Impoundments

Session I: Monday, August 22

9:40 AM – 5:00 PM

Room: Atlanta

Session II: Tuesday, August 23

9:40 AM – 2:20 PM

Room: Atlanta

Moderator: Jeff Boxrucker

Chair: Jeff Boxrucker

Organizers: Jeff Boxrucker and Tom Lang

Stephen Weithman: His Life Honored Through the Student Award

Tuesday, August 23

9:40 AM – 11:40 AM

Room: Chicago B

Moderator: Keith Criddle

Organizers: Tom Lang, Heather Triezenberg, and Vince Travnich

Theory and Application of Behavioral Guidance Technologies to Deter Invasive and Native Fish

Thursday, August 25

8:00 AM – 4:20 PM

Room: Chicago C

Moderators: Daniel Zielinski, Peter W. Sorensen, and Clark Dennis

Chair: Peter W. Sorensen

Organizers: Daniel Zielinski and Peter W. Sorensen

**Translating Essential Fish Habitat (EFH)
Science into Fishery Management Decisions**

Monday, August 22

2:20 PM – 5:00 PM

Room: Van Horn B

Moderators: Anthony R. Marshak and Lauren
Latchford

Organizers: Lauren Latchford, Anthony R. Marshak,
Christopher Meaney, Terra Lederhouse, and Kirsten
Larsen

**Understanding Pallid Sturgeon Population
Dynamics and Stressors in the Missouri and
Mississippi Rivers**

Thursday, August 25

8:00 AM – 5:00 PM

Room: Chicago A

Moderators: Tim L. Welker, Todd Gemeinhardt,
Joseph Bonneau, and George A. Williams

Chairs: Nathan Gosch and Tim L. Welker

Organizers: Nathan Gosch and Tim L. Welker

**What Data are Needed to Ensure Freshwater
Mollusk Conservation into the Future?**

Thursday, August 25

3:20 PM – 5:00 PM

Room: Atlanta

Moderator: Wesley Daniel, PhD

Chair: Wesley Daniel, PhD

Organizers: Wesley Daniel, PhD; Arthur R. Cooper;
and Dana M. Infante, PhD

CONTRIBUTED PAPER SESSIONS

Carp Ecology and Management

Thursday, August 25th
8:00 AM – 11:40 AM
Room: Chouteau B

Moderator: Brett Landwer

Ecology and Life History—Wednesday

Wednesday, August 24th
9:40 AM – 3:00 PM
Room: Chouteau B

Moderators: Dave Michaelson and Emily Tracy-Smith

Ecology and Life History—Thursday

Thursday, August 25th
1:00 PM – 5:00 PM
Room: Chouteau B

Moderator: Nicole Farless

Fish and Cooling Water Intakes

Wednesday, August 24th
9:40 AM – 11:40 AM
Room: Van Horn B

Moderator: Mike Mitchell

Fish Conservation

Thursday, August 25th
8:00 AM – 1:40 PM
Room: Atlanta

Moderator: Hope Dodd

Fish Culture

Thursday, August 25th
1:00 PM – 5:00 PM
Room: Van Horn B

Moderator: Rod May

Freshwater Fisheries Management—Tuesday

Tuesday, August 23rd
9:40 AM – 5:00 PM
Room: Chicago A

Moderators: Nick Gironde and Mike Reed

Freshwater Fisheries Management—Wednesday

Wednesday, August 24th
9:40 AM – 3:00 PM
Room: Chicago A

Moderators: Scott Williams and Lynn Schrader

General Session—Tuesday

Tuesday, August 23rd
3:20 PM – 5:00 PM
Room: New York A

Moderator: Molly Sobotka

General Session—Wednesday

Wednesday, August 24th
1:00 PM – 3:00 PM
Room: Empire B

Moderator: Brian Todd

Genetics

Monday, August 22nd
9:40 AM – 11:40 AM
Room: Chicago C
Moderator: Dave Woods

Marine Fisheries Management

Thursday, August 25th
1:00 PM – 5:00 PM
Room: New York B
Moderator: Rich Cook

Modeling and Statistics

Thursday, August 25th
8:00 AM – 2:00 PM
Room: New York A
Moderator: Doug Novinger

Movement and Aquatic Organism Passage— Tuesday

Tuesday, August 23rd
9:40 AM – 5:00 PM
Room: Chicago C
Moderators: Matt Matheney and Jason Persinger

Movement and Aquatic Organism Passage— Wednesday

Wednesday, August 24th
9:40 AM – 2:00 PM
Room: Chicago C
Moderator: Craig Fuller

River Restoration

Thursday, August 25th
8:00 AM – 11:00 AM
Room: Van Horn B
Moderator: Del Lobb

Salmonids—Wednesday

Wednesday, August 24th
9:40 AM – 3:00 PM
Room: Empire C
Moderators: Tom Whelan and Laura Ruman

Salmonids—Thursday

Thursday, August 25th
8:00 AM – 4:20 PM
Room: Empire C
Moderators: Andy Cornforth and Andy Austin

Sampling Strategies

Monday, August 22nd
3:20 PM – 5:00 PM
Room: Chicago B
Moderator: Darren Thornhill

Sturgeon and Paddlefish

Monday, August 22nd
9:40 AM – 3:00 PM
Room: Chicago B
Moderators: Adam McDaniel and Jason Goeckler

SCHEDULE OF ORAL PRESENTATIONS

Consult the AFS Annual Meetings mobile app for the latest schedule changes.

Schedule of Oral Presentations—Monday, August 22

Room	Atlanta	Chicago A	Chicago B	Chicago C
Time	Reservoir Fisheries Habitat Restoration I	Angling for Dinosaurs: Status and Future Study of the Ecology, Conservation and Management of Ancient Fishes (Symposium)	Sturgeon and Paddlefish	Genetics
9:40 AM	Reservoir Fisheries Habitat Restoration Is Too Big a Job for Any One Agency to Tackle: Partnering and the Reservoir Fisheries Habitat Partnership's Role in Its' Promotion <i>Jeff Boxrucker</i>	Introductory Remarks <i>Solomon David</i>	Dispersal of Lake Sturgeon from a Connecting Channel: Implications for Restoration in the Great Lakes <i>Justin Chiotti</i>	Global Population Genomic Structure of Yellowfin Tuna (<i>Thunnus albacares</i>) <i>Carlo Pecoraro</i>
10:00 AM	The Challenge of Reservoir Fish Habitat Improvement in Texas: It's Going to Take a Village <i>Dave Terre</i>	Morphological Variation Among Bowfin (<i>Amia</i>) Populations from the Carolinas and Laurentian Great Lakes: Taxonomic and Conservation Implications <i>Jay Palumbo</i>	The Role of Lake Sturgeon in a Dreissenid Dominated Ecosystem <i>Andrew S. Briggs</i>	Marine Suture Zones As Evidence of Postglacial Recolonization in an Indo- Pacific Aquarium Fish <i>Ellen Biesack</i>
10:20 AM	Inspiring the Will to Revitalize a Reservoir <i>Tom Lang</i>	Success of Morphometric Gender Identification of Alligator Gar <i>Dusty McDonald</i>	Quantifying Summer Residency Times and Variation in Diel Behaviors of Lake Sturgeon in Buffalo Harbor, NY <i>Rachel Neuenhoff</i>	Genetic Diversity Among Great Lakes Cisco Species: Exploring Taxonomic and Population Boundaries <i>Wendylee Stott</i>
10:40 AM	So Why Should a Fish Biologist Want to Play in the Dirt? <i>Mark T. Porath</i>	Primer Designs for Identifying Seven Species of Gars and Potential Hybrids at the Belle Isle Aquarium <i>Richard Kik IV</i>	Lake Sturgeon Recovery Efforts in the Upper Mississippi River <i>Quinton Phelps</i>	Population Genomics and Local Adaptation of Invasive Sea Lamprey (<i>Petromyzon marinus</i>) in the Great Lakes <i>Trevor Krabbenhoft</i>
11:00 AM	Best Management Practices for Reservoir Fish Habitats <i>Leandro E. Miranda</i>	Population Genetics of Bowfins (Amiidae) Across the Laurentian Great Lakes and Carolinas <i>Madeline Clark</i>	Age Structure of Atlantic and Shortness Sturgeon in the Cooper River Using the Minimally Invasive Pectoral Fin Ray <i>Victoria Ruddle</i>	Phylogenetic Relationships Between the Members of the Genus <i>Notropis</i> (Family Cyprinidae) Using Cytochrome b and Cytochrome c Oxidase Subunit I <i>Ryan Vazquez</i>

Schedule of Oral Presentations—Monday, August 22

Room	Atlanta	Chicago A	Chicago B	Chicago C
Time	Reservoir Fisheries Habitat Restoration I	Angling for Dinosaurs: Status and Future Study of the Ecology, Conservation and Management of Ancient Fishes (Symposium)	Sturgeon and Paddlefish	Genetics
11:20 AM	Development of a National Reservoir Database of Geographical, Physical, and Morphological Metrics for Classification and Discrimination for Fisheries Habitat Assessment <i>Kirk Rodgers</i>	Connecting the Spots: Life History and Ecology of the Spotted Gar <i>Lepisosteus Oculatus</i> from an Oklahoma Reservoir <i>Bryan Frenette</i>	Shovelnose Sturgeon Population Attributes in the Cedar River, Near Mt. Vernon, IA <i>Kyle Bales</i>	Genetic Management of the USFWS Lnfh Pilot Peak Strain Brood Stock of Lahontan Cutthroat Trout Used in Recovery Activities in the Western Basin Gmu <i>Mary M. Peacock</i>
11:40 AM	Lunch Break			
12:40 PM				
				Global Importance and Threats to Floodplain Fisheries
1:00 PM	Potential Use of Remotely Sensed Data for Indexing Fish Habitat in Lakes and Reservoirs: Faster, Cheaper, Better? <i>Rebecca M. Krogman</i>	Development of a Stage- Specific Floodplain Inundation Model to Predict Suitable Spawning Habitat Availability for Assessing Alligator Gar Recruitment Success <i>Clint Robertson</i>	Sturgeon and Paddlefish Migration: Evidence to Support the Need for Inter-Jurisdictional Management <i>Sara Tripp</i>	Confronting centuries of change: a synopsis of restoration challenges for Midwestern Rivers <i>Jason DeBoer</i>
1:20 PM	Evaluating Effectiveness of Side Scan Sonar in Assessing Littoral Habitat Diversity in Arizona Reservoirs <i>Amberle Jones</i>	Juvenile Alligator Gar Movement Patterns in a Disconnected Floodplain Habitat in Southeast Missouri <i>Levi Solomon</i>	Lake sturgeon (<i>Acipenser fulvescens</i>) of the upper St. Lawrence River – Resurgence, distribution, and habitat associations <i>John Casselman</i>	Floodplain Ecosystem Productivity on a Large Restricted River: Warm Season Flooding on the Mississippi <i>Molly Sobotka</i>
1:40 PM	Testing Hypotheses Linking Coarse Woody Habitat, Fish Populations, and Food Webs in Experimental Ecosystems <i>Corey S. DeBoom</i>	Movement Patterns and Home Range Fidelity of Bowfin in Oneida Lake, New York <i>James R. Jackson</i>	Movement, Habitat Selection, and Commercial Harvest of Paddlefish in Lake Dardanelle, Arkansas <i>Adam Geik</i>	Development and Potential Use of Broad-Scale Inundation Metrics to Evaluate the Role of Floodplain Inundation on Fishes in the Lower Missouri River <i>Kristen Bouska</i>

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August 22

Schedule of Oral Presentations—Monday, August 22

Monday August 22	Room	Atlanta	Chicago A	Chicago B	Chicago C
	Time	Reservoir Fisheries Habitat Restoration I	Angling for Dinosaurs: Status and Future Study of the Ecology, Conservation and Management of Ancient Fishes (Symposium)	Sturgeon and Paddlefish	Global Importance and Threats to Floodplain Fisheries
	2:00 PM	Towards a Predictive Framework of Habitat Enhancement <i>Brian Graeb</i>	Growth and Ecology of Bowfin (<i>Amia calva</i>) in Green Bay, Lake Michigan <i>Collin Moratz</i>	Natal Origin and Movement Patterns of Paddlefish within the Mississippi River Basin <i>Ryan Hupfeld</i>	Exploratory Analysis of Hydrograph Parameters for Rio Grande Silvery Minnow Spawning, Recruitment, and Population Viability <i>Michael Porter</i>
	2:20 PM	Changes in Largemouth Bass Growth, Condition, and Behavior in Response to a Large-Scale Habitat Enhancement in an Aging Reservoir <i>Chance Kirkeeng</i>	Utility and Precision of Four Hard Structures Used to Estimate Age of Spotted, Shortnose, and Longnose Gars <i>Sarah Huck</i>		A Systematic Evaluation of Flood Pulse Effects on 22 Exploited Fish Taxa of Amazonian River-Floodplains <i>Jesse Olsen</i>
	2:40 PM	Effects of Structural and Spatiotemporal Factors on Fish Use of Artificial Habitat <i>Daniel Daugherty</i>	Alligator Gar in Texas' Coastal Zone: Long-Term Trends and Environmental Influences <i>Daniel Daugherty</i>		Demise of the Mekong Delta: Death By a 1000 Cuts <i>Ian G. Cowx</i>
	3:00 PM	Break			
				Sampling Strategies	
	3:20 PM	Creating Fish and Wildlife Habitat in New Florida Reservoir <i>Dustin Everitt</i>	Conservation, Management, and Restoration of Alligator Gar in Alabama <i>David Armstrong Jr.</i>	Fish Avoidance of Hydroacoustic Research Vessels in Lake Erie <i>Patrick Kocovsky</i>	Floods and Fish Migration; A Fishery's Response to Flood Management <i>Sui Chian Phang</i>
	3:40 PM	Evaluating Fisheries Habitat Improvements in a Newly Flooded Reservoir <i>Brad Fontaine</i>	Modeling the Responses of Alligator Gar Populations to Harvest: Implications for Meeting the Needs of a Diverse Angling Constituency <i>Nathan Smith</i>	Subsampling Stations with High Sea Scallop Density from Video Surveying Techniques <i>Kyle Cassidy</i>	Floodplain Connectivity, and Ecological Blessing or a Curse <i>Mark Hempel</i>
	4:00 PM	Artificial Habitat in Hatcheries and Reservoirs, Increasing Growth, Survival and Reproduction <i>David Ewald</i>	Research and Revelations in Avant-Gar(de) Eco-Writing <i>Mark Spitzer</i>	Accounting for Sampling Uncertainty in Species Apportionment of Hydroacoustic Data <i>Mark R. DuFour</i>	Use of a Backwater Lake with Restored Lateral Hydrologic Connectivity By Invasive Bighead and Silver Carp <i>Alison Coulter</i>

Schedule of Oral Presentations—Monday, August 22

Room	Atlanta	Chicago A	Chicago B	Chicago C
Time	Reservoir Fisheries Habitat Restoration I	Angling for Dinosaurs: Status and Future Study of the Ecology, Conservation and Management of Ancient Fishes (Symposium)	Sampling Strategies	Global Importance and Threats to Floodplain Fisheries
4:20 PM	Evaluating Degradation and Temporal Effectiveness of <i>Juniperus Ashei</i> Used As Fish Habitat in a Texas Hill Country Reservoir <i>Marcos J. De Jesus</i>	Discussion <i>Solomon David</i>	Electrical Threshold Parameters for Immobilization of Nile Tilapia <i>Jan Dean</i>	Expectations and Insights about Large River Floodplain Restorations: Floods, Invasive Species and Stakeholder Tradeoffs <i>Andrew F. Casper</i>
4:40 PM			Understanding How Standardized Spring Electrofishing Surveys Index Reservoir Largemouth Bass Density and Size Structure <i>Stephen Tyszko</i>	Discussion

Monday
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Schedule of Oral Presentations—Monday, August 22

Monday August 22	Room	Chouteau A	Chouteau B	Empire A	Empire B
	Time	Best Student Papers and Posters (Symposium)	Cooperative Fisheries Research I	Fisheries in the “Scapes”	PSAT Challenges and Solutions
	9:40 AM	Lake Sturgeon Movements after Passage Upstream of Two Hydroelectric Dams on the Menominee River, Wisconsin-Michigan <i>Joshua Schulze</i>	A Framework for Cooperative Research and Management <i>Richard S. McBride</i>	From the Land to the Sea: What Can Landscape Ecology Do for the Study of Waterscapes? <i>Kimberly With</i>	An Overview of the Argos System <i>Thomas Gray</i>
	10:00 AM	Inter-Individual Differences in Stress Responsiveness Drive Vulnerability to Angling in Largemouth Bass <i>Michael Louison</i>	Cooperative Research at the Northwest Fisheries Science Center: Improving Fisheries Management through Scientific Partnerships <i>Keith L. Bosley</i>	The Need for Relevant Hydrologic and Environmental Data for Studies of Freshwater Species Distributions and Diversity <i>Jason Knouft</i>	Tagging Atlantic Salmon with Psats in West Greenland <i>Mark D. Renkawitz</i>
	10:20 AM	Using Occupancy Modeling to Improve the Accuracy of Electrofishing Abundance Estimates for Riverine Smallmouth Bass <i>Robert Mollenhauer</i>	Cooperative Research in the Gulf of Mexico, Providing Data for Stock Assessments <i>Linda Lombardi</i>	Mobile Organisms in the ‘Scape’: Patterns, Consequences, and Challenges <i>Martha Mather</i>	Inferring Marine Distribution of Adult Atlantic Salmon Using a Hidden Markov Model <i>John Fredrik Strøm</i>
	10:40 AM	Guild Based Habitat Use and Environmental Drivers of Fish Community Change in the Upper Mississippi River System <i>Christopher Schwinghamer</i>	Cooperative Fisheries Research and Management in Missouri’s Big Rivers <i>Dave Herzog</i>	Effective Aquatic Conservation Requires Fisheries Research for the “Scape” <i>Jason Luginbill</i>	Getting a Bigger Picture: Combining Acoustic and Satellite Telemetry to Document Migration and Habitat Use of Immature Female Blue Sharks (<i>Prionace glauca</i>) <i>Fred Whoriskey</i>
	11:00 AM	Relationships Among Biotic Indices and Their Responses to Ecological Gradients in Least-Disturbed Ozark Streams <i>Jacob Schwoerer</i>	50 Years of Collaboration: The National Marine Fisheries Service Cooperative Shark Tagging Program <i>Brian Gervelis</i>	Big River Fisheries in the ‘Scapes’ <i>Dave Herzog</i>	Development and Validation of an Hmm-Based Geolocation Method Using Archival Tagging Data for Atlantic Cod <i>Chang Liu</i>
	11:20 AM	Break		Viewing Streams As a Habitat Mosaic; Implications for Riverscape Ecology and Stream Conservation <i>Sean Hitchman</i>	Assessing the Accuracy of Light-Based Underwater Positioning Algorithms Using Data from ARGOS-Tracked Leatherback Sea Turtles <i>Rémy Lopez</i>
	11:40 AM	Lunch Break			

Schedule of Oral Presentations—Monday, August 22

Room	Chouteau A	Chouteau B	Empire A	Empire B
Time	Best Student Papers and Posters (Symposium)	Cooperative Fisheries Research I	Fisheries in the “Scapes”	PSAT Challenges and Solutions
12:40 PM	Physiological Differences in Largemouth Bass Populations from Thermally Influenced Powerplant Cooling Reservoirs Suggest Rapid Adaptation to Increased Thermal Regimes <i>Dalon White</i>	The Importance of Stakeholder Collaboration to Marine Fisheries Research in Mississippi <i>Jeremy M. Higgs</i>		
1:00 PM	Using Food Web Modeling to Determine Effects of Increased Exploitation on Invasive Carps in the Middle Mississippi River <i>Nick Kramer</i>	Collaborative Is the New Cooperative: An Example from Cod Spawning Research in the Gulf of Maine <i>Christopher McGuire</i>	Effects of Riparian Patch Structure on Cumulative Network Thermal Regimes <i>Valerie Ouellet</i>	Assessing Movement of Adult Silver Carp and Bighead Carp in the Upper Illinois Waterway System Using GPS Satellite and Radio Telemetry <i>Andrew Mathis</i>
1:20 PM	Habitat Use of Macrhybopsis Chubs and Population Structure of Shoal Chub in the Upper Mississippi River Basin <i>Sarah Gaughan</i>	Using Socio-Economic and Fisheries Involvement Indices to Understand Alaska Fishing Community Well-Being <i>Stephen Kasperski</i>	Banded Sculpin (<i>Cottus carolinae</i>) Life History Trait Variation Across a Stream Size Gradient <i>Amy Gebhard</i>	Determining Location from Pop-up Satellite Archival Transmitters When Earth Main Field Geomagnetic Data Is Insufficient: A Case Study with Lake Sturgeon in Eastern Lake Erie <i>Lori Davis</i>
1:40 PM	Relation of Intersex and Fish Health to Contaminants in Riverine Fishes <i>Casey A. Grieshaber</i>	The Great Lakes to Gulf Observatory – Facilitating the Progression of Data to Knowledge to Policy <i>Edward Kratschmer</i>	Effects of Large Wood and Log Jams on Eastern Slope Rocky Mountain Trout Populations <i>Adam Herdrich</i>	Using Pop-up Satellite Tags to Uncover Bathymetric and Environmental Habitat Selection in Lake Trout Morphotypes in Lake Superior <i>Frederick Goetz</i>
2:00 PM	Effects of Habitat Rehabilitation Activities on Fish Assemblages and Populations in the Kootenai River, Idaho <i>Philip Branigan</i>	Collaboration to Address Community Change: The Bass-Walleye Project in Wisconsin <i>Daniel Isermann</i>	Do Light Levels Affect the Movement of Topeka Shiner and Other Prairie Stream Fishes through Long Box Culverts? <i>Britney Mosey</i>	Methods for Successful Recovery of Pop-up Satellite Tags: Finding a Needle in a Haystack <i>Michael Seider</i>

**Monday
August 22**

Schedule of Oral Presentations—Monday, August 22

Monday August 22	Room	Chouteau A	Chouteau B	Empire A	Empire B
	Time	Best Student Papers and Posters (Symposium)	Cooperative Fisheries Research I	Fisheries in the “Scapes”	PSAT Challenges and Solutions
	2:00 PM	Effects of Habitat Rehabilitation Activities on Fish Assemblages and Populations in the Kootenai River, Idaho <i>Philip Branigan</i>	Collaboration to Address Community Change: The Bass-Walleye Project in Wisconsin <i>Daniel Isermann</i>	Do Light Levels Affect the Movement of Topeka Shiner and Other Prairie Stream Fishes through Long Box Culverts? <i>Britney Mosey</i>	Methods for Successful Recovery of Pop-up Satellite Tags: Finding a Needle in a Haystack <i>Michael Seider</i>
	2:20 PM	A Half-Moonlight Feast: Trophic Function of Postlarval Amphidromous Goby Recruitment in Caribbean Freshwater-Marine Ecotones <i>Augustin C. Engman</i>	Estimation of Survival and Run Timing of Adult Spring/Summer Chinook Salmon from the Columbia River Estuary to Bonneville Dam: A Cooperative Effort Between NOAA Fisheries and Columbia River Commercial Fishermen <i>Michelle Rub</i>	Larval Fish Communities Differ Among Great Lakes Rivermouths <i>Jeffrey S. Schaeffer</i>	Marine Movements of Dolly Varden in Northern Alaska, Evaluated Using Satellite Telemetry <i>Brendan Scanlon</i>
	2:40 PM	Break		Islands in the Ice Stream: Were Spawning Habitats for Native Salmonids in the Great Lakes Created By Paleo-Ice Streams? <i>Stephen C. Riley</i>	Oceanic Movement, Behavior and Mortality of Chinook Salmon Off Alaska, Elucidated with Pop-up Satellite Tags <i>Andrew Seitz</i>
	3:00 PM	Hybridization and Replacement of Roanoke Bass with Invasive Rock Bass in Virginia: A Genetic Analysis of the Problem <i>Jackman Eschenroeder</i>	Integrating Fishermen's Knowledge with Empirical Data: The Case of Cod (<i>Gadus morhua</i>) Spawning Groups and Alosines <i>Edward Ames</i>	Break	
	3:20 PM	Environmentally-Driven Fluctuations in Condition Factor of Adult Gulf Menhaden (<i>Brevoortia patronus</i>) in the Northern Gulf of Mexico <i>Grant Adams</i>	The Eel Passage Research Center: Bi-National Collaboration at the Interface of Research, Resource Management, and Regulatory Compliance <i>Paul T. Jacobson</i>	Concentrated Animal Feeding Operations and Urban Effects in Nitrogen Isotopic Signatures of Fish in a Coastal Oligohaline Estuary <i>Jason J. Clermont</i>	The Use of Geomagnetic Field Strength Measurements to Produce Geo-Position Estimates for PSAT Tagged Marine Animals Beyond the Euphotic Zone <i>Marco Flagg</i>

Schedule of Oral Presentations—Monday, August 22

Room	Chouteau A	Chouteau B	Empire A	Empire B
Time	Best Student Papers and Posters (Symposium)	Cooperative Fisheries Research I	Fisheries in the “Scapes”	PSAT Challenges and Solutions
3:40 PM		The Influence of a Cooperatively Developed Portside Sampling and Bycatch Communication Program on Fisheries Management Policies” <i>Bradley Schondelmeier</i>	Can Freshwater Rivers and Offshore Reefs Contribute to the Resiliency of a Productive Estuarine Sport Fishery in Florida? <i>Ross Boucek</i>	Migratory Behavior for Black Marlin (<i>Istiompax indica</i>) and Blue Marlin (<i>Makaira nigricans</i>) in Northwestern Pacific Ocean <i>Wei-Chuan Chiang</i>
4:00 PM		Cooperative Research to Evaluate and Improve a Potential Incidental Catch Reduction Strategy <i>Sara Turner</i>	Understanding Spatial Linkages Between Terrestrial and Coastal Systems: Improving Conservation of Coastal Habitats <i>Janet Hsiao</i>	Utilization of Psat Technology in the Northern Indian Ocean: Hurdles and Prospects <i>Kumar Nimit</i>
4:20 PM		Using Collaborative Research to Better Manage the Nova Scotian Sea Cucumber Resource <i>N. David Bethoney</i>	Operationalizing Riverscapes <i>Joseph Smith</i>	
4:40 PM		NOAA Fisheries Cooperative Research Program <i>Mark Chandler</i>	Panel Discussion	

Monday
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Schedule of Oral Presentations—Monday, August 22

Monday August 22	Room	Empire C	Exhibit Hall B	New York A	New York B
	Time	Climate Change Effects on Inland Fish	No sessions scheduled in this room on Monday	Ecological Flow Science	Grass Carp Regulation and Management
	9:40 AM	Climate Change Effects on North American Inland Fish Physiology, Populations, and Assemblages <i>Abigail J. Lynch</i>		Ecological Water Science, Law, Policy, and Awareness: Instream Flow and Water Level Conservation - 50 Years of Challenges and Progress <i>Christopher C. Estes</i>	Micra's Recommendation for a National Policy Strategy for Grass Carp <i>Greg Conover</i>
	10:00 AM	Global Synthesis of Climate Change Effects on Inland Fish <i>Bonnie Myers</i>		Ups and Downs in Negotiating Stream Flow Management at the Taum Sauk Pumped Storage Project <i>Del Lobb</i>	Grass Carp Distribution and Status in the US <i>Pam Fuller</i>
	10:20 AM	Assessing Climate Impacts Based on Observed Fish Responses to Stream Temperature and Flow Metrics <i>Nicholas Sievert</i>		Developing a Baseline for Flow Releases below a Water Supply Reservoir on an Ungaged Stream <i>Jason Persinger</i>	Current Status of Reproducing Populations of Grass Carp in the United States <i>Duane Chapman</i>
	10:40 AM	Fish Trophic Interactions As Indicators of Climate Change in the Great Lakes <i>Richard Kraus</i>		Longitudinal Differences in Stream Habitat and Fish Assemblages Downstream of a Hydropeaking Dam <i>Brett Landwer</i>	Results of a U.S. National Ecological Risk Assessment for the Grass Carp <i>Michael Hoff</i>
	11:00 AM	Climate Change As a Driver of the Homogenization of New York's Stream Fish Fauna <i>James R. Jackson</i>		Development of a Stage-Specific Floodplain Inundation Model at a Large River Basin Scale: Comparison of Methods Based on Best Available Data <i>Karim Aziz</i>	Status of Grass Carp in the Canadian Waters of the Great Lakes <i>Becky Cudmore</i>
	11:20 AM	Climate Change and Flow Regulation Alter Fish Community Structure through Species-Specific Effects on Reproductive Phenology <i>Trevor Krabbenhoft</i>		Relationship Between Base Flow and Fish Communities within Karst Spring Complexes <i>Cody Craig</i>	The Measured Ecological Impact of Grass Carp <i>Marion Wittmann</i>
	11:40 PM	Lunch Break			
	12:40 PM				

Schedule of Oral Presentations—Monday, August 22

Room	Empire C	Exhibit Hall B	New York A	New York B
Time	Climate Change Effects on Inland Fish	No sessions scheduled in this room on Monday	Ecological Flow Science	Grass Carp Regulation and Management
1:00 PM	Understanding and Predicting Heterogeneous Thermal Responses of Inland Waters to Climate Warming <i>Jordan Read</i>		Using Existing Data to Examine Fish Community Changes Due to Stream Flow Alterations <i>Emily Tracy-Smith</i>	A Synopsis of the National Triploid Grass Carp Inspection and Certification Program <i>William Wayman</i>
1:20 PM	An Examination of Costs and Benefits for Capturing Meaningful Hydro-Geomorphic Criteria for Aquatic Biota in Rivers <i>Garth Lindner</i>		The Relationships Between Flow Alteration and Fish-Trait Combinations in a Large Great Plains River <i>Shannon K. Brewer</i>	Implementing a Triploid Grass Carp Program in Illinois <i>Steve Shults</i>
1:40 PM	National and Regional Data Assets and Needs to Help Assess Climate Impacts on Fish <i>Daniel Wieferich</i>		Spatial Auto-Correlation of Fish Traits Across Hydrologic Regimes and Implications for Developing Ecological-Flow Relationships <i>Lindsey Bruckerhoff</i>	Grass Carp Management and Regulation in Kansas <i>Doug Nygren</i>
2:00 PM	Can We Get a Pulse? Data Needs to Detect Climate Change Impacts on Fish Populations <i>Daniel B. Hayes</i>		The Influence of Drought on Flow-Ecology Relationships in Ozark Highland Streams <i>Daniel Magoulick</i>	A Review of Grass Carp in Iowa: Commercial Harvest Trends, Vegetation Response after Lake Renovation, and Recent Efforts Regarding Policies and Rules <i>Kim Bogenschutz</i>
2:20 PM	Agency Adaptation Strategies and Inland Recreational Fishers Response to Climate Change <i>Craig Paukert</i>		The Role of Hydrology, Water Quality and Temperature in Determining Juvenile Atlantic Salmon Population Status <i>Thomas Worthington</i>	Minnesota's Efforts to Prevent Grass Carp Establishment <i>Nick Frohnauer</i>
2:40 PM	On the Front Lines: How the Florida Fish and Wildlife Commission Adapts to Climate Change <i>Robert Glazer</i>		Exploring Relationships Between Flow Variability and Low Flow Occurrence and Fish Assemblages in the Susquehanna River Basin <i>Brianna Hutchison</i>	Grass Carp and Neighborly Relations in Lake Erie <i>Tammy Newcomb</i>
3:00 PM	Break			

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Schedule of Oral Presentations—Monday, August 22

Monday August 22	Room	Empire C	Exhibit Hall B	New York A	New York B
	Time	Climate Change Effects on Inland Fish	No sessions scheduled in this room on Monday	Ecological Flow Science	Grass Carp Regulation and Management
	2:20 PM	Agency Adaptation Strategies and Inland Recreational Fishers Response to Climate Change <i>Craig Paukert</i>		The Role of Hydrology, Water Quality and Temperature in Determining Juvenile Atlantic Salmon Population Status <i>Thomas Worthington</i>	Minnesota's Efforts to Prevent Grass Carp Establishment <i>Nick Frohnauer</i>
	2:40 PM	On the Front Lines: How the Florida Fish and Wildlife Commission Adapts to Climate Change <i>Robert Glazer</i>		Exploring Relationships Between Flow Variability and Low Flow Occurrence and Fish Assemblages in the Susquehanna River Basin <i>Brianna Hutchison</i>	Grass Carp and Neighborly Relations in Lake Erie <i>Tammy Newcomb</i>
	3:00 PM	Break			
	3:20 PM	Can Resilience Concepts Improve Management and Restoration? a Resilience Assessment of the Upper Mississippi River System <i>Kristen Bouska</i>		Addressing Flow Regime at a Regional Scale in the Southeast <i>Jessica Graham</i>	Population Demographics and Early Life History of Grass Carp in the Upper Mississippi River <i>Christopher J. Sullivan</i>
	3:40 PM	Managing for Smallmouth Bass in a Changing Climate <i>Cindy Chu</i>		Opportunities for Protecting and Restoring Environmental Flows and Water Levels in Texas <i>Kevin Mayes</i>	Grass Carp Population Dynamics in the Middle Mississippi River <i>Michael Wolf</i>
	4:00 PM	Impact of Climate Variability on the Spawning Migrations of American Shad in the Connecticut River – a Multidecadal View <i>Jason Boucher</i>		Validation of an Environmental Flow Recommendation in Texas <i>David Ruppel</i>	A Novel Field Technique to Assess Ploidy in Introduced Grass Carp (<i>Ctenopharyngodon idella</i>) <i>Michael Durkalec</i>
	4:20 PM			Protecting Aquatic Life from Effects of Streamflow Alteration <i>Jonathan Kennen</i>	Grass Carp Industry Perspective: Impacts and Consideration <i>Mike Freeze</i>
	4:40 PM			History of AFS Advocacy for Instream Flow, Water Level Conservation and Policy Development and What's Next <i>Dennis Riecke</i>	Panel Discussion

Schedule of Oral Presentations—Monday, August 22

Room	Van Horn B	Van Horn C
Time	Sea Grant's Role in Research, Outreach and Building Partnerships along the Mississippi River	MSE, Assessment, and Uncertainty
9:40 AM	Keynote Presentation – Fisheries Management from the Great Lakes to the Gulf: Sea Grant's Role in Research, Outreach and Building Partnerships Along the Mississippi River <i>Robert Twilley</i>	Using Time-Varying Asymptotic Length and Body Condition of Top Piscivores to Indicate Ecosystem Regime Shift in the Main Basin of Lake Huron: A Bayesian Hierarchical Modeling Approach <i>Ji X. He</i>
10:00 AM	Bridging the Gap: The Role of University Centers in Moving Nutrient Science to Decision Making <i>Brian Miller</i>	Simulation-Based Evaluation of Assessment Approaches for Intermixing Fish Populations <i>Matthew Vincent</i>
10:20 AM	Sea Grant's Involvement in Mississippi River Valley Collaborative Efforts <i>Michael Liffmann</i>	Sensitivity of a Multisystem Length Limit Model <i>Andrew Shamaskin</i>
10:40 AM	Wisconsin Sea Grant's Efforts to Stop Aquatic Hitchhikers! <i>Titus Seilheimer</i>	Improved State-Space Models for Pacific Salmon Stock-Recruitment Analysis <i>Zhenming Su</i>
11:00 AM	The Duality of Asian Carp Monitoring: Protecting the Great Lakes While Providing Insight into Fish Species Distribution and Abundance in the Chicago Area Waterway System <i>Tristan Widloe</i>	Conservation and Yield Performance of Harvest Control Rules for the Transboundary Pacific Hake Fishery in U.S. and Canadian Waters <i>Allan Hicks</i>
11:20 AM	Louisiana Master Farmer Program: Conservation Stewardship with Education, Demonstration, and Implementation <i>Ernest Girouard</i>	Management Strategy Evaluation to Compare Sampling Programs in the Southeastern U.S <i>Michael J. Wilberg</i>
11:40 AM	Lunch Break	
12:40 PM		
1:00 PM	Ohio's Clean Marinas Program: Impacting Water Quality through Outreach <i>Sarah Orlando</i>	Multiple Models for Marine Fisheries Management: What Fisheries Science Can Learn from Other Disciplines <i>Howard Townsend</i>
1:20 PM	Land Grant Universities in Mississippi River Basin Collaborative Response to Hypoxia in Gulf of Mexico <i>John Westra</i>	Performance of Catch-Only Models at Providing Management Guidance for Unassessed Data-Limited Fish Stocks <i>Jessica Walsh</i>
1:40 PM	A Unique Solution to a Common Problem - Solving Agricultural Runoff into Two Great Water Bodies of the US <i>Robert Kröger</i>	Quantitative Decision-Support Tools for Dam Passage Performance Standards in the Northeast US <i>Dan Stich</i>
2:00 PM	Discussion	Long Term O&M Cost Benefit Analysis of Implementing 316(b) Compliant Alternatives <i>Dagoberto Solis</i>

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August 22**

Schedule of Oral Presentations—Monday, August 22

Monday August 22	Room	Van Horn B	Van Horn C
	Time	Sea Grant's Role in Research, Outreach and Building Partnerships along the Mississippi River	MSE, Assessment, and Uncertainty
	1:20 PM	Land Grant Universities in Mississippi River Basin Collaborative Response to Hypoxia in Gulf of Mexico <i>John Westra</i>	Performance of Catch-Only Models at Providing Management Guidance for Unassessed Data-Limited Fish Stocks <i>Jessica Walsh</i>
	1:40 PM	A Unique Solution to a Common Problem - Solving Agricultural Runoff into Two Great Water Bodies of the US <i>Robert Kröger</i>	Quantitative Decision-Support Tools for Dam Passage Performance Standards in the Northeast US <i>Dan Stich</i>
	2:00 PM	Discussion	Long Term O&M Cost Benefit Analysis of Implementing 316(b) Compliant Alternatives <i>Dagoberto Solis</i>
		EFH Science into Management	
	2:20 PM	Looking Ahead for Habitat Assessments in NOAA Fisheries <i>Stephen Brown</i>	Efficiency of the Maine Lobster Fishery <i>Mackenzie Mazur</i>
	2:40 PM	Revising the Essential Fish Habitat Conservation Areas of the Pacific Coast Groundfish Fishery Management Plan <i>John Stadler</i>	Discussion
	3:00 PM	Break	
	3:20 PM	Using Acoustic Telemetry to Map Atlantic Cod Spawning Activity and Inform Fishery Management in the Gulf of Maine <i>Douglas Zemeckis</i>	
	3:40 PM	Exploring Essential Fish Habitat Delineation for Atlantic Highly Migratory Species – Methods, Challenges, and Future Research Needs <i>Jennifer Cudney</i>	
	4:00 PM	Assessing Essential Fish Habitat for a Marine Pelagic Fish <i>Stephen Brandt</i>	
	4:20 PM	Bioeconomic Optimization of Hawaiian Bottomfish Restricted Fishing Areas: An Application of Habitat-Based Species Distribution Modeling <i>Zack Oyafuso</i>	
	4:40 PM		

Schedule of Oral Presentations—Tuesday, August 23

Room	Atlanta	Chicago A	Chicago B	Chicago C
Time	Reservoir Fisheries Habitat Restoration II	Freshwater Fisheries Management I	Weithman Legacy Symposium	Movement and Aquatic Organism Passage I
9:40 AM	Alternative Fish Habitat Funding within the Community: A Partnership with Shell Appalachia Ben Page	Net Contribution of Fingerling Stocking to Walleye Abundance in Northern Wisconsin Lakes Dan Dembkowski	A. Stephen Weithman – His Legacy Remembered Vince Travnicek	Temporal Shift in Sheephead Movement Patterns in Texas in 20th Century Gary C. Matlock
10:00 AM	Small Reservoirs Can Still Present Large Rehabilitation Challenges! Caleb Huber	Stock Structure, Dynamics, and Demographics of Walleyes Spawning in Tributaries to Green Bay Daniel Isermann	Ecosystem-Based Fisheries Management: The 2016 Context for New England and Mid-Atlantic Fishery Management Council and Stakeholder 2013 Perspectives Ingrid S. Biedron	Environmental Niche Models: Distribution and Seasonal Movements of the Ocean Sunfishes Natasha Phillips
10:20 AM	Largescale Habitat Improvement on Table Rock Lake Michael J. Allen	Estimating Genetic Diversity Levels and Sampling Effort Required for Wisconsin's Walleye Propagation Program Michael Vaske	Using Fish Consumption Data to Estimate Inland Fisheries Harvest So-Jung Youn	A Bayesian Model to Estimate Movement Rates from Historical Tagging Data and Catch per Unit Effort Data for Atlantic Tropical Tunas Michelle Sculley
10:40 AM	Installation and Evaluation of Fish Habitat Structures in Bull Shoals Lake, Missouri Nathan Recktenwald	Identifying Recruitment Bottlenecks for Age-0 Walleye Sander Vitreus in Northern Wisconsin Lakes Jason Gostiaux	A Mixed Logit Model Approach to Investigate Trout Angler Preferences for Fishing Site Attributes Scott Knoche	Multi-Scale Examination of Estuarine Habitat Use and Migration of Southern Flounder (<i>Paralichthys lethostigma</i>) with Implications for Novel Fisheries Management Approaches Lisa Hollensead
11:00 AM	Sticks and Stones: A Cooperative Effort to Increase Fish Habitat in Smithville Lake, Missouri Eric Dennis	Assessment of Growth and Relative Survival of Diploid and Triploid Saugeye in Kansas Impoundments Jeff Koch	2007 Weithman Winner: Implications of Reduced Stocking Frequencies on Fishing Quality in the Arkansas Urban Fishing Program Tom Lang	Oceanographic and Climate Effects on Migratory Propensity of a Hawaiian Freshwater Fish Heidi Heim-Ballew
11:20 AM	Winter Brushpile Installation in Small Missouri Reservoirs Tory Mason	Vertical Habitat Use of Walleye Conflicts with Expectations from Gill Net Surveys Ann Marie Gorman		Movement of Tagged Gizzard Shad in a Large Missouri River Reservoir Hilary Meyer
11:40 AM	Lunch Break			
12:00 PM				

**Tuesday
August 23**

Schedule of Oral Presentations—Tuesday, August 23

Room	Atlanta	Chicago A	Chicago B	Chicago C
Time	Reservoir Fisheries Habitat Restoration II	Freshwater Fisheries Management I	Weithman Legacy Symposium	Movement and Aquatic Organism Passage I
11:20 AM	Winter Brushpile Installation in Small Missouri Reservoirs <i>Tory Mason</i>	Vertical Habitat Use of Walleye Conflicts with Expectations from Gill Net Surveys <i>Ann Marie Gorman</i>		Movement of Tagged Gizzard Shad in a Large Missouri River Reservoir <i>Hilary Meyer</i>
11:40 AM	Lunch Break			
12:00 PM				
			Blue Catfish Management & Opportunism	
1:00 PM	Engaging Anglers in Missouri through Mobile Apps and GIS Technologies <i>Alex Prentice</i>	Effects of Turbidity on Foraging of Black and White Crappie <i>Sara Andree</i>	Unwanted Guests and Stomach Contents: Trophic Dynamics of Sympatric Native (White Catfish <i>Ameiurus catus</i>) and Non-Native (Blue Catfish <i>Ictalurus furcatus</i>) in Chesapeake Bay <i>Rob Aguilar</i>	Relations of Crappie (<i>Pomoxis</i> spp.) Abundance and Size Structure to Hydrologic Connectivity of Oxbows in the Dale Bumpers White River National Wildlife Refuge, Arkansas <i>Billy Justus</i>
1:20 PM	Building Them Right the First Time: Nebraska's New Reservoir Technical Assistance Program <i>Tony J. Barada</i>	Effect of Elevated Nutrients and Sediments on Growth of Juvenile Black and White Crappies <i>David Bogner</i>	Blue Catfish Gut Contents: An Assessment of Feeding Adaptation in Response to Asian Carp Invasion in the Mississippi River Basin <i>Tad Locher</i>	Watershed Structure and Isolation-By-Distance Drives Genetic Structure of a Dispersal Limited Species, the Rocky Mountain Sculpin (<i>Cottus</i> sp.) <i>Jonathan Ruppert</i>
1:40 PM	Kentucky's Fish Habitat Program: Past, Present, Future <i>Jeremy Shiflet</i>	Elucidating the Mechanisms of Juvenile Fish Recruitment in the Middle Mississippi River <i>Tyler Ham</i>	Omnivory or Piscivory in Non-Native Blue Catfish in Tidal Rivers <i>Jason Emmel</i>	Survival, Movement, and Distribution of Juvenile Burbot in a Tributary of the Kootenai River <i>Zachary S. Beard</i>
2:00 PM	Development of Indiana's Reservoir Enhancement Program through the Creation of a Habitat Enhancement Zone <i>Sandra Clark-Kolaks</i>	Implementation of a 23 Cm Crappie Minimum Length Limit at Two Indiana Impoundments <i>Andrew Bueltmann</i>	Identifying Overall, Seasonal, and Diel Patterns for Reservoir- Wide Distribution of Blue Catfish: Filling Critical Gaps for Fish Ecology and Fisheries Management <i>Kayla Gerber</i>	Exposure to Elevated CO2 Alters Diel Movement Patterns of Largemouth Bass over Short Time Scales <i>Caleb Hasler</i>

Tuesday
August 23

Schedule of Oral Presentations—Tuesday, August 23

Room	Atlanta	Chicago A	Chicago B	Chicago C
Time	Reservoir Fisheries Habitat Restoration II	Freshwater Fisheries Management I	Blue Catfish Management & Opportunism	Movement and Aquatic Organism Passage I
2:20 PM		Impact of Water Temperature on the Survival of Angler- and Tournament-Caught Largemouth Bass <i>Kevin R. Keretz</i>	Providing Enhanced Protection for Blue Catfish at Truman Reservoir and Lake of the Ozarks MO <i>Mike Bayless</i>	Movements and Habitat Use of Guadalupe Bass Using Radio Telemetry in the Lower Colorado River, Texas <i>Jessica Pease</i>
2:40 PM		Assessment of Channel Catfish Population Dynamics and Tandem Hoop Nets As a Standard Sampling Method in Tennessee Reservoirs <i>Cole Harty</i>	Correlates of the Whole-System Distribution of a Reservoir Predator (Blue Catfish, <i>Ictalurus furcatus</i>) <i>Martha Mather</i>	Diel and Seasonal Activity of the American Eel (<i>Anguilla Rostrata</i>) in the Upper St. Lawrence River Determined By Acoustic and Radio Telemetry <i>Colleen Burliuk</i>
3:00 PM	Break			
3:20 PM		Behavioral Syndromes and Learned Hook Avoidance in Ambloplites Rupestris <i>Alexis Fedeles</i>	Seasonal and Diel Patterns of Depth and Temperature Distribution of Blue Catfish in Milford Reservoir, KS <i>Joseph Smith</i>	How Changes in Passage Efficiency of Alewife at Main Stem Dams Can Influence Nutrient Dynamics in the St. Croix River, ME <i>Betsy Barber</i>
3:40 PM		Effective Population Control of Invasive Largemouth Bass in Japanese Reservoirs, in Relation to Water Level Management <i>Katsuki Nakai</i>	Recruitment and Population Dynamics of Blue Catfish in the Ohio River <i>Devon C. Oliver</i>	The Fate of Hatchery-Spawned Atlantic Salmon Released into the Penobscot River, ME <i>Joseph Zydlewski</i>
4:00 PM		Physiological Justification for Using Air-Based Degree-Days to Describe Annual Fish Growth <i>Andrew Honsey</i>	Spatiotemporal Variability in Individual Blue Catfish Growth during Introduction and Expansion in Virginia Tidal Rivers <i>Corbin D. Hilling</i>	Migratory Delay of Anadromous River Herring at Anthropogenic Obstacles on a Small Coastal Stream <i>Derrick Alcott</i>
4:20 PM		A Diversified Management Approach Address Heterogeneous Anglers in Recreational Fisheries <i>Brett T. van Poorten</i>	Population Dynamics Variation of Blue Catfish during Its Introduction and Expansion in Virginia Tidal Rivers: A Bayesian Hierarchical Approach <i>Yan Jiao</i>	

**Tuesday
August 23**

Schedule of Oral Presentations—Tuesday, August 23

Room	Atlanta	Chicago A	Chicago B	Chicago C
Time	Reservoir Fisheries Habitat Restoration II	Freshwater Fisheries Management I	Blue Catfish Management & Opportunism	Movement and Aquatic Organism Passage I
4:40 PM		Individual-Based Model Describes Behavioral Feedbacks Between Anglers and Sportfish <i>Nicholas Cole</i>		

Tuesday
August 23

Schedule of Oral Presentations—Tuesday, August 23

Room	Chouteau A	Chouteau B	Empire A	Empire B
Time	140 Character Fisheries Science	Cooperative Fisheries Research II	Angling Participation Symposium I	Release and Discard Mortality Estimation-Tuesday
9:40 AM	The Role of Modern Communications Technology in Marine Science and Conservation <i>David Shiffman</i>	Ecosystem Services and Cooperative Fisheries Research to Address a Complex Fishery Problem <i>Joel Hoffman</i>	Introduction: An Examination into Influencing the Future of Angling Participation to Sustain Conservation Support <i>Tom Lang</i>	Using a Simple Multi-Attribute Rating Technique to Prioritize Release and Discard Mortality Needs <i>Lee Benaka</i>
10:00 AM		Micra's Role in Cooperative Asian Carp Management and Control in the Mississippi River Basin <i>Greg Conover</i>	Angling and the North American Model of Wildlife Conservation <i>J. Wesley Neal</i>	When Dead Fish Keep Swimming: Short-Term Biotelemetry of Walleye and Sauger after Catch and Release <i>Christopher Somers</i>
10:20 AM	Blogs: A New(ish) Niche in the Scientific Communication Ecosystem <i>Jeremy Fox</i>	Cooperative Implementation of Florida's Black Bass Management Plan <i>Allen Martin</i>	Efforts and Vision of the Blue Ribbon Panel on Sustaining America's Diverse Fish & Wildlife Resources <i>Ryan Roberts</i>	Post Release Survival and Behavior of Deep-Dwelling Rockfishes (genus <i>Sebastes</i>) Suffering from Barotrauma: Using Recompression Devices to Reduce Bycatch Mortality <i>Nick Wegner</i>
10:40 AM		Florida's Tarpon Genetic Recapture Study – a Citizen Science Success Story <i>Kathryn Guindon</i>	Cohort driven social change: Understand the broad shift away from hunting and fishing <i>Loren Chase</i>	A Science-Industry Based Partnership to Estimate Discard Mortality and Derive Best Catch-and-Release Guidelines for Haddock in the Gulf of Maine Rod-and-Reel Fishery <i>John Mandelman</i>
11:00 AM	Should You (or your journal) be Tweeting about Your Research? a Quantitative Analysis <i>Brandon Peoples</i>	Incorporating Expertise from the Recreational Fishery to Determine Discard Mortality Estimates for Gray Snapper in a West-Central Florida Estuary and Adjacent Nearshore Gulf of Mexico Waters <i>Kerry Flaherty-Walia</i>	Will the Baby Boom Bust Us? a Consideration of the Impacts on Revenue from an Aging Customer Population <i>Alejandro Farias</i>	Hooking and Handling Mortality of Trout Captured in the Bald Eagle Creek Tournament <i>Robert Carline</i>
11:20 AM	Is Social Media Being Used Effectively to Educate Anglers? <i>Julie Claussen</i>	Evaluating Cooperative Research Longline Vs. Bottom Trawl Survey Results: Improving Stock Assessments <i>Loretta O'Brien</i>	From Across the Pond: Angling participation and angling's social benefits in the UK <i>Adam Brown</i>	Evidence of Low Discard Mortality for a Deep-Water, Demersal IUCN Red List Fish Species Caught Via Hook-and-Line <i>Todd Kellison, PhD</i>

Tuesday
August 23

Schedule of Oral Presentations—Tuesday, August 23

Room	Chouteau A	Chouteau B	Empire A	Empire B
Time	140 Character Fisheries Science	Cooperative Fisheries Research II	Angling Participation Symposium I	Release and Discard Mortality Estimation-Tuesday
11:20 AM	Is Social Media Being Used Effectively to Educate Anglers? <i>Julie Claussen</i>	Evaluating Cooperative Research Longline Vs. Bottom Trawl Survey Results: Improving Stock Assessments <i>Loretta O'Brien</i>	From Across the Pond: Angling participation and angling's social benefits in the UK <i>Adam Brown</i>	Evidence of Low Discard Mortality for a Deep-Water, Demersal IUCN Red List Fish Species Caught Via Hook-and-Line <i>Todd Kellison, PhD</i>
11:40 AM	Lunch Break			Effects of Multiple Capture Events on Estimation of Discard Mortality and Number of Releases in Southeastern US Reef Fishes <i>Jeffrey A. Buckel</i>
12:00 PM				Discard Mortality of Black Crappie in Florida <i>Andrew Schaefer</i>
1:00 PM	Norman the Sturgeon and Other Fish Stories <i>Travis Moore</i>	Gulf of Maine Data-Poor Species Assessments Enhanced By a Cooperative Bottom Longline Survey <i>W. David McElroy</i>	Working Toward a Better Understanding of Angler Behavior Thru Human Dimensions Research <i>Kevin Hunt</i>	
1:20 PM	Using Social Media to Promote and Interact with Anglers for Trophycatch <i>John Cimbaro</i>	Utilizing Local Angler Groups for Dissolved Oxygen Data Collection in Large Highland Reservoirs <i>Paul Port</i>	Net Economic Values for Bass, Trout, and Walleye Fishing <i>Richard Aiken</i>	
		Inland Drivers of Coastal Hypoxia		
1:40 PM	Marlin in the Media: The Benefits of Social Media to Igfa's Billfish Tagging Program <i>Leah Baumwell</i>	Effects of Hypoxia and Co-Stressors on Early Life-Stages of Estuarine Fishes: Examples from NE USA Estuaries <i>R. Christopher Chambers</i>	A Statewide Assessment of Florida Freshwater Anglers: Motivations, Preferences, Attitudes, and Value Orientations <i>Nia Morales</i>	Estimating the Discard Mortality Rate of Sea Scallops Following Capture and Handling in the Commercial Dredge Fishery <i>David Rudders</i>

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Schedule of Oral Presentations—Tuesday, August 23

Room	Chouteau A	Chouteau B	Empire A	Empire B
Time	140 Character Fisheries Science	Inland Drivers of Coastal Hypoxia	Angling Participation Symposium I	Release and Discard Mortality Estimation-Tuesday
2:00 PM	The International Pacific Halibut Commission and Social Media: Lessons Learned from the First 3 Years on Facebook and Twitter <i>Ed Henry</i>	Effects of Sublethal Hypoxia Exposure Recorded in Otoliths of the Ubiquitous Atlantic Croaker (<i>Micropogonias undulatus</i>) in the Northern Gulf of Mexico <i>Matthew Altenritter</i>	Customer Segmentation of Catfish Anglers Using a Survey of Stated Preferences to Guide Management Decisions and Ensure Optimal Customer Service <i>John Taylor</i>	Determining Incidental Discard Mortality of Atlantic Sea Scallops in the Scallop Dredge Fishery in the Mid-Atlantic Bight <i>Eleanor Bochenek</i>
2:20 PM	Hashtag Fish: Garnering Connections Among Peers, the Public, and Conservation <i>Solomon David</i>	Effects of Productivity Gradients on Fish-Community Structure in Lake Erie <i>Casey Yanos</i>	Applying Human Dimensions Insights to Establish Recreational and Conservation Balance for a Trophy Fish Species <i>Corey A. Jager</i>	Evaluating the Condition and Discard Mortality of Winter Skate, <i>Leucoraja Ocellata</i> , Following Capture and Handling in the Sink Gillnet Fishery <i>James Sulikowski</i>
2:40 PM	Face-Booked: The Role of Social Media in Wildlife Law Enforcement <i>Daniel Schepis</i>	Corn & Shrimp: Mississippi Basin Landscape Design for Wildlife, Water Quality and Agriculture <i>Gwen White</i>	Bowfishing Anglers: A Missing Piece of the Angler Recruitment Pie <i>Dustin Martin</i>	Incorporation of Discard Mortality in Walleye Stock Assessment for Saginaw Bay, Lake Huron <i>David G. Fielder</i>
3:00 PM	Break			Development of a Multi-Fish Descending Device in the Mid-Atlantic: Cooperative Barotrauma Research with the Recreational for-Hire Industry <i>Susanna Musick</i>
3:20 PM	How to Maximize Science Communications Resources through Social Media <i>Martha Wilson</i>	Agricultural Producer Motivations for Adopting Conservation Practices for Wildlife and Water Quality in Iowa and Indiana <i>Ajay Singh</i>	Recruitment and Retention of Anglers: Opportunities and Barriers <i>Christian Waters</i>	Impaired Reflexes As a Measure of Delayed Mortality in Recreationally Caught Yellowtail Snapper (<i>Ocyurus chrysurus</i>) <i>Francesca Forrestal</i>
3:40 PM	Trials and Tribulations of Social Media in College Education <i>Donald Orth</i>	Implications of Future Bioenergy Production for Water Quality and Quantity in the Mississippi River Basin <i>Henriette Jager</i>	Do Fish Drive Recreational Fishing Licence Sales? <i>Len Hunt</i>	Tuesday Afternoon Break

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Schedule of Oral Presentations—Tuesday, August 23

Tuesday August 23	Room	Chouteau A	Chouteau B	Empire A	Empire B
	Time	140 Character Fisheries Science	Inland Drivers of Coastal Hypoxia	Angling Participation Symposium I	Release and Discard Mortality Estimation-Tuesday
	4:00 PM	Riding the wave of social: tips and tactics for listening on social media <i>Danielle Brigida</i>	Runoff Risk: A Decision Support Tool for Nutrient Application Timing <i>Dustin Goering</i>	Angler Demographics and Participation at a Leased Fishing Access Site in Texas <i>Greg Cummings</i>	Size-Related Mortality of Largemouth Bass Released at Various Stages in a Tournament <i>J. Warren Schlechte</i>
	4:20 PM	Synthesizing the Roles of Social Media in Fisheries Science: A Call-to-Action <i>Patrick B. Cooney</i>	Restored Oxbows Provide Multiple Benefits for Water and Wildlife <i>Karen Wilke</i>	Catch and Release: The Effectiveness of an Educational Class on Anglers Caught with Fishing Citations <i>Steven Saul</i>	Evaluating the Efficacy of Descender Devices in Increasing the Survival of Deepwater Groupers Using Telemetry <i>Brendan Runde</i>
	4:40 PM	Panel Discussion	Panel Discussion	Combining Actual and Stated Behavior Data to Measure the Economic Impacts of Catch and Release Regulations in a Vulnerable Recreational Fishery <i>Richard Melstrom</i>	The Use of Acoustic Telemetry and Conditional Reasoning to Estimate the Discard Mortality of Atlantic Cod in the Gulf of Maine Recreational Rod-and-Reel Fishery <i>Connor Capizzano</i>

Schedule of Oral Presentations—Tuesday, August 23

Room	Empire C	Exhibit Hall B	New York A	New York B
Time	Hydrology and Nonnative Aquatic Species	Wild Jobs Café <i>Michelle Dobbins, Moderator</i>	Increasing Participation of Minority Groups in Fisheries	Centrarchids in Streams I
9:40 AM	The Illinois Waterway: A View of the Hydrodynamics and Habitat through the Eyes of Bigheaded Carp <i>James Duncker</i>		Introductory Remarks	A Transition of Management Strategies for Native Riverine Black Bass Species <i>Vance Crain</i>
9:50 AM			Introduction of Guests	
10:00 AM	Assessing Spawning and Hatch Locations of Naturally Spawned Grass Carp Eggs in a Great Lakes Tributary <i>Holly Embke</i>	How to Dress for Success	Short Presentations from Accepted Papers	
10:20 AM	Fore- and Back-Casting Recruitment Potential of Grass Carp in the Sandusky River Using Known Recruitment Events <i>Patrick Kocovsky</i>		Panel Discussion	Evaluating the Status and Trends of Smallmouth Bass Populations in Michigan Streams and Rivers <i>Jan-Michael Hessenauer</i>
10:40 AM	Grass Carp Reproduction in Small, Hydrologically Erratic Reservoir Tributaries: Implications for Range Expansions and Establishment of Asian Carps in Novel Habitats <i>Michael Bayless</i>			
11:00 AM	Evaluating Upstream Passage and Associated Movement Patterns of Adult Asian Carp at a Gated Dam on the Illinois River <i>Matthew Lubejko</i>	Resume Review and Interview Tips		Assessing Smallmouth Bass Trophic Position in a Hierarchical River Network Using Stable Isotope Methods <i>Oliver Nettere</i>
11:20 AM	Timing and Hydrological Conditions Associated with Bigheaded Carp Movement Past Navigation Dams on the Upper Mississippi River <i>Jon Vallazza</i>		Concluding Remarks	Population Characteristics, Connectivity and Recruitment Sources of Spotted Bass in Southern Illinois Streams <i>Nicholas Abell</i>
11:40 AM	Lunch Break			

Tuesday
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Schedule of Oral Presentations—Tuesday, August 23

Tuesday August 23	Room	Empire C	Exhibit Hall B	New York A	New York B
	Time	Hydrology and Nonnative Aquatic Species	Wild Jobs Café <i>Michelle Dobbins, Moderator</i>	Increasing Participation of Minority Groups in Fisheries	Centrarchids in Streams I
	1:00 PM	First Reproduction of Asian Carps Revealed in an Artificial Canal Network of Western Europe <i>Marco Milardi</i>	Resume Review and How to Dress for Success		Population and Life-History Characteristics of Two Black Bass Species in the Flint River System, Georgia <i>Steven Sammons</i>
	1:20 PM	Insights into the 2015 Invasion of Mississippi River Tributaries in Arkansas By Young-of- Year Silver Carp (<i>Hypophthalmichthys molitrix</i>) <i>Casey Cox</i>			Using Species Distribution Models to Infer Potential and Restricted Ranges of a Fluvial- Specialist Black Bass Species <i>Andrew T. Taylor</i>
	1:40 PM	Predicting Potential Asian Carp Spawning in the Tributaries and Nearshore of the Canadian Great Lakes Basin <i>Tej Heer</i>			Genetic Relationships of Largemouth Bass from Different Habitats within Coastal Rivers of Northwest Florida <i>Matthew Wegener</i>
	2:00 PM	Assessing Bigheaded Carp on the Southeastern Leading Edge of Their North American Invasion <i>Josey Ridgway</i>			Life History Information of Choctaw Bass <i>Micropterus haiaka</i> , a Newly Described Species of Black Bass <i>Katie Woodside</i>
	2:20 PM	Hydrological Conditions Associated with Bigheaded Carp Spawning in Two Iowa Tributaries to the Upper Mississippi River <i>Kyle Mosel</i>	Interview Tips		
	2:40 PM	Native Congener Richness, Not Abiotic Factors, Predicts Cyprinid Introductions <i>Stephen Midway</i>			Analysis of Factors Influencing Rock Bass Population Dynamics in an Ozark Border Stream <i>Joshua G. Ward</i>
	3:00 PM	Break	Mock Interviewing	Break	Break
	3:20 PM	Success in Lakes and Failure in Streams: The Rusty Crayfish Invasion <i>William Perry</i>		General Fisheries I	Recovery of River Herring <i>Alosa</i> Spp. Influences Smallmouth Bass <i>Micropterus dolomieu</i> Diet and Growth in the Penobscot River, Maine <i>Jonathan Watson</i>

Schedule of Oral Presentations—Tuesday, August 23

Room	Empire C	Exhibit Hall B	New York A	New York B
Time	Hydrology and Nonnative Aquatic Species	Wild Jobs Café <i>Michelle Dobbins, Moderator</i>	General Fisheries I	Centrarchids in Streams I
3:40 PM	Hydrologic Factors Associated with Detection and Occupancy of Riparian Areas By Asian Swamp Eel in the Chattahoochee River System, Georgia <i>Jeffery Johnson</i>		Lampricide Control of Sea Lampreys in the Great Lakes <i>Shawn Nowicki</i>	Long-Term Fish Community Response to a Reach-Scale Stream Restoration <i>Patrick Shirey</i>
4:00 PM	An Overview of Stream Flow Effects on Western Native/Nonnative Fish Interactions <i>Scott A. Bonar</i>		Control of Quagga Mussels with Potash: Trials of Efficacy in Different Source Waters <i>Christine M. Moffitt</i>	A Multifaceted Approach to Guadalupe Bass (<i>Micropterus treculii</i>) Restoration in a Texas Hill Country River <i>Stephan Magnelia</i>
4:20 PM	Consequences of an Altered Hydrologic Regime for Colorado River Fishes in Grand Canyon <i>David Ward</i>		Percent Contribution of Stocked Freeze-Branded Largemouth Bass to Age-1 Year Class in Arkansas Lakes <i>Jeffery Buckingham</i>	Reintroduction of the Extirpated Guadalupe Bass into a Newly Restored Reach of the Upper San Antonio River, Texas <i>Christopher Vaughn</i>
4:40 PM	Hydrological Disturbances Regimes and Their Impacts on Native and Non-Native Fish Communities in Aravaipa Canyon, Arizona <i>Peter Reinthal</i>		Directed Harvest of Asian Carps in Ukraine <i>Dmytro Khrystenko</i>	Success, Failure, or Somewhere in Between: Assessing Genetic Restoration of an Endemic Black Bass Population <i>Paul Fleming</i>

Tuesday
August 23

Schedule of Oral Presentations—Tuesday, August 23

Room	Van Horn B	Van Horn C
Time	Hatchery Fish Biologist... A Career for the Future	No Sessions scheduled in this room on Tuesday
9:40 AM	Charting a New Course for Fisheries Undergraduates in Alaska <i>Trent M. Sutton</i>	
10:00 AM	Fish Hatchery Biologist: A Career for the Future with Texas Parks and Wildlife Department <i>Carl Kittel</i>	
10:20 AM	Knowledge, Skills, and Competencies for a Fish Hatchery Biologist <i>Steve Lochmann</i>	
10:40 AM	Michigan DNR Fish Culture Professionals: What Additional Training Is Desirable? <i>Ed Eisch</i>	
11:00 AM	Texas a&M University Aquaculture/ Fisheries Curriculum <i>Michael Masser</i>	
11:20 AM	Fisheries Science at South Dakota State University – Building on History and Developing the Future in the Preparation of Fisheries Professionals <i>Michael Brown</i>	
11:40 AM	Lunch Break	
12:00 PM		
1:00 PM	Training Future Fish Hatchery Scientists: Three Decades of Experience at the University of Arkansas at Pine Bluff <i>Michael Eggleton</i>	
1:20 PM	High Expectations and Great Opportunities: Changing the Culture of Fish Culture <i>Mike Barnes</i>	
1:40 PM	The Future Across the Interview Table: How Are Fish Hatcheries Hiring to Meet Tomorrow's Needs? <i>Gary Byrne</i>	
2:00 PM	Observations of a New Hatchery Biologist: Lessons Learned and Visions for the Future <i>Jeremy Kientz</i>	
2:20 PM	Preparation of Students As Fish Hatchery Biologists: An Academic Perspective from Auburn University <i>Dennis R. DeVries</i>	
2:40 PM	Developing Skill Sets for a Hatchery Career: What Makes You Marketable? <i>Doug Aloisi</i>	
3:00 PM	Break	
3:20 PM	A Career in the National Fish Hatchery System <i>David Miko</i>	

Tuesday
August 23

Schedule of Oral Presentations—Wednesday, August 24

Room	Atlanta	Chicago A	Chicago B	Chicago C
Time	Invasive Species Effects on the Coupling of Natural and Human Systems	Freshwater Fisheries Management II	Drought Impacts to Fisheries I	Movement and Aquatic Organism Passage II
9:40 AM	Coupling Recreational Fisheries and Phosphorous to Estimate Impacts of Nutrient Loadings on Freshwater Fishing Demand and Value <i>Frank Lupi</i>	Realized and Stated Preferences of Bank Angler Fishing Location within a Waterbody <i>Brian S. Harmon</i>	Welcoming Remarks	Effects of a New Fishway on Discontinuity of the Arkansas River Fish Community <i>Casey Pennock</i>
10:00 AM	Ecosystem and Fisheries Impacts of Asian Carp on Lake Michigan - the Atlantis Ecosystem Model Approach <i>Hongyan Zhang</i>	Evaluation of Vehicle Counters for Monitoring Angler Effort on Small Inland Lakes <i>Janice Kerns</i>	Tackling the Hydro-Illogic Cycle: Summary of Local, Regional, and National Drought Initiatives and Actions <i>Christopher C. Estes</i>	Hydraulic IMPACT on FISH Migration in Sariakandhi FISH PASS of Bangladesh <i>Bijoy Kumar Ghosh</i>
10:20 AM	Exploring the Tensions Challenging Asian Carp Management: The Role of Social and Scientific Uncertainty <i>Adam Kokotovich</i>	Angler Survey of the Regulated Reaches of the Tallapoosa River Fishery in Eastern Alabama <i>Clint Lloyd</i>	Freshwater Inflows for Bays and Estuaries: The Texas Approach <i>Cindy Loeffler</i>	Fishway Entrance Gate Orientation Effect on Upstream Migrating Adult American Shad (<i>Alosa Sapidissima</i>) <i>Kevin Mulligan</i>
10:40 AM	Property Owners' Willingness to Accept Natural Shoreline Conservation Programs on Their Inland Lake Properties in Michigan <i>Joel Nohner</i>	Understanding and Predicting Impacts of Commercial Harvest on White Suckers in Maine <i>Megan Begley</i>	Never Waste a Drought Crisis – Creating Instream Flow By Re-Routing Irrigation Water <i>Jonathan H. Kohr</i>	You Shall Not Pass!: Achieving Selective Fish Passage in the Presence of Invasive Species <i>John Hume</i>
11:00 AM	A New Process-Based System-Wide Model for Policy Exploration and Optimization <i>Steven Saul</i>	How Does Spatial Variability, Rewards, and Tag-Loss Impact Tag-Recapture Estimates of Exploitation Rate? <i>Dana Sackett</i>	Water Allocation in the Southeast: Stakeholder Governance and Decision Making <i>Elise Irwin</i>	Technical Developments in Fish Exclusion & Fish Passage <i>Andy Peters</i>
11:20 AM	Livelihood Interventions As Conservation Tools in Harvested Predator-Prey Systems <i>Micah Cameron-Harp</i>	Spatio-Temporal Variability in Size of Age-0 Blue Catfish in Chesapeake Bay Subestuaries <i>Vaskar Nepal</i>	Maintaining Mission Focus in the Face of a Historic Texas Drought <i>Tom Lang</i>	Migratory Behavior of Adult Sea Lamprey and Cumulative Passage Performance through Four Fishways <i>Theodore Castro-Santos</i>
11:40 AM	Lunch Break			

Wednesday
August 24

Schedule of Oral Presentations—Wednesday, August 24

Room	Atlanta	Chicago A	Chicago B	Chicago C
Time	Invasive Species Effects on the Coupling of Natural and Human Systems	Freshwater Fisheries Management II	Drought Impacts to Fisheries I	Movement and Aquatic Organism Passage II
1:00 PM	Farming an Invasive Species: Challenges and Benefits of Rapidly Expanding Cage Aquaculture in Lake Victoria <i>Sarah Glaser</i>	Hierarchical Bayesian Approach to Standardize Catch Rates of Blue Catfish in Tidal Rivers of Virginia from Multiple Surveys Using Multiple Gears <i>Donald J. Orth</i>	Utilizing Side-Imaging Sonar and GIS to Quantify Impacts of Reservoir Water-Level Fluctuations on Littoral Habitat and Recreational Access <i>Daniel Bennett</i>	Estimating Spatial Heterogeneity and Temporal Stability of Strontium Isotope Signatures for Use in Tracking Fish Movements <i>Lindsay Ciepiela</i>
1:20 PM	Changes in the Immature Growth Rates of a Native Salmonid in Response to an Experimental Caged Aquaculture Operation <i>Patrick J. Kennedy</i>	Electrofishing Catchability of Juvenile Muskellunge in Northern Wisconsin Lakes <i>Janice Kerns</i>	Hydrologic Impacts on a Natural Reproducing Population of Striped Bass: Lake Texoma Case History <i>Matt Mauck</i>	Traditional Considerations for Contemporary Tagging Studies: Factors Influencing Acoustic Telemetry Recaptures and Recoveries When Estimating Mortality Components <i>Christopher S. Vandergoot</i>
1:40 PM		Coastal Wetland-Nearshore Linkages of Green Bay Sportfishes <i>Christopher Houghton</i>	The Impacts of Drought on White Bass Fisheries in Central Texas <i>Marcos J. De Jesus</i>	Estimating Incision Healing Rate for Surgically Implanted Acoustic Transmitters from Recaptured Walleye <i>Abby Schoonyan</i>
2:00 PM	Coevolutionary Patterns of the VHS-IVb Fish Virus: Still in the Great Lakes and Mutating! <i>Carol A. Stepien</i>	The First Ten Years: A Review of Florida's Freshwater Fisheries Long Term Monitoring Program <i>Kevin Johnson</i>	Marine Aquaculture Production of Unfed Organisms Has Important Opportunities in Future Ecosystem Management <i>Christine M. Moffitt</i>	
2:20 PM	Submerged Aquatic Vegetation and Yellow Perch Population Collapse in Lake St. Pierre (St. Lawrence River): A Thirty-Year Tale of Fish Community Evolution <i>Matteo Giacomazzo</i>	Kentucky Lake: An Opportunity for Long Term Monitoring of Fish Communities <i>Bradley Hartman</i>	Day One Summary	
2:40 PM	Identifying Land-Lake Linkages for Fish Communities in Nearshore Zones of Lake Erie <i>Martin Simonson</i>	An Analysis of Risk Posed By Climate Change to Fisheries Management in the Great Lakes and Canadian Freshwaters <i>Gavin Christie</i>		

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Schedule of Oral Presentations—Wednesday, August 24

Room	Chouteau A	Chouteau B	Empire A	Empire B
Time	Management Riverscapes	Ecology and Life History I	Angling Participation Symposium—Wednesday	Release and Discard Mortality Estimation—Wednesday
9:40 AM	Welcoming Remarks	The Effects of Salinity on the Oxygen Consumption Rates of Juvenile Lumpfish <i>Jenna Rackovan</i>	Engaging in Recruitment, Retention and Reactivation Endeavors to Increase Participation in Fishing and Boating <i>Frank Peterson</i>	Barotrauma in Lake Erie Yellow Perch and Implications of Bycatch Mortality in Commercial and Recreational Fisheries <i>Carey Knight</i>
10:00 AM	The Riverscape: A Transformative Ecological Paradigm Used to Understand Conservation Outcomes <i>David Schumann</i>	Regional and Temporal Variation in Size at Maturity of Female Blue Crabs (<i>Callinectes sapidus</i>) in Texas Coastal Waters <i>Zachary Olsen</i>		Determining Post-Release Mortality for Atlantic Cod Discarded in the Gulf of Maine Lobster Fishery <i>Brett Sweezey</i>
10:20 AM	Mapping Watershed Integrity for the Conterminous United States <i>Darren Thornbrugh</i>	Evaluating Relative Predator Impacts on Juvenile Blue Crab Mortality in Chesapeake Bay <i>Amanda Bromilow</i>	Trend Since 2000 in Participation of Minorities, Women, and Children <i>Richard Aiken</i>	Estimating Atlantic Cod (<i>Gadus morhua</i>) by-caught and discarded in the Gulf of Maine Lobster Fishery <i>Robert Boenish</i>
10:40 AM	Hierarchy Theory Reveals Multiscale Threats to Arkansas Darter (<i>Etheostoma cragini</i>) in Modified Great Plains Riverscapes <i>Juju Corinne Wellemeyer</i>	Relating Habitat Characteristics and Fish Abundance and Diversity Metrics in Coral and Rocky Reef Ecosystems: Do Consistent Habitat “Drivers” Emerge? <i>Todd Kellison, PhD</i>	Efforts of the Afwa Angling/Boating Participation Committee <i>John Arway</i>	Discarded Fish: From on Deck Vitality Assessment to Survival after Release <i>Marie Morfin</i>
11:00 AM	The Ecological Consequences of Groundwater Depletion in Great Plains Riverscapes <i>Joshuah Perkin</i>	Phase Shifts in Fish Recruitment on the Northeast U.S. Continental Shelf <i>Charles T. Perretti</i>	Angling Recruitment through the Lens of Customer Relationship Management <i>Shari Dann</i>	A Short Review of Fisheries Bycatch and Bycatch Estimation <i>Carl Schilt</i>
11:20 AM	Unequal Ranging Abilities of Prairie Fishes and Consequent Threats to the Stream Ecosystem: Impacts of Lost Connectivity in Lotic Networks <i>Jenna Haag</i>	Larval Red Snapper (<i>Lutjanus campechanus</i>) Body Condition Relative to Environmental Variability and the Deepwater Horizon Oil Spill, 2007–2013 <i>Jesse Filbrun</i>	Understanding the Sportfishing Consumer <i>Lisa Bragg</i>	
11:40 AM	Lunch Break			

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Schedule of Oral Presentations—Wednesday, August 24

Room	Chouteau A	Chouteau B	Empire A	Empire B
Time	Management Riverscapes	Ecology and Life History I	Angling Participation Symposium—Wednesday	Release and Discard Mortality Estimation—Wednesday
				General Fisheries II
1:00 PM	Small Stream Fish Ladders for Drop Culverts <i>John Lorenzen</i>	Growth, Pelagic Larval Duration, and Exploitation of Caribbean Amphidromous Gobies <i>Jesse R. Fischer</i>	Road to Revenue <i>Peter Vernie</i>	Using Ipads to Collect Field Data <i>Jake Allman</i>
1:20 PM	Determining Breathing Frequency of Arapaima Spp. for Improved Fishery Management in the Amazon <i>Gretchen Stokes</i>	Genomic Signatures of Selection in Yellow Perch Populations with Variable Growth Trajectories and Mortality Rates <i>Wesley Larson</i>	A Survey of Iowa's Fishing and Hunting License Vendors <i>Rebecca M. Krogman</i>	Reporting Science in a Technological Age: Nfhp's through a Fish's Eye: The Status of Fish Habitats in the United States 2015 <i>Daniel Wieferich</i>
1:40 PM	Managing Structural Rehabilitation: Ecological Monitoring and Factors Driving Community Structure in a Restored Stream <i>Carl A. Favata</i>	American Eel Habitat Use and Timing of Freshwater Entrance in the Mississippi River <i>Andrew Bueltmann</i>	Multi-Year Youth Fishing License - Will It Keep Young Kansans Engaged in Fishing? <i>Doug Nygren</i>	More than Just Another Pretty Graph: Better Communicate Science through Improved Visual Communication <i>Jacqui Fenner</i>
2:00 PM	Using Riverscape Genetics to Inform Conservation of Eastern Brook Trout Populations <i>Lucas Nathan</i>	Variation in Haematological Constituents of Chrysichthys Nigrodigitatus from Freshwater and Brackishwater <i>Mabel Ipinmoroti</i>	Can an Email Make People Buy a License? <i>John Biagi</i>	Location, Location, Location: Incorporating Spatial Context into Fisheries Research <i>Robert Mapes</i>

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Schedule of Oral Presentations—Wednesday, August 24

Room	Empire C	Van Horn B	New York A	New York B
Time	Salmonids I	Fish and Cooling Water Intakes	T-Shaped Fisheries Professionals I	Centrarchids in Streams-Wednesday
9:40 AM	The Cost of Living in a Warming World: Physiological and Behavioral Response of Juvenile Chinook Salmon to Simulated Seasonal Water Temperature David Stormer	Implications of Sampling Period and Frequency on Baseline Ichthyoplankton and Coral Larvae Entrainment Estimates Brian Dresser	Overview of T-Shaped Professionals and Fisheries Conservation Heather Triezenberg	Historical Biogeography and Not Stocking Is the Better Predictor of Black Bass Species Composition in Louisiana Gulf Slope and Lower Mississippi Valley Streams Michael D. Kaller
10:00 AM	The Role of Geomorphic and Hydrologic Processes in Structuring Spawning and Rearing Habitats for Chinook Salmon in a Boreal Stream Ecosystem Jeffrey Falke	Protection of Fish at Freshwater and Saltwater Cooling Water Intake Structures Using Electricity Carl V. Burger	I Did Not Become a Fisheries Biologist to Work with People Michele Baumer	Factors Affecting Recruitment of Smallmouth Bass in Southwestern Wisconsin Streams Justin Haglund
10:20 AM	Estimating the Distribution of Juvenile Chinook Salmon Using Habitat Modeling and Environmental DNA in an Interior Alaska River Basin Allison Matter	Potential Impacts of 316(B) Regulatory Controls and Their Effects on Existing Power Plant Cooling Roman Carter	Building Bridges: The Science of Making Connections Betsy Riley	First Year Survival and Dispersal of Neosho Smallmouth Bass Jim Burroughs
10:40 AM	Evaluation of Growth, Survival, and Recruitment of Chinook Salmon in Southeast Alaska Rivers Cory Graham		Vision, Situational Analysis, and Cultivating Partnerships to Destroy Deficiencies Tom Lang	Effects of Habitat and Spatial Factors on Age-0 Smallmouth Bass in the Ozark Highlands Andrew D. Miller
11:00 AM	Variation in Temperature-Dependent Growth Rates in Juvenile Chinook Salmon: The Need for Population-Specific Bioenergetics Steve Blumenshine		Building Bridges for International Engagement So-Jung Youn	Combining Inference from Otolith Geochemistry and Population Genetics to Determine Scale of Dispersal in a River-Tributary Network Robert Humston

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Schedule of Oral Presentations—Wednesday, August 24

Room	Empire C	Van Horn B	New York A	New York B
Time	Salmonids I	Fish and Cooling Water Intakes	T-Shaped Fisheries Professionals I	Centrarchids in Streams-Wednesday
11:20 AM	Sea Lion Predation Impacts on Salmon and Steelhead in the Lower Columbia River, a Growing Problem <i>Douglas Hatch</i>		Communication Skills for the Successful Professional <i>Rhett Register</i>	Spawning Behavior and Habitat Use of Shoal Bass in Two Non-Navigable Chattahoochee River Tributaries <i>Amy Cottrell</i>
11:40 AM	Lunch Break			
1:00 PM			The Key Visual Communication Skill Sets That Every Fisheries Scientist Should Have <i>Evan Litwack</i>	Movement and Habitat Use of Shoal Bass in a Tributary Stream of the Flint River, Georgia <i>Travis Ingram</i>
1:20 PM	Assessing the Influence of Imprinting and Stocking Timing on Atlantic Salmon Smolt to Adult Return <i>Cory Gardner</i>		Complex Communication for Effective Outreach and Engagement <i>Erin Jarvie</i>	Navigating a Thermally Heterogeneous World: Smallmouth Bass in Spring-Fed Rivers <i>Jacob Westhoff</i>
1:40 PM	Behavioral Characterization of Downstream-Migrating Atlantic Salmon Smolts in the Estuary of the Penobscot River, Maine <i>Alejandro Molina Moctezuma</i>		Administrative Skills Important for the T-Shaped Professional <i>Kristen Fussell</i>	Springs As Thermal Refugia: Movement and Habitat Use Patterns of Smallmouth Bass in an Ozark River <i>Hope Dodd</i>
2:00 PM	Growth Trends in Two Sea Winter Atlantic Salmon in Maine's Downeast Rivers over 50 Years <i>Lisa Izzo</i>		Transform Yourself into a T-Shaped Professional through Use of Field-Based Academic Research Projects <i>Jay Beugly</i>	Movement and Habitat Selection Patterns of Smallmouth Bass in an Ozark River <i>Michael Siepker</i>

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Schedule of Oral Presentations—Wednesday, August 24

Room	Empire C	Van Horn B	New York A	New York B
Time	Salmonids I	Fish and Cooling Water Intakes	T-Shaped Fisheries Professionals I	Centrarchids in Streams-Wednesday
2:20 PM	Simulated Demographic and Evolutionary Impacts of Size-Selective Passage at Dams on Atlantic Salmon Body Size <i>George Maynard</i>		Investing in Extension Workforce Preparation, Development and Support for Fisheries Extension Professionals through Multiple Dimensions <i>Samuel Chan</i>	Evaluation of Fish Passage at the Yorkville Dam Bypass Channel Demonstrates Smallmouth Bass Home Range Fidelity <i>Stephen Pescitelli</i>
2:40 PM			Preparing the Next Generation of Fisheries Professionals for Career Success <i>Steve L. McMullin</i>	

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Schedule of Oral Presentations—Thursday, August 25

Room	Atlanta	Chicago A	Chicago B	Chicago C
Time	Fish Conservation	Pallid Sturgeon Population Dynamics and Stressors	Drought Impacts to Fisheries II	Theory and Application of Behavioral Guidance Technologies
8:00 AM	Population Assessment of the Scott Riffle Beetle, a Kansas Endemic Species <i>Jordan Hofmeier</i>	Assessment of Age-0 Sturgeon Catch and Habitat Use from Five Reaches in the Lower Missouri River <i>Nathan Gosch</i>	Day Two Welcome	Introductory Remarks <i>Peter W. Sorensen</i>
8:20 AM	Current Status and Distribution of the Strawberry Darter in the Tributaries and Mainstem of the Strawberry River Drainage <i>Kyler Hecke</i>	Effect of Shallow-Water Habitat Quantity on Young-of-Year Sturgeon Prey Use and Condition Along a Longitudinal Gradient <i>Anthony Civiello</i>	From Pristine to Severely Degraded; Spatial Assessment of Texas Tidal Streams <i>James Tolan</i>	Behavioral Guidance: The Promise and Challenge <i>Peter W. Sorensen</i>
8:40 AM	Search for Blackbanded Sunfish Populations in Florida <i>Travis Tuten</i>	Drift Initiation and Dynamics of <i>Scaphirhynchus</i> Sturgeon in the Lower Missouri River <i>Kimberly A. Chojnacki</i>	Evaluating Freshwater Inflow Regulations in the San Francisco Bay Estuary <i>Christina Swanson</i>	Design Concepts and Developments in Behavioural Fish Guidance <i>Andy Turnpenny</i>
9:00 AM	Spatially Distinct Life Stages Leave a Tropical Fish Species More Susceptible to Climate Change <i>Eric Schneider</i>	Interception Habitat for Pallid Sturgeon in the Upper Channelized Missouri River <i>Jerrod Hall</i>	The Role of Context Dependency in Understanding the Effects of Low Flow Events on Fish <i>Annika Walters</i>	Introduction to Sound and Guided Response of Bigheaded Carp to Acoustic Deterrents <i>Daniel Zielinski</i>
9:20 AM	Food Web Structure and Contaminant Trophodynamics of a Freshwater Riverine System: Implications for an Imperiled Sucker Species <i>Tiffany N. Penland</i>	Break		
9:40 AM	Break	Energetic Costs Associated with Habitat Use during Early Life Influence Growth Rate Potential of <i>Scaphirhynchus</i> Sturgeon <i>Anthony P. Porreca</i>	Responding to Low Flows on the Dungeness River – an Experience from the Washington Drought 2015 Playbook <i>Joshua Rogala</i>	Bigheaded Carp Behavior and Bioacoustics <i>Brooke J. Vetter</i>

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Schedule of Oral Presentations—Thursday, August 25

Room	Atlanta	Chicago A	Chicago B	Chicago C
Time	Fish Conservation	Pallid Sturgeon Population Dynamics and Stressors	Drought Impacts to Fisheries II	Theory and Application of Behavioral Guidance Technologies
10:00 AM	Utilizing Fishermen's Ecological Knowledge to Map Atlantic Cod Spawning Grounds on Georges Bank and Nantucket Shoals Douglas Zemeckis	Physical Factors Affecting Drift of Pallid Sturgeon Free Embryos in the Missouri River Basin Susannah O. Erwin	Drought Increases Trout Recruitment at the Expense of Adult Size in Tailwaters Downriver of Dams in Western North America Kimberly Dibble	Potential Implications of Acoustic Stimuli As a Non-Physical Barrier to Silver (<i>Hypophthalmichthys molitrix</i>) and Bighead Carp (<i>H. nobilis</i>) Kelsie A. Murchy
10:20 AM	Pollution of Nigerian Aquatic Ecosystems By Industrial Effluents: Effects on Fish Productivity Olufemi Olabode Joseph	River Analyzer: A New Three-Dimensional Hydro-Acoustic River Mapping Tool to Estimate Drift Rates for Larval Pallid Sturgeon over Distances of 100's of Kilometers Brian Marotz	How to Survive a Drought: Modeling Shows Evidence of the Importance of Foraging Plasticity to Juvenile Salmon Taylor Spaulding	An Outboard Boat Motor Sound Deters Carps in a Lock Chamber As Well As in a Laboratory Tank Clark Dennis III
10:40 AM	Saving a Species from the Edge of Extinction Corey Lee	Development and Application of a Spatially Explicit Growth Model for Age-0 <i>Scaphirhynchus</i> Spp. David Deslauriers	Connecting the Apalachicola-Chattahoochee-Flint River Basin - Hydrologically, Biologically and Politically Dan Tonsmeire	The Effectiveness of Carbon Dioxide As a Barrier to Prevent Fish Movement Eric Schneider
11:00 AM	Impact of Conservation-Based, Captive Rearing on the Performance of an Endangered Species, the Atlantic Salmon (<i>Salmo salar</i>) Nathan Wilke	Range-Wide Population Genetics and Hybridization in Pallid and Shovelnose Sturgeon Edward Heist	Protecting Fish during a Drought – Lake Kachess Bull Trout 2015 Joshua Rogala	Electric Dispersal Barriers on the Chicago Sanitary Ship Canal: Comparative Testing of Invasive Carp and Fishes Employed As Surrogates F. Michael Holliman
11:40 AM	Lunch Break			
1:00 PM	Does Disturbance Facilitate Round Goby Invasion? Corey Krabbenhoft	Model Development to Support Pallid Sturgeon Recovery Michael Colvin	Threats to Pelagic-Broadcast Spawning Cyprinids Shannon K. Brewer	Can We Manipulate Reproductive Migrations? Lamprey Search Behavior and Habitat Selection Presents Opportunities for Improved Conservation Trevor Meckley

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Schedule of Oral Presentations—Thursday, August 25

Room	Atlanta	Chicago A	Chicago B	Chicago C
Time	Fish Conservation	Pallid Sturgeon Population Dynamics and Stressors	Drought Impacts to Fisheries II	Theory and Application of Behavioral Guidance Technologies
1:20 PM	An Evaluation of Plankton Sampling Methods to Detect Zebra Mussel Veligers in a Newly-Infested Kansas Reservoir <i>Jessica Edmunds</i>	Examination of Pallid Sturgeon Life-History Characteristics throughout the Missouri River Basin <i>Martin Hamel</i>	Texas Drought of Record: Lessons Learned for the Conservation of Broadcast Spawning Cyprinids <i>Aaron Urbanczyk</i>	Special Considerations in Design of Barriers for Invasive Fish Control <i>Andy Turnpenny</i>
1:40 PM		Environmental Life History of <i>Scaphirhynchus</i> Sturgeon in the Lower Missouri and Middle Mississippi Rivers <i>Seth Love</i>	Fragmentation and Drying Ratchet Down Great Plains Stream Fish Diversity <i>Joshuah Perkin</i>	Go, Carp. Go!: Efficacy of Waterguns, Sound, and CO ₂ to Deter Bigheaded Carp <i>Marybeth K. Brey</i>
2:00 PM	A Strategic Conservation Plan for Threatened and Endangered Mussel Species of the Gulf Coast Prairie Region <i>Wesley Daniel, PhD</i>	From Pallid and Shovelnose Sturgeon to Chubs to Invertebrates: A Lower Missouri River Community Model for Assessing Predation, Competition, and Resource Effects on Population Dynamics <i>Mark L. Wildhaber</i>	Fish Assemblages and Declining Water Quantity and Quality in the Rio Grande Basin, West Texas: How Low Can You Go? <i>Christopher Taylor</i>	Monitoring Common Carp Movement in Response to Acoustic and Strobe-Light Barriers <i>Paul Bzonek</i>
2:20 PM	Hotspots of Freshwater Mussel Biodiversity in East Texas <i>Ashley Walters</i>	Lower Missouri River Pallid and Shovelnose Sturgeon Population Viability Models with Hierarchical Partitioned Uncertainty <i>Nicholas S. Green</i>	Effects of Extreme Drought on Fishes of a Great Plains River <i>Gene Wilde</i>	Modifying Flows at Mississippi River Dams to Stop Bigheaded Carp Passage <i>Daniel Zielinski</i>
2:40 PM	Towards a Strategic and Spatially-Explicit Mussel Conservation Assessment and Monitoring Program in Missouri – Our Vision <i>Amanda Rosenberger</i>	Pallid Sturgeon Spawning Habitat on the Lower Missouri and Yellowstone Rivers <i>Caroline M. Elliott</i>	Fish Communities of Environmentally Different Streams: Response to Drought, Tempo of Recovery, and "Loose Equilibrium" <i>William Matthews</i>	Improving Downstream Passage for Multiple Species - the Importance of Understanding Fish Behaviour <i>Andrew S. Vowles</i>
3:00 PM	Break			

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Schedule of Oral Presentations—Thursday, August 25

Room	Atlanta	Chicago A	Chicago B	Chicago C
Time	Fish Conservation	Pallid Sturgeon Population Dynamics and Stressors	Drought Impacts to Fisheries II	Theory and Application of Behavioral Guidance Technologies
3:20 PM	Investigating Sources of Bias in Freshwater Mussel Sampling Methods in the Meramec River Basin, Missouri <i>Matthew Schrum</i>	Spawning, Early Life Stage Dispersal, and Recruitment Deficiency of Wild Pallid Sturgeon in the Fragmented Upper Missouri River Basin <i>Patrick J. Braaten</i>	Discussion	Recent European Electric Fish Barrier Feasibility Studies and Installations <i>Martin O'Farrell</i>
3:40 PM	Derivation of Hydrogeomorphic Variables for Fundamental Niche Modeling of Unionid Mussel Concentrations in Missouri Ozark Rivers <i>Garth Lindner</i>	Evidence for Altered and Insufficient Spawning As a Causative Factor in the Decline of Pallid Sturgeon and As an Impediment to Recovery <i>Aaron J. DeLonay</i>		Panel Discussion
4:00 PM	Is Morphology Still Relevant in Mollusk Conservation? <i>Russell Minton</i>	Survival, Growth and Movement of Hatchery-Reared Pallid Sturgeon Post-Stocking <i>Kirk Steffensen</i>		
4:20 PM	Do Propagation and Culture Methods for Native Freshwater Mussels Influence Their Chemical Sensitivity? <i>Anakela Popp</i>	Emigration of Hatchery-Reared Pallid Sturgeon through Gavins Point Dam <i>Landon Pierce</i>		
4:40 PM	Modeling Fluvial Habitat Suitability for 11 of Michigan's Listed Unionids <i>Arthur R. Cooper</i>	Influences of Environmental Conditions on Distance Moved By Shovelnose Sturgeon in the Lower Mississippi River <i>Dylan A. Hann</i>		

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Schedule of Oral Presentations—Thursday, August 25

Room	Chouteau A	Chouteau B	Empire A	Empire B
Time	Protecting Fish at Cooling Water Intakes	Carp Ecology and Management	Angling Participation Symposium III	Methods for Managing Large River Fisheries
8:00 AM	Collaborative 316b Study of Seven Power Plants on the Ohio River, Year 1 Results <i>Jason Rager</i>	Prussian Carp (<i>Carassius gibelio</i>), the New 'Asian Carp' in North America <i>Mark Poesch</i>	Keep Them Fishing: Angler Churn Rates, Lifestyles and Other Insights Needed to Effectively Maintain Sportfishing <i>Lisa Bragg</i>	Principles & Processes for Assessing Fish Assemblage Condition in Boatable Rivers of Five Continents <i>Robert Hughes</i>
8:20 AM	Inside out: A Comparison of Entrainment Sampling in-Plant Vs Offshore <i>Eric Miller</i>	Dramatic Collapse of Common Carp (<i>Cyprinus carpio</i>) in the Upper Mississippi River System <i>Daniel Gibson-Reinemer</i>	Determining How Differences Between Avid and Lapsed Anglers Can Improve License Sales and Angler Satisfaction <i>Brett T. van Poorten</i>	Fishery Agencies, Management, and Conservation in the Yangtze River Basin <i>Yushun Chen</i>
8:40 AM	Internet-Based Larval Fish and Egg Taxonomic Key Resource for Freshwater and Marine Environments <i>Christopher Cieciek</i>	Juvenile Asian Carp Predation on the La Grange Reach, Illinois River <i>Eli Lampo</i>	Combating the Disconnect Between Actual and Paid Participation: A Model to Predict License Purchase Based on Angler Behavior and Characteristics <i>Susan Steffen</i>	Micra: A Structure for Cooperative Fishery Resources Management in the Mississippi River Basin <i>Greg Conover</i>
9:00 AM	Molecular Method Applications to Support Entrainment Study Evaluations <i>Douglas Bradley</i>	Bighead Carp Effects on the Growth and Abundance of Larval Bluegill <i>Cameron Fletcher</i>	Factors Affecting Fishing License Purchase Patterns and Angler Retention Strategies in Iowa <i>Jeff Kopaska</i>	Six Fishes Native to the Yangtze River: An Update on Their Status in the Mississippi River Basin <i>Duane Chapman</i>
9:20 AM	Break			
9:40 AM	Comparison of Survival of Fish Eggs and Larvae Via Collection and Transfer By Fine Mesh Traveling Screens Vs. through-Plant Entrainment Survival <i>Gary Thorn</i>	Linking Nutrient Dynamics to Assess the Impact of Invasive Asian Carp on Native Communities <i>Elizabeth Tristano</i>	The Role of Angler Education Programs in Angler Participation <i>Doug Darr</i>	Anthropogenic Stressors and Climate Change in the Yangtze River Basin <i>Yushun Chen</i>
10:00 AM	Multi-Model Inference for Estimating Entrainment Survival <i>John Young</i>	Direct and Indirect Effects of Size-Selective Predation By Bighead Carp on Zooplankton Communities <i>Scott F. Collins</i>	Discover Nature – Fishing: A Statewide Angler Education Program in Missouri <i>Andrew Branson</i>	Conducting Biological Assessments of a Large River: The Ohio River (Mississippi River Basin) <i>Jeff Thomas</i>

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Schedule of Oral Presentations—Thursday, August 25

Room	Chouteau A	Chouteau B	Empire A	Empire B
Time	Protecting Fish at Cooling Water Intakes	Carp Ecology and Management	Angling Participation Symposium III	Methods for Managing Large River Fisheries
10:00 AM	Multi-Model Inference for Estimating Entrainment Survival <i>John Young</i>	Direct and Indirect Effects of Size-Selective Predation By Bighead Carp on Zooplankton Communities <i>Scott F. Collins</i>	Discover Nature – Fishing: A Statewide Angler Education Program in Missouri <i>Andrew Branson</i>	Conducting Biological Assessments of a Large River: The Ohio River (Mississippi River Basin) <i>Jeff Thomas</i>
10:20 AM	316(b) Applications: Thoughts from a Regulator on Study Plans <i>Sean Ramach</i>	Variation in the Density and Population Demographics of Asian Carp throughout the Illinois River <i>David P. Coulter</i>	Fishing's Future: Reconnecting Families & Setting a Foundation for the Future of Fishing <i>Michael Scherer</i>	Fish Assemblage Responses to Different Secondary Channel Designs in the Lower Mississippi River, USA: A Template for River Restoration <i>Michael Eggleton</i>
10:40 AM	Comparison Between the Final 2014 EPA Phase II Rule and New York State Department of Environmental Conservation Commissioner's Policy – 52 in Implementing the National Pollutant Discharge Elimination System <i>Colleen Kimble</i>	Temporal and River Discharge Effects on Silver Carp Abundance and Size Structure in the Wabash River <i>Daniel Roth</i>	Incorporating Fishing into the PK-12 Curriculum: Aligning Programs to the Georgia Performance Standards (GPS) and Georgia Early Learning Development Standards (GELDS) <i>Marion Baker</i>	The Ohio River Ecological Research Program...40 Years and Counting <i>Greg Seegert</i>
11:00 AM	Endangered Species Act Case Studies Related to Clean Water Act 316(b) <i>Harriet Nash</i>	Identification of Bighead Carp and Silver Carp Natal Environments and Detection of Lock and Dam 19 Passage in the Upper Mississippi River: Insights from Otolith Chemistry <i>Gregory Whitley</i>	What High School Fishing Can Bring to Your State <i>Mark Gintert</i>	Integrated Ecosystem Health Assessment of the Niyang River after Human-Induced Disturbance in Tibetan Plateau: A Multicompartment Approach <i>Haiping Liu</i>
11:20 AM	Discussion 1		"Creating New Anglers" through Future Angler Foundation Partnerships <i>Robert "Nick" Schmal</i>	The United Fishing Method: History, Development, and Applications in China <i>Zhongjie Li</i>
11:40 AM	Lunch Break			

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Schedule of Oral Presentations—Thursday, August 25

Room	Chouteau A	Chouteau B	Empire A	Empire B
Time	Protecting Fish at Cooling Water Intakes	Carp Ecology and Management	Angling Participation Symposium III	Methods for Managing Large River Fisheries
1:00 PM	Coordination for Implementation of the 316(b) Rule for Two Utilities on the Missouri River <i>Dan Bigbee</i>	Assessing the Influence of Trophic State on Littoral Zone Fish Communities, Dissolved Oxygen Regimes, and Habitat Composition in Florida Lakes <i>Chris Anderson</i>	Influencing Anglers: A Look at Florida's Trophycatch and Big Catch Angler Recognition Programs <i>Jessica Quintana</i>	Application of the Unified Fishing Method in Removing Asian Carps in the United States: Field Success and Challenges <i>Kevin Irons</i>
1:20 PM	A Peer Reviewer's Observations on Entrainment Characterization Study Plans <i>Chuck Coutant</i>	What Factors Structure Lake Sturgeon Spawning Aggregations in a Great Lakes Connecting Channel? <i>Greg Jacobs</i>	How Far Is It? Understanding Urban Angler's Constraints to Fishing Participation in the Southeast <i>Ramon Martin</i>	Novel Trawling Techniques Capture Juvenile Silver Carp in the Illinois River <i>Emily Pherigo</i>
1:40 PM	Non-Use Benefits: 800 Lb. Gorilla or Gentle Pussy Cat? <i>William Dey</i>	Are Missouri River <i>Macrhybopsis</i> Spp. Pelagophils, Litho-Pelagophils, or Lithophils? <i>Janice L. Albers</i>	Creating New Anglers in Texas' Major Cities and Strategies to Retain Them <i>Dave Terre</i>	A Modified Purse Seine to Remove Invasive Carp from Midwestern Waterways <i>Kevin Drews</i>
2:00 PM	Facilitating Clean Water Act 316(b) Rule-Required Peer Review of 122.21(r) Reports <i>Radhika de Silva</i>	Bowfin Acoustic Telemetry: Insight into the Ecology of a Living Fossil <i>Jonathan D Midwood</i>	Community Fisheries in Eastern South Dakota: Angler Demographics, Use, and Factors Influencing Satisfaction <i>Michael J. Greiner</i>	Paupier: A Modified Skimmer Trawl Developed to Target Asian Carp in Midwestern Waters <i>Wyatt Doyle</i>
2:20 PM	Laboratory Traveling Water Screen Optimization Evaluations <i>Daniel Giza</i>	Food and Feeding Habits of Tilapia zilli in Ogun River <i>Festus Adeosun</i>	Missouri's Community Assistance Program: An Evolving Strategic Partnership Program <i>Laura Ruman</i>	Using Otolith Analysis and Microchemistry to Estimate Growth and Identify Recruitment Sources of Ohio River Sauger <i>Alex Loubere</i>
2:40 PM	Application of a Fish Barrier to Reduce Fish Entrainment at Lovewell Reservoir, Kansas <i>Andrew McCusker</i>	Effects of Wastewater Treatment Effluent on Fish Communities in an Illinois River Tributary <i>Bethany Hoster</i>	Twenty Years of Angler Participation in Virginia's Game Fish Tagging Program <i>Susanna Musick</i>	Genomics: A Powerful Tool in the Management and Conservation of Fisheries Resources <i>Guoqing Lu</i>
3:00 PM	Break			

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Schedule of Oral Presentations—Thursday, August 25

Room	Chouteau A	Chouteau B	Empire A	Empire B
Time	Protecting Fish at Cooling Water Intakes	Carp Ecology and Management	Angling Participation Symposium III	Methods for Managing Large River Fisheries
3:20 PM	Technical Developments in Fish Exclusion & Debris Barriers <i>Andy Peters</i>	Comparing Contributions of Mussels and Fish As Biogeochemical Hotspots <i>Garrett W. Hopper</i>	Assessment and Monitoring of Newly Established Public River Access and Conservation Areas <i>Jessica East</i>	Feeding Plasticity of Silver Carp and Bighead Carp in Chinese Lakes Based on Next Generation Sequencing <i>Qigen Liu</i>
3:40 PM	Utilizing Skimmer or Curtain Walls to Reduce Entrainment at Cooling Water Intake Structures <i>Jonathan Black</i>	Larval Fish Assemblages Differ Spatially and Temporally on a Large River <i>Jordan Pesik</i>	The Recreational Angler As Ecosystem Steward <i>Adam Landon</i>	Comparative Gut Metagenomics Among Bighead Carp, Silver Carp and Their Hybrids <i>Lifeng Zhu</i>
4:00 PM	Discussion 2	Streamflow Complexity Associations with the Northern Leatherside Chub at Multiple Spatial Scales <i>Daniel Dauwalter</i>	The Role of Private Waters in Recruiting Anglers <i>Leslie Burger</i>	
4:20 PM		Phenology, Growth, and Early Life History of Six Sympatric Suckers <i>Tomas J. Ivasauskas</i>	Acquiring and Retaining Active Participation within a Constituent-Based Tagging Program <i>Adrienne Katz</i>	

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Schedule of Oral Presentations—Thursday, August 25

Room	Empire C	Van Horn B	New York A	New York B
Time	Salmonids II	River Restoration	Modeling and Statistics (Contributed Papers)	Centrarchids in Streams III
8:00 AM	Genetic Assessment and Effects of Stocking on Wild Brook Trout Populations in South Carolina <i>Kasey Pregler</i>	Multi-Scale Approach to Hydrological Classification Provides Insight to Flow Structure in Altered River System <i>Jonathan Spurgeon</i>	Density Impacts on Biological Reference Points and Management <i>Amy M. Schueller</i>	Smallmouth Bass Population Characteristics and Movements in the Menominee River, Wisconsin-Michigan <i>Joshua Schulze</i>
8:20 AM	Survival of Brook and Brown Trout through the Spawning Season in a North Central Pennsylvania Watershed <i>John A. Sweka</i>	Migratory Fish Restoration in the Susquehanna River <i>Sheila Eyler</i>	Using Length-Frequency Analysis to Identify Spatial and Temporal Variation in Cohort Occurrences <i>Skyler Hedden</i>	Estimating Black Bass Harvest Utilizing a Tag Reward Study on Three Indiana River: West Fork White River, St. Joseph River, and Eel River <i>Sandra Clark-Kolaks</i>
8:40 AM	Efficacy of Environmental DNA to Detect and Quantify Brook Trout <i>Salvelinus fontinalis</i> , Populations in Streams of the Adirondack Mountains, New York <i>Barry P. Baldigo</i>	Floodplain Deforestation Effects on Fisheries Yields <i>Leandro Castello</i>	Using Capture-Recapture Models to Estimate Angler Abundance in Southern Lake Michigan <i>Dominique Turney</i>	Harvest Evaluation of Smallmouth Bass from Selected Ozark Streams in Missouri <i>Chris Williamson</i>
9:00 AM	The Influence of Thermal Variability on Brook Trout Distribution in Boreal Streams <i>Robert W. Mackereth</i>	Analysis of Individual Fish Growth Reveals Variable Efficacy of in-Stream Habitat Restoration <i>Karl M. Polivka</i>	Analysis of Lake Huron Recreational Fisheries Data Using Models Dealing with Excessive Zeros <i>Zhenming Su</i>	The Evolution of Smallmouth Bass Management in Missouri Ozark Streams <i>Craig Fuller</i>
9:20 AM	Break			
9:40 AM	Translating Disturbance into Biological Effects: A Case Study in Appalachian Headwater Brook Trout Populations <i>Ross Andrew</i>	Larval Fish Communities Upstream and Downstream of Spawning Habitat Improvements in the St. Clair-Detroit River System <i>Robin L. DeBruyne</i>	Use of Two Alternative Methods to Validate Access Based Creel Probabilities <i>Tanner Stevens</i>	Forecasting the Effects of Angler Harvest and Climate Change on Smallmouth Bass Abundance at the Southern Edge of Their Range <i>Christopher Middaugh</i>
10:00 AM	Behavior and Survival of Stocked Trout in Southern Appalachian Mountain Streams <i>Thomas J. Kwak</i>	A Natural Channel Vs. Natural Channel Design: A Case Study in the San Antonio River, Bexar County, Texas <i>Shaun Donovan</i>	Can We Develop Generic BIA Models of Fish Composition? <i>Kyle Hartman</i>	Evaluation of a 14-in Minimum Length Limit for Smallmouth Bass <i>Micropterus dolomieu</i> in the Eleven Point River <i>Brett Timmons</i>

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Schedule of Oral Presentations—Thursday, August 25

Room	Empire C	Van Horn B	New York A	New York B
Time	Salmonids II	River Restoration	Modeling and Statistics (Contributed Papers)	Centrarchids in Streams III
10:20 AM	Brook Trout Passage Performance through Culverts: The Importance of Motivation <i>Elsa Goerig</i>	A Biological Assessment and Response to a Missouri River Top-Widening Project <i>Thad Huenemann</i>	Quantitative Video Analysis of Fish and Squid Behavior at the Mouth of a Drop-Chain Trawl <i>Shannon Bayse</i>	Smallmouth Bass Fishing in Missouri: Results from the 2011 Angler Survey <i>Craig Fuller</i>
10:40 AM	What Drives the Abundance of Littoral and Pelagic Brook Charr in Canadian Shield Lakes? <i>Vincent Rainville</i>	Fish Assemblages from Chevron Dikes in the Middle Mississippi River <i>John West</i>	A Statistical Approach to Estimating Multinomial Effective Sample Size for Stock Assessment Models <i>Samuel B. Truesdell</i>	Resample, Recapture, and Re-Analyze: Using the 3 R's to Resurrect the Scale Method of Estimating Fish Age <i>Colt T. Holley</i>
11:00 AM	Development and Simulated Use of a YY Male Brook Trout Broodstock for Potential Eradication of Undesired Brook Trout Populations <i>Daniel J. Schill</i>		Evaluation of Mean RANK Shift for Discerning Changes in Reservoir FISH Assemblages <i>Don Dennerline</i>	Using Capture Probability of Smallmouth Bass in Missouri's Ozark Rivers to Provide a Statewide Perspective of Smallmouth Bass Populations <i>Andrew Turner</i>
11:20 AM	Evaluating the Post-Stocking Survival and Reproductive Success of YY Male Brook Trout <i>Patrick Kennedy</i>		Feasibility of Electrodesation As an Alternative to Chemical Sedation of Lake Trout, Salvelinus Namaycush <i>Matthew Faust</i>	
11:40 AM	Lunch Break			
1:00 PM	Spatiotemporal Patterns in Trophic Niche Overlap Among Five Lake Michigan Salmonine Species: Inference from Stable Isotope Ratios <i>Matthew S. Kornis</i>	Acute Stress Response in Rainbow Trout (<i>Oncorhynchus mykiss</i>) Fed Bioprocessed Soybean Diets <i>Timothy Bruce</i>	Stable Isotope Analysis Versus Troph: A Comparison of Methods for Estimating Fish Trophic Positions in a Subtropical Estuarine System <i>Felipe Amezcua Jr.</i>	Identification of Forage Fish in Estuarine Systems Using Qualitative and Quantitative Criteria <i>Samantha M. Binion-Rock</i>
1:20 PM	Highly Variable and Elevated Straying Rates of Steelhead Trout from Lake Erie Tributaries <i>Richard R. Budnik</i>	Characterization of Growth Physiology through Gene Expression in Rainbow Trout (<i>Oncorhynchus mykiss</i>) Fed Bioprocessed Soy-Based Diets <i>Timothy Bruce</i>	Investigating the Utility and Relative Accuracy of Nonlethal Ageing Structures to Age Two Nonnative (Brook Trout and Brown Trout) and One Native (Rio Grande Cutthroat Trout) Trout Species Collected in Carson National Forest, New Mexico <i>Phillip Parsley</i>	Dynamics of Eastern Oysters in the Choptank River Complex, Maryland <i>Matt Damiano</i>

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Schedule of Oral Presentations—Thursday, August 25

Room	Empire C	Van Horn B	New York A	New York B
Time	Salmonids II	River Restoration	Modeling and Statistics (Contributed Papers)	Centrarchids in Streams III
1:40 PM	Genetic Heritage of Naturally Produced Lake Trout in Lake Michigan <i>Keith Turnquist</i>	Effect of Point Source Feeders on Cultured Sockeye Salmon Social Behavior <i>Desmond J. Maynard</i>	Accuracy and Precision of Longnose and Spotted Gar Age Estimates from Otoliths, Pectoral Fin Rays, and Branchiostegal Rays <i>David Buckmeier</i>	Population Age Frequencies and Evidence of Multidecadal Recruitment in the Ocean Quahog <i>Sara M. Pace</i>
2:00 PM	Relatedness on the Landscape: Do Juvenile Steelhead Trout Establish Territories Near Their Siblings? <i>Marissa Jones</i>	Effects of Supplemental Feeding on Diel Patterns of Gut Fullness, Diet Composition, and Digestive Enzyme Activities of Juvenile Channel Catfish <i>Jesse Filbrun</i>		Development of a Population Wide Index of Spawning Stock Biomass for Atlantic Mackerel <i>Lauren E. Carter</i>
2:20 PM	Lake Trout Spawning Habitat Selection in the Drummond Island Refuge: Paradigm or Paradox? <i>Steven A. Farha</i>	Calcein Marking: A Non-Lethal Batch Marking Option for Stocking Evaluation <i>Greyson Farris</i>		Assessing Southern Flounder Populations in the Northern Gulf of Mexico <i>Adrian Stanfill</i>
2:40 PM	Reproductive Stage Impacts Interrenal Tissue Function in Rainbow Trout, <i>Oncorhynchus mykiss</i> <i>Scott Lankford</i>	Break		Estimating Length-at-Age and Length-at-Maturity for the North-Central Gulf of Mexico Southern Flounder Stock <i>Morgan M. Corey</i>
3:00 PM	Break	Progress and Early Success of Large-Scale Conservation Aquaculture Production to Restore Kootenai River Burbot <i>Shawn Young</i>	Break	
			T-Shaped Fisheries Professionals II	
3:20 PM	The Fate of Stocked Trout in Arizona Streams <i>William Stewart</i>	Biosecurity Design Elements in Public Fish Hatcheries <i>Matt Cochran</i>	Being Everything for Everyone: Experiences of a Student Striving to Achieve Disciplinary Depth and Breadth <i>Joel Nohner</i>	Predator-Prey Relationships and the Continued Decline of Atlantic Cod in the Southern Gulf of St. Lawrence <i>Rachel Neuenhoff</i>
3:40 PM	Impacts of Northern Pike Predation on a Stocked Rainbow Trout Fishery <i>Steven R. Chipps</i>	The Use of Probiotics for the Freshwater Fishes of India <i>Masilamani Selvam</i>	Mentoring and Professional Development in Fisheries <i>William W. Taylor</i>	Atlantic Menhaden Seasonal Migration, Survival, and Exploitation Rates during 1966–1969 <i>Emily M. Liljestrand</i>

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Room	Empire C	Van Horn B	New York A	New York B
Time	Salmonids II	River Restoration	T-Shaped Fisheries Professionals II	Centrarchids in Streams III
4:00 PM		Beyond the Bashing: Building Constraints in Hatchery-Based Recreational Fisheries, Considering Fish Health and Genetic Impact <i>Nathan Wilke</i>	NOAA Student Opportunities in Fisheries Science and Management <i>Laura Oremland</i>	Development of a Bayesian Mixed-Stock Model for Determining the Origin of Atlantic Bluefin Tuna <i>Hui Liu</i>
4:20 PM		Humane Fish Slaughter: A comparison of Fish Welfare Standards in the United States and the United Kingdom. What is the next step? <i>Phong L. Nguyen</i>	Advancing Professional Development for Fisheries Stock Assessment Scientists <i>Sarah Stein</i>	Exposure to Oil-Associated Metals, As Documented in Otoliths, May be Detrimental to the Health of Gulf of Mexico Fishes <i>Jennifer Granneman</i>
4:40 PM			The Development and Implementation of a Professional Master's Degree for Natural Resource Agency Employees <i>Chris Luecke</i>	

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POSTER LIST

For space-saving reasons, only the title and authors are shown. Abstracts are available on the mobile app.

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P-1 Digestibility and Palatability of Processed Forms of Carinata and Camelina Seedmeals

Tom Kasiga, South Dakota State University

P-2 Glucosinolate Tolerance Limit in Hybrid Striped Bass

Tom Kasiga, South Dakota State University

P-3 Improving Efficiency in Saugeye Production Using Cryopreserved Milt

Bryan Blawut¹, Matt Krcmarik¹, Barbara Wolfe², Marco da Silva¹, Richard D. Zweifel³, Doug Sweet⁴, and R. Scott Hale⁵; (1)Ohio State University, (2)Morris Animal Foundation, (3)Inland Fisheries Research Unit, Division of Wildlife, (4)Ohio Division of Wildlife, (5)Fisheries Management Section, Division of Wildlife

P-4 Egg Hatch and Swim-up Survival for Two Salmonid Species Using Remote Site Incubators

Alicia Wilson and Nancy A. Auer, Michigan Technological University

P-5 Over-Wintering Physiology of Age-0 Lake Sturgeon: Implications for Conservation Aquaculture

David Deslauriers and Gary Anderson, University of Manitoba

P-6 Reservoir Systems Can Reduce Thermal Shock When Chillers Used in the Incubation of Salmon Eggs Fail

John Colt, NOAA Fisheries Service and Desmond J. Maynard, NOAA Fisheries Service NWFSC

Conservation and Restoration

P-9 Survival and Drift Behavior of Pallid Sturgeon Free Embryos and Larvae in an Artificial Channel

Kevin Buhl and Travis Schaeffer, U.S. Geological Survey

P-10 Integrating Golden Mahaseer Life History into Bhutanese Natural Resource Conservation Planning

Karma Wangchuk¹, D K Gurung¹, Jigme Tsendrup², Tshering Dorji¹, Julie Claussen³, Dechen Dorji², Namgay Dorji¹, Singye Tshering¹, Tshewang Tashi¹, Michael Philipp⁴ and David P. Philipp³; (1)Bhutan Ministry of Agriculture and Forests, (2)World Wildlife Fund—Bhutan, (3)Fisheries Conservation Foundation, (4)World Wildlife Fund—U.S.

P-11 Long-Term Fish Community Monitoring and Status of Topeka Shiner at Pipestone National Monument, Minnesota

Jeff Williams¹, Hope Dodd¹, David Peitz¹, J. Tyler Cribbs¹, Katie Bertrand², and Brian Graeb²; (1)National Park Service, (2)South Dakota State University

P-12 Fish Communities of Tallgrass National Preserve

Tyler Cribbs, National Park Service and Hope Dodd, National Park Service, Heartland I&M Network

P-13 Age-0 Shovelnose Sturgeon Prey Consumption in the Lower Missouri River

Marcus Miller, United States Army Corp of Engineers

P-14 Columbia River Instream Atlas (CRIA)—a Web-Based How to on Prioritizing Streams for Fish Needs

Jonathan Kohr, WA Dept. of Fish and Wildlife

P-15 The Development of a Respiration Model for Atlantic Salmon (*Salmo salar* L.): Implications for Conservation

Erinn Ipsen¹, David Deslauriers², and Eva Enders¹;
(1)Department of Fisheries and Oceans Canada,
(2)University of Manitoba

P-16 Restoring Lake White Fish As an Integral Component of the Coldwater Fish Community in Otsego Lake, NY

Daniel Garrett¹, Kevin Thomas¹, Samantha Carey¹, Brent Lehman², John R. Foster³, Mark Cornwell³, Scott Wells⁴, and Dan Stich⁵; (1)SUNY Cobleskill, (2)State University of New York, Cobleskill, (3)State University of New York at Cobleskill, (4)New York State Department of Environmental Conservation, (5)State University of New York College at Oneonta

P-17 Reconstructing the Historic Distributions of Mussel Species in Wadeable Streams of Illinois

Yong Cao¹, Kevin Cummings¹, Leon Hinz¹, Alison Stodola¹, Sarah Douglass¹, and Ann Holtrop²; (1)University of Illinois, (2)IL Department of Natural Resources

P-18 An Assessment of Fish Vulnerability to Climate Change

Cody Craig, David Ruppel, and Timothy H. Bonner, Texas State University

P-19 Field Assessment of Fish Passage to Support Connectivity Restoration Decisions in Great Lakes Tributaries

John Rodstrom¹, Allison Moody¹, Austin Milt¹, Matthew Diebel², and Peter B. McIntyre¹; (1)University of Wisconsin-Madison, (2)Wisconsin Department of Natural Resources

P-20 Fish-Habitat Associations in Manistee River, Michigan Tributaries: Implications for Arctic Grayling Restoration

Cameron Goble¹, Nancy Auera¹, Casey Huckins¹, Brian Danhoff¹, Marty Holtgren², and Stephanie Ogren²; (1)Michigan Technological University, (2)Little River Band of Ottawa Indians

Contaminants and Toxicology

P-21 Effects of 2, 4-D Herbicide Treatments Used to Control Eurasian Watermilfoil on Fish and Zooplankton

Nick Rydell, University of Wisconsin-Stevens Point; Daniel Isermann, U.S. Geological Survey, Wisconsin Cooperative Fisheries Research Unit; and Justin A. VanDeHey, University of Wisconsin-Stevens Point

P-22 Toxicity of Copper Sulphate (Fungicide) on the African Catfish Fingerlings

Bilikis Uneke and Chukwuemeka Ikele, Ebonyi State University

Control of Invasive Species

P-24 The Potential Use of a Broadband Auditory Stimulus As a Deterrent for Asian Carps

Erinn Beahan, U.S. Geological Survey Columbia Environmental Research Center; Robin D Calfee, U.S. Geological Survey; and Brooke J. Vetter, University of Minnesota-Duluth

P-25 The Potential Use of Chemical and Auditory Stimuli with Other Control Strategies to Develop an Integrated Pest Management Tool for the Control of Asian Carps

Travis Thompson, Robin D. Calfee, Edward E. Little, Holly Puglis, and Erinn Scott; U.S. Geological Survey

Cooperative Fisheries Research in Marine and Freshwater Systems

P-26 Influence of Anchored Gillnets on Atlantic Sturgeon Bycatch and Behavior in Marine Waters

Dewayne A. Fox¹, Keith Dunton², Matthew Breece³, Lisa Bonacci⁴, Lori M. Brown¹, Kevin Wark⁵ and Michael G. Frisk⁶; (1)Delaware State University, (2)Monmouth University, (3)University of Delaware, (4)New York State Department of Environmental Conservation, (5)Endeavor Fisheries, Inc, (6)Stony Brook University

P-27 Assessing the Retention Rates of External Acoustic Transmitters in Atlantic Sturgeon
Keith Dunton, Monmouth University; Dewayne Fox, Delaware State University; Lisa Bonacci, New York State Department of Environmental Conservation; and Kevin Wark, Endeavor Fisheries, Inc.

P-28 Design and Implementation of a Cooperative Research Bottom Longline Survey in the Gulf of Maine
Loretta O'Brien, Woods Hole Laboratory, Northeast Fisheries Science Center, NMFS, NOAA; and David McElroy, Northeast Fisheries Science Center, NMFS, NOAA

P-29 Preliminary Review of Cusk, Brosme Brosme, Reproductive Biology in U.S. Waters Facilitated By a Cooperative Research Survey
W. David McElroy^{1,2} and Emilee Towle^{1,2}, (1)Northeast Fisheries Science Center, NMFS, NOAA, (2)Integrated Statistics Inc.

P-30 Simple Video System Used to Validate Bottom Stratification in the Design of a Pilot Cooperative Bottom Longline Survey of Rocky Habitat in the Gulf of Maine
Giovanni Gianesin, National Marine Fisheries Service; W. David McElroy, Northeast Fisheries Science Center, NMFS, NOAA; and Loretta O'Brien, Woods Hole Laboratory, Northeast Fisheries Science Center, NMFS, NOAA

P-31 Diving for Data, Fishing for Facts: Examples of Cooperative Research in the Gulf of Mexico
Angela Collins, University of Florida IFAS Extension; Dennis O'Hern, Saint Petersburg Underwater Club; and Richard S. McBride, National Marine Fisheries Service

P-32 Using Commercial Fishing Gear to Collect Bottom Temperatures for Mapping, Species Distribution, Model Validation and By-Catch Avoidance
Dominique Stamand, NOAA

Freshwater Fish Ecology

P-36 March of the Sculpin: Measuring and Predicting Short-Term Movement of Banded Sculpin *Cottus Carolinae*
William Wells, Thomas Johnson, Amy Gebhard, Robert Paine, Lucas Hix, Heather Ferrell, Andrea Engle, and Joshua Perkin; Tennessee Tech University

P-37 Trophic Ecology of Banded Sculpin (*Cottus carolinae*) Across a Stream Size Gradient in Tennessee
Will Curtis, Amy Gebhard, and Joshua Perkin; Tennessee Tech University

P-38 American Shad (*Alosa sapidissima*) Energy Availability and Use during Spawning Migration
Shannon Bayse, Amy Regish, and Stephen McCormick; U.S. Geological Survey

P-39 Using Otolith Microchemistry to Infer Life Histories of American Shad Habitat Use in the Penobscot River, Maine
Kevin Job, University of Maine; Joseph Zydlewski, U.S. Geological Survey, Maine Cooperative

P-40 White Grub in Centrarchidae from the Ohio River Drainage
Evan C. Boone¹, Les Frankland², Jeff Laursen¹, Devon Keeney³; and Robert E. Colombo¹, (1)Eastern Illinois University, (2)Illinois Department of Natural Resources, (3)Le Moyne College

P-41 Ontogenetic Diet Shifts of Blue Catfish and Flathead Catfish
Ashley Stanley¹, James T. Lamer¹, and Mark W. Fritts², (1)Western Illinois University, (2)Illinois Natural History Survey/University of Illinois

P-42 Diet Analysis of Flathead Catfish in the Lower Channelized Missouri River Bordering Nebraska
Dylan Turner, Mark Pegg, and Martin Hamel, University of Nebraska-Lincoln

P-43 What's in the Hump?
David Ward, USGS/Southwest Biological Science Center; and Michael Ward, Associated Regional and University Pathologists

P-44 Environmental Correlates of River Herring Spawning Run Timing in the Chesapeake Bay Watershed
Matthew B. Ogburn, Rob Aguilar, and Anson H. Hines, Smithsonian Environmental Research Center

Freshwater Fish Management

P-45 Fisheries Professional's Attitudes and Views on Walleye-Bass Interactions
Melissa Wuellner, South Dakota State University; Dan Dembkowski, University of Wisconsin-Stevens Point; and Larry M. Gigliotti, United States Geological Survey

P-46 Wild Age-0 Salmonid Abundance and Outmigration in Wisconsin Tributaries to Lake Michigan
Eric Wegleitner¹, Daniel Isermann², and Janice Kerns¹, (1)Wisconsin Cooperative Fishery Research Unit, (2)U.S. Geological Survey, Wisconsin Cooperative Fisheries Research Unit

P-47 Growth and Body Condition of Channel Catfish and Channel Catfish x Blue Catfish Hybrids in Two Kansas Impoundments
Ben Neely, Sean Lynott, and Jeff Koch; Kansas Department of Wildlife, Parks and Tourism

P-48 Exploitation of American Paddlefish in the Mississippi River
Nick Kramer¹, Quinton Phelps², and Sara Tripp², (1)Southeast Missouri State University, (2)Missouri Department of Conservation

P-49 Shovelnose Sturgeon Recruitment Sources and Inter-River Movement of Shovelnose and Lake Sturgeons in Pools 20-26 of the Upper Mississippi River: Implications for Sturgeon Conservation
Ryan Hupfeld, Iowa Department of Natural Resources; Quinton Phelps, Missouri Department of Conservation; and Gregory W. Whitley, Southern Illinois University

P-50 Comparison of Return-to-Angler for Three Trout Strains in a Tailwater Fishery
Kyle Bales¹, Jason Sorensen¹, and Chris Longhenry², (1)South Dakota Game, Fish, and Parks, (2)South Dakota Game, Fish and Parks

P-51 Evaluation of Growth and Survival on the Recruitment of Chinook Salmon in Two Southeast Alaska Rivers
Stephanie Berkman and Trent M. Sutton, University of Alaska Fairbanks

P-52 Estimating the Population Size of DeGray Lake Hybrid Striped Bass: A Pilot Study
Sean Lusk and Thomas Hobbs, Arkansas Game and Fish Commission

Habitat and Water Quality

P-54 Influence of Total Phosphorus Variability on the Fishery Resources in the Bay of Quinte
Monir Hossain¹, George Arhonditsis², Robert G. Randall¹, and Marten A. Koops¹, (1)Fisheries and Oceans Canada, (2)University of Toronto

P-55 Tracking Hypoxia Exposure in Yellow Perch with Otolith Chemistry: Spatial Variation in Lake Erie
Melvin A. Samson and Karin E. Limburg, State University of New York, College of Environmental Science and Forestry

P-56 Mapping and Monitoring Aquatic Vegetation in Lake Erie for Grass Carp Risk Assessment
Nicole King¹, Jenny Hanson², and Patrick Kocovsky², (1)The University of Toledo, (2)U.S. Geological Survey

P-57 Rootmat and Non-Flow Habitat Contributions to Total Site Richness in Urban Streams of the Kansas City Metropolitan Area, USA
Barry Poulton, U.S. Geological Survey; and Jing Tao, Kansas City Water Services Department

P-58 Dam Removal and Fish Passage Improvement Influence Fish Assemblages in the Penobscot River, Maine

Jonathan Watson¹, Ian Kiraly², Daniel B. Hayes³, Joseph Zydlewski⁴, and Stephen Coghlan Jr.¹, (1)University of Maine, (2)Gomez and Sullivan Engineers P.C., (3)Michigan State University, (4)U.S. Geological Survey, Maine Cooperative Fish and Wildlife Research Unit

P-59 Predation of Freshwater Fish in Elevated Carbon Dioxide Environments

Caleb Hasler¹, Stephen Midway², Tyler Wagner³, and Cory D. Suski¹, (1)University of Illinois at Urbana-Champaign, (2)Louisiana State University, (3)U.S. Geological Survey, Pennsylvania Cooperative Fish & Wildlife Research Unit

P-60 Relative Importance of Water-Quality Stressors in Predicting Fish Community Responses in Midwestern Streams

Michael R. Meador, U.S. Geological Survey

P-61 Three-Dimensional Visualization of Acoustic Doppler Current Profiler Data in the Missouri River Basin

Edward Bulliner, Susannah O. Erwin, Caroline M. Elliott, and Robert B. Jacobson, U.S. Geological Survey

P-62 A Comparison of Fish Communities in Contiguous Backwater and Vegetated Impounded Areas of Pool 19, Upper Mississippi River

Eli Lampo¹, James T Lamer¹, Brent Knights², Jon Vallazza², and James Larson², (1)Western Illinois University, Department of Biological Sciences, (2)Upper Midwest Environmental Sciences Center, U.S. Geological Survey

P-63 Measuring the Influence of Flow Regime on Biological Communities: Investigating Abiotic and Biotic Determinants of Algal, Macroinvertebrate, and Fish Assemblage Structure

Brittany Furtado and Daniel Magoulick, Arkansas Cooperative Fish & Wildlife Research Unit

P-64 Monitoring a Restored Chute and Backwater Area on the Lower Platte River Nebraska

Caleb Uerling, Mark A. Pegg, and Martin J. Hamel; University of Nebraska - Lincoln

P-65 Stream Connectivity Effects on Island Backchannel Habitat Conditions Under Regulated Flows in the Lower Osage River

John Brant, University of Missouri; Elisa Baebler, AFS; Del Lobb, Missouri Department of Conservation; and Craig Paukert, U.S. Geological Survey; University of Missouri; Missouri Cooperative Fish and Wildlife Research Unit

P-66 ELOHA Atchafalaya

A. Raynie Harlan¹, Michael D. Kaller¹, William E. Kelso¹, Dan Kroes², and Tiffany Pasco¹, (1)Louisiana State University Agricultural Center, (2)USGS

P-67 Relationship Between Water Temperature and Flow Rates for Missouri Streams

Joanna Whittier, University of Missouri; Bridget Whitehead, University of Missouri; Craig Paukert, U.S. Geological Survey; University of Missouri; Missouri Cooperative Fish and Wildlife Research Unit; and Del Lobb, Missouri Department of Conservation

Management of Marine Fisheries

P-68 Scemfis (Science Center for Marine Fisheries): Programs and Progress

Eric N. Powell, University of Southern Mississippi and Roger Mann, Virginia Institute of Marine Science

P-69 Identifying the Historical Footprint of the Surfclam *Spisula Solidissima* and Habitat Relationships from a Long-Term Dataset of Death Assemblages and Sedimentology

Kelsey Kuykendall¹, Eric N. Powell², Roger Mann³, and Paula Moreno¹, (1)*The University of Southern Mississippi, Gulf Coast Research Laboratory*, (2)*University of Southern Mississippi*, (3)*Virginia Institute of Marine Science*

P-70 DNA Fragmentation in Blue Mussel Gametes: Aquaculture and Fisheries Implications

Michael Kjelland^{1,2}, Carmen López-Fernández³, Cuca Perez-García³, and Jaime Gosálvez³, (1)*Conservation, Genetics & Biotech, LLC*, (2)*U.S. Army Engineer Research and Development Center, Environmental Laboratory*, (3)*Universidad Autónoma de Madrid*

P-71 Social Resilience in the Maine Lobster Fishery
Mackenzie Mazur and Teresa R. Johnson, *University of Maine*

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Julian Ashford, *Old Dominion University* and Eric Robillard, *National Marine Fisheries Service*

P-78 Estimating Delayed Mortality of Gray Triggerfish Using Surface and Bottom Tagging
Brendan Runde¹, Paul Rudershausen¹, Beverly Sauls², and Jeffrey A. Buckel¹, (1)*North Carolina State University*, (2)*Florida Fish and Wildlife Conservation Commission*

P-79 Alternating Habitat Use By Juvenile Flatfish Based on Thermal Regime in the Eastern Bering Sea
Cynthia Yeung, *Alaska Fisheries Science Center, National Marine Fisheries Service, NOAA*; Dan Cooper, *NOAA Alaska Fisheries Science Center*; and Mei-Sun Yang, *Alaska Fisheries Science Center/NMFS/NOAA*

P-80 Conducting a Pilot Trap Survey on New Jersey Artificial Reefs for Black Sea Bass, Tautog, and Lobster

Douglas Zemeckis^{1,2}, Olaf Jensen¹, and Peter Clarke³, (1)*Rutgers University*, (2)*University of Massachusetts Dartmouth*, (3)*New Jersey Department of Environmental Protection*

P-81 Spatiotemporal Heterogeneity in Cutlassfish (*Trichiurus* spp.) Population Dynamics Reflects Responses to Different Regional Environmental Conditions in China Seas

Baochao Liao, *Department of Fisheries*; Yan Jiao, *Virginia Tech* and Qun Liu, *Ocean University of China*

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Loranzie Rogers, Trevor Keyler, and Allen Mensinger, *University of Minnesota Duluth*

P-87 Growth Rate Analysis of Coastal Wetland and Near Shore Great Lakes Fish Using Otolith Dating
Jeremiah Shrovnal¹, P. Forsythe¹, Christopher Houghton¹, and Collin Moratz², (1)*University of Wisconsin-Green Bay*, (2)*University of Wisconsin-Green Bay*

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Kasey Yallaly and Gregory W. Whitley, *Southern Illinois University*

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Eric Wegleitner, *Wisconsin Cooperative Fishery Research Unit* and Daniel Isermann, *U.S. Geological Survey, Wisconsin Cooperative Fisheries Research Unit*

P-90 Evaluation of Asian Carp Net Avoidance Behavior for Capture Enhancement

Karl Anderson, USGS, Columbia Environmental Research Center and Duane Chapman, U.S. Geological Survey

P-91 A Novel Approach for Detecting Minute Electrical Fields Where Blue Catfish (*Ictalurus furcatus*) and Flathead Catfish (*Pylodictis olivaris*) Surface When Electrofishing

Zachary Ford¹, Andrew Turner¹, Jan Dean², and Josh Roberts³, (1)Missouri Department of Conservation, (2)Dean Electrofishing, LLC, (3)Missouri State University

P-92 Effectiveness of DNA Barcoding for Identifying Piscine Prey Items in Stomach Contents of Piscivorous Catfishes

Zach Moran, Arkansas Tech University

P-93 Freeze Brand Retention in Channel Catfish and Channel Catfish x Blue Catfish Hybrids

Sean Lynott, Ben Neely, and Jeff Koch, Kansas Department of Wildlife, Parks and Tourism

P-94 Survival of Gizzard Shad after Dummy Tag Implantation

Robert Hanten¹, Hilary Meyer¹, Mark Fincel¹, and Jacob Davis², (1)South Dakota Game, Fish and Parks, (2)South Dakota

P-95 Detection Efficiency of Acoustic Transmitters at Priority Locations within Lake Sharpe

Michael J. Greiner¹, Robert Hanten², Hilary Meyer², and Mark Fincel², (1)South Dakota Department of Game, Fish, and Parks, (2)South Dakota Game, Fish and Parks

P-96 Quantification of Daily Otolith Increments in Young of Year Asian Carp

Emily A. Szott¹, James T. Lamer¹, James Larson², Brent Knights², Jon Vallazza², Levi Solomon³, Rich Pendleton³, and Andrew F. Casper³, (1)Western Illinois University, (2)Upper Midwest Environmental Sciences Center, U.S. Geological Survey, (3)Illinois River Biological Station, Illinois Natural History Survey, Havana Field Office

P-97 Electric Dispersal Barriers on the Chicago Sanitary Ship Canal: Comparative Testing of Invasive Carp and Native Fishes Employed As Surrogates

F. Michael Holliman, Fish Research and Development, LLC and K. Jack Killgore, U. S. Army Engineer Research and Development Center

P-98 A Multivariate Approach to Assessing Harvest Regulations

Leandro E. Miranda¹, Michael Colvin², and Andrew Shamaskin², (1)U.S. Geological Survey, Mississippi Cooperative Fish and Wildlife Research Unit, (2)Mississippi State University

Population Dynamics

P-99 Yellow Perch Population Variability in South Dakota Glacial Lakes

Melissa Wuellner, South Dakota State University and Dan Dembkowski, University of Wisconsin-Stevens Point

P-100 Spatial and Temporal Variation of Black Bass Population Dynamics in the Upper Ohio River: Insights from Ten Years of Standardized Sampling
Curtis Wagner and Jeremy Pritt, ODNR Division of Wildlife

P-101 Population Demographics of Gars and Bowfin in the Wabash and Lower Illinois River Watersheds

Sarah Molinaro¹, Sarah Huck¹, Solomon David², and Jeffrey A. Stein¹, (1)University of Illinois, (2)John G. Shedd Aquarium

P-102 Smallmouth Bass Population Dynamics in an Urban Iowa River

Michael J. Weber, Iowa State University

P-103 Comparison of Sauger Population Demographics Among Five Ohio River Navigation Pools

Neil Rude¹, Alex Loubere², and Gregory Whitley¹, (1)Southern Illinois University, Center for Fisheries, Aquaculture, and Aquatic Sciences, (2)Southern Illinois University

P-104 Population Dynamics of Three Benthic Chub Species (*Macrhybopsis* spp.) of the Lower Missouri River

Janice L. Albers, Mark L. Wildhaber, and Nicholas S. Green, U.S. Geological Survey

P-105 Blue Catfish Population Characteristics and Standard Sampling Methods in Tennessee Reservoirs

Cole Harty and Phillip Bettoli, Tennessee Cooperative Fishery Research Unit

P-106 Density-Dependent Overwinter Growth and Survival of Juvenile Bigheaded Carp

Justin Seibert, David P. Coulter, Elizabeth Tristano, Alison Coulter and James E. Garvey, Southern Illinois University

P-107 Using Bayesian Method and Deviance Information Criterion to Verify Uncommonly Used Fish Growth Functions

Baochao Liao, Department of Fisheries; Yan Jiao, Virginia Tech and Qun Liu, Ocean University of China

Best Student Poster Presentations

P-7 Using Maxent to Generate a Fundamental Niche Model for Diverse Mussel Assemblages within the Northeastern Ozark Region of Missouri

Kayla Key¹, Garth Lindner¹, Kristen Bouska², Amanda Rosenberger³ and Stephen McMurray⁴, (1) Missouri Cooperative Fish & Wildlife Research Unit, University of Missouri, (2)USGS - Upper Midwest Environmental Science Center, (3)U.S. Geological Survey Missouri Cooperative Fish and Wildlife Research Unit, University of Missouri, (4)Missouri Department of Conservation

P-8 Development of a Fish-Based Index of Biotic Integrity for Lakes in Eastern South Dakota

Daniel Nelson¹, Melissa Wuellner¹, Nels Troelstrup Jr.¹, and Brian Blackwell², (1)South Dakota State University, (2)South Dakota Game, Fish, and Parks

P-23 Silver Carp (*Hypophthalmichthys molitrix*) Recruitment Sources in the Middle Mississippi River

Michael Wolf, Southeast Missouri State University; Kevin Haupt, Missouri Department of Conservation and Southeast Missouri State University; Quinton Phelps, Missouri Department of Conservation and Gregory Whitley, Southern Illinois University, Center for Fisheries, Aquaculture, and Aquatic Sciences

P-33 Habitat Use of Juvenile Burbot and Patterns in Fish Assemblage Structure in a Tributary of the Kootenai River

Zachary S. Beard¹, Michael C. Quist², Ryan S. Hardy³ and Tyler J. Ross³, (1)Idaho Cooperative Fish and Wildlife Research Unit, (2)U.S. Geological Survey, Idaho Cooperative Fish and Wildlife Research Unit, (3)Idaho Department of Fish and Game

P-34 Seasonal Movements of Paddlefish (*Polyodon spathula*) in Harry S. Truman Reservoir, Missouri

Christopher Schwinghamer¹, Sara Tripp², and Quinton Phelps², (1)Southeast Missouri State University, (2)Missouri Department of Conservation

P-35 Using Habitat, Climate, and Biotic Interactions to Predict Co-Occurring Smallmouth Bass and Largemouth Bass in the Ozark National Scenic Riverways

Jacob Schwoerer, Missouri Cooperative Fish and Wildlife Research Unit, University of Missouri-Columbia; Hope Dodd, National Park Service; and Craig Paukert, U.S. Geological Survey; University of Missouri; Missouri Cooperative Fish and Wildlife Research Unit

P-53 Developing Non-Lethal Methodology for Testing Thermal Optima and Tolerance in Small Prairie Stream Minnows

Rory Mott, University of Missouri; and Amanda Rosenberger, U.S. Geological Survey Missouri Cooperative Fish and Wildlife Research Unit, University of Missouri

P-72 A Pre-Restoration Assessment of Reef Spawning Habitat in Saginaw Bay

Nicholas Kalejs¹, Tomas O. Höök¹, Mitchell Zischke¹, Jayson Beugly², Paris Collingsworth¹, Edward F. Roseman³, Robert Hunter³, and David G. Fielder⁴; (1)Purdue University, (2)Illinois—Indiana Sea Grant and Purdue University, (3)USGS Great Lakes Science Center, (4)Alpena Fishery Research Station

P-73 Condition As an Indicator of Resilience to Hypoxia By Atlantic Croaker in the Northern Gulf of Mexico

Alfonso Cohuo, Benjamin Walther and Matthew Altenritter, Texas A&M University—Corpus Christi

P-74 Seeking the Sun in Deep, Dark Places: Mesopelagic Sightings of Ocean Sunfishes (Molidae)

Natasha Phillips, Queen's University Belfast

P-75 Ovarian Development and Maturity of Southern Flounder in the North-Central Gulf of Mexico

Morgan M. Corey¹, Nancy J. Brown-Peterson¹, Robert T. Leaf¹, Samuel D. Clardy², and Mark S. Peterson¹; (1)University of Southern Mississippi, (2)Gulf Coast Research Laboratory

P-76 Survival of Red Deepsea Crab *Chaceon quinquedens* Smith, 1879, Larvae in Cultivation: Effects of Diet and Temperature

Nivette Pérez-Pérez¹, Matthew Poach², Bradley Stevens³, Stacy Smith¹, and Gulnihal Ozbay¹, (1) Delaware State University, (2)NOAA/NMFS/NEFSC Howard Marine Sciences Laboratory, (3)University of Maryland Eastern Shore

P-82 Don't Put a Fish out of Water: Developing Sampling Protocols to Integrate Fish into Wetland Management Decisions

Julia Guyton, University of Missouri; Craig Paukert, U.S. Geological Survey; University of Missouri; Missouri Cooperative Fish and Wildlife Research Unit; Elisabeth Webb, U.S. Geological Survey; University of Missouri; Missouri Cooperative Fish and Wildlife Research Unit; and Frank Nelson, Missouri Department of Conservation

P-83 A Comparison of Tagging Methods for Mountain Sucker

Seth Fopma¹, David Schumann¹, Matthew Wagner², Katie Bertrand¹ and Brian Graeb¹; (1)South Dakota State University, (2)Mississippi Department of Wildlife, Fisheries, and Parks

P-84 Survival of Upper Piedmont Stream Fishes Implanted with a Passive Integrated Transponder Tag

Josh Cary, Morgan Reed, Jessica Holbrook, Thomas Austin, Seog Hyun Kim, Kasey Pregler, and Yoichiro Kanno; Clemson University

P-85 Evaluation of Prepositioned Areal Electrofishing Devices and Fixed Underwater Videography for Characterizing Riverine Fish Assemblages

Philip Branigan, Idaho Cooperative Fish and Wildlife Research Unit; Michael C. Quist, U.S. Geological Survey, Idaho Cooperative Fish and Wildlife Research Unit; Brad Shepard, B.B. Shepard and Associates and Susan Ireland, Kootenai Tribe of Idaho

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For more information, contact General Co-chairs Kerry Flaherty-Walia (Kerry.Flaherty-Walia@MyFWC.com) and Travis Tuten (Travis.Tuten@MyFWC.com).



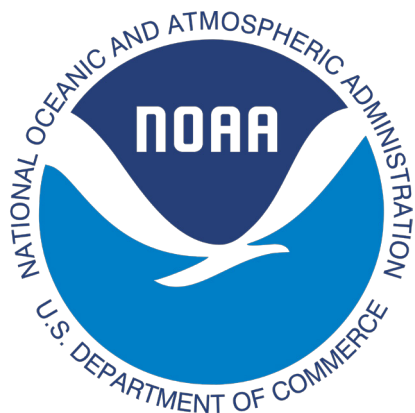
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