



Society *for* Freshwater Science



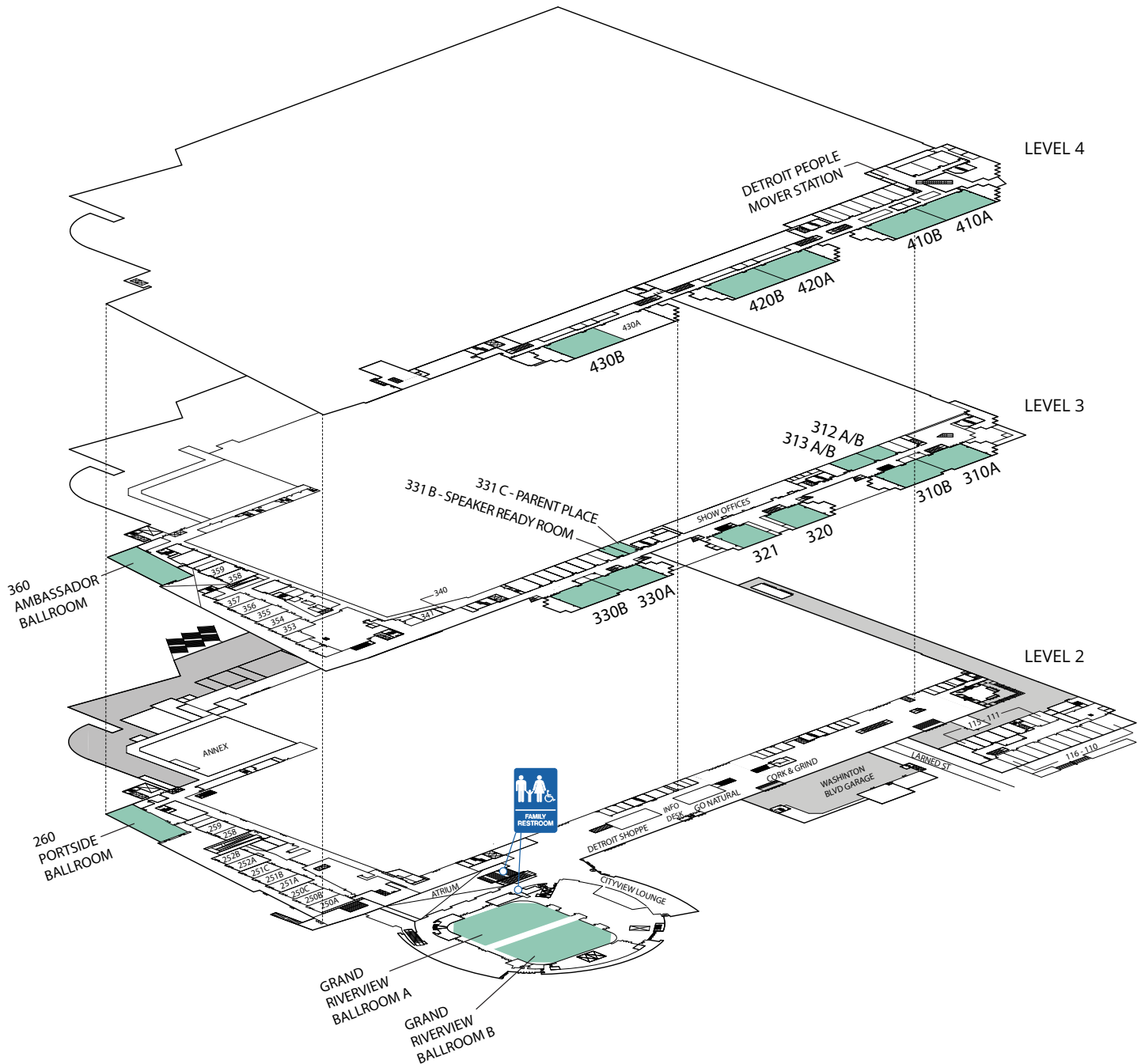
Detroit, MI — May 20–24 // Cobo Center

2018 Annual Meeting



Cobo Center — Floor Plans

1 Washington Blvd, Detroit, MI 48226



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Institute for Great Lakes Research

**Complex Issues,
Multidisciplinary Approach**

*Central Michigan University's Institute
for Great Lakes Research conducts
collaborative research and offers
educational opportunities on the ecology
of the Great Lakes. Find out more at
www.cmich.edu/colleges/se/iglr.*

Registration and Check-In Information

Registration and check in for the meeting will be available all week in the Grand Riverview Ballroom A of the Cobo Center. Please check in upon your arrival at the meeting in order to receive your name badge and other important materials and information.

REGISTRATION HOURS

Sunday, May 20—4:00pm to 10:00pm
Monday, May 21—8:00am to 11:00pm
Tuesday, May 22—8:00am to 7:00pm
Wednesday, May 23—8:00am to 4:00pm
Thursday, May 24—8:00am to 5:00pm

MEETING UPDATES

Keep up to date with changes by checking for updates on the bulletin board next to registration, on the guidebook app and on the meeting website.

RECEIPTS AND LETTERS OF PARTICIPATION

Your registration confirmation that was emailed to you when you registered for the meeting will serve as your receipt. In keeping with our conservation efforts, we will not provide printed receipts to attendees on site at the meeting. If you have misplaced your original receipt and need another copy emailed to you, visit the Registration Desk for assistance.

MESSAGES

Message boards will be located near registration. Feel free to post messages, CV's, and job opportunities during the meeting.

IDENTIFICATION

Your conference name badge is required for entry to all sessions, activities and social events and regardless of your age, a valid picture ID is required for service of alcoholic beverages.

WIFI

Connect to *CoboFree* and agree to the terms and conditions.



Jerri Bartholomew, *Ich* (Glass, metal, found objects). 2018.
Ichthyophtherius multifiliis is a common parasite of fish, found widely in natural freshwaters.
Presenter for Special Session II.



2018—DETROIT, MI
May 20–24 // Cobo Center



About the Society for Freshwater Science

*SFS is an international scientific organization founded in 1953, whose purpose is to promote further understanding of freshwater ecosystems (rivers, streams, lakes, reservoirs, and estuaries) and ecosystems at the interface between aquatic and terrestrial habitats (wetlands, bogs, fens, riparian forests and grasslands). The society fosters exchange of scientific information among the membership, and with other professional societies, resource managers, policy makers, educators, and the public, sponsoring the journal *Freshwater Science*. Members come from 26 nations worldwide. Society members study the genetics to community structure of freshwater organisms, freshwater ecosystem function, physical processes that affect freshwaters, and linkages between freshwater ecosystems and surrounding landscapes. Applied aspects of their science include habitat and water quality assessment, conservation, fisheries and invasive species management, integrated water resource management, and restoration. Further information can be found at <https://freshwater-science.org/>.*

Navigating Boundaries in Freshwater Science:

In freshwater science and its applications, boundaries and divisions can be paradoxical. On the one hand, freshwater scientists must bridge boundaries in nature (e.g., land-water, ground-water-surface water, lake-stream, freshwater-marine), connect disciplines (e.g., earth-life-social sciences) and cross cultural divides to advance basic understanding, open new lines of investigation, and address humankind's most pressing problems. Moreover, solutions to environmental challenges require improved translation of science and a richer, reciprocal linkage across boundaries between science and society. On the other hand, boundaries are important; absolute integration yields homogenization. Much as decades of research reveal the value of environmental heterogeneity, a more vibrant and relevant freshwater science community requires increased disciplinary and socio-cultural diversity. Our challenge, then, is navigating boundaries and understanding them, not eliminating them. The SFS of the future will be defined by its treatment of such dynamic tensions, as, indeed, seems likely for human societies in general.

Our goal is to focus the SFS community on navigating and understanding boundaries during our 64th annual meeting. In some respects this is an old theme for our society, but it is also one with many important new dimensions appropriate to the place and time of this meeting. Positioned on a river linking lakes and encompassing an international border, the city of Detroit also has its own history of socio-cultural diversity, boundaries, and divisions, providing a rich, heterogeneous geographic and cultural context for our gathering. The meeting's program will emphasize science focused on crossing habitat boundaries and linking disciplines, increase participation and perspectives connecting nations and cultures to address freshwater challenges, and guide us toward a more purposeful relationship between science and society to improve translation of the SFS community's science, education and service into action. In keeping with this theme and unique context, meeting activities will emphasize the sources of inspiration shared by our community, as well as our growing disciplinary and socio-cultural diversity.

For more information visit freshwater-science.org or

sfsAnnualMeeting.org

Meeting Organizers

2018 Program Co-Chairs

Co-Chair: *David Walters*

Co-Chair: *Jeff Wesner*

Additional Members

Scott Tiegs

Laura Craig

Jen Tank

David Costello

President

Colden Baxter

Local Arrangements

Chair: *Donna Kashian*

Steve Francoeur

Eric Benbow

Peter Levi

Darrin Hunt

Al Steinman

Student Resource Committee (SRC) Officers

Chair: *Andrew Sanders*

Board of Directors Representative and Local Meeting Coordinator

Darrin Hunt

Silent Book Auction

Martha Dee

Live Auction

Sophie Higgs

SRC Workshop

Rachel Voight

Student-Mentor Mixer

Courtney Larson

Merchandise

Andrea Fitzgibbon,

Raissa Mendonca,

Sean Nussle

Undergraduate Awards

Anna Vincent, Lisa Kim

Social Media Managers

Katherine O'Reilly, Kara Prior

Education & Diversity

Paul Risteca

Early Career Committee

Co-Chair: *Natalie Griffiths*

Co-Chair: *Meryl Mims*

Zacchaeus Compson

Michael Hassett

Ashley Helton

Erin Hotchkiss

Marc Peipoch

PJ Torres

Society Officers & Information

Executive Committee

President: *Colden Baxter*

Vice President: *Amy Marcarelli*

Past-President: *Emily Bernhardt*

President-Elect: *Jennifer Tank*

Vice President-Elect: *Todd Royer*

Treasurer: *Mike Swift*

Secretary: *Sally Entrekin*

FC Chair: *Kim Haag*

PIP Rep: *Ayesha Burdett*

Board of Directors

President: *Colden Baxter*

Past-President: *Emily Bernhardt*

President-Elect: *Jennifer Tank*

Vice President: *Amy Marcarelli*

Past Vice President: *Steve Thomas*

Vice President-Elect: *Todd Royer*

Treasurer: *Mike Swift*

Secretary: *Sally Entrekin*

Academic Rep: *Walter Dodds*

Early Career Rep: *Natalie Griffiths*

Non-Academic Rep: *Stuart Findley*

International Delegate: *Angus Webb*

SRC Representative: *Darrin Hunt*

PC Chair: *Michelle Baker*

FC Chair: *Kim Haag*

Website and Social Media

We encourage you to use the meeting website and the detailed online schedule for all current information and to navigate the meeting.

Meeting Website

<https://sfsannualmeeting.org>

Society Website

<https://freshwater-science.org>

Mobile App/Guidebook

<http://guidebook.com/g/sfs18>

Facebook

<https://facebook.com/FreshwaterScience>

Twitter

[#2018sfs](https://twitter.com/benthosnews)

Conference Planner/Meeting Management

USU Conference Services

Joy Brisighella

435-797-9270

joy.brisighella@usu.edu

Kylie Downs

435-797-0035

kylie.downs@usu.edu

Recording Policy

Please! No recording of individual talks or sessions (oral or poster). Audio taping, videotaping, or photographing of presentations is not allowed at the meeting. Thank you for your cooperation.



SFS Diversity Statement

The Society for Freshwater Science is dedicated to promoting diversity among its members and welcomes and encourages participation from all, regardless of ethnicity, sexual orientation, gender identity, socioeconomic status, physical or mental difference, religion, age, or national origin. The SFS is inclusive and accepting of all people and built on tolerance, respect, and a welcoming spirit at all of our activities. We strive to actively promote diversity across all levels of our society including members, leaders, committees, and staff. We value a diverse community and believe it fosters a richer understanding of freshwater ecosystems and conservation of global freshwater resources. Members with questions, comments or concerns about SFS diversity issues are encouraged to raise them with a member of the SFS Education and Diversity Committee.

This statement was approved by SFS Membership at 2016 SFS Business Meeting

SFS Annual Meeting Code of Conduct

All members registering for the Society for Freshwater Science Annual Meeting must agree to abide by the following Code of Conduct:

The Society of Freshwater Science is an international scientific organization whose purpose is to promote further understanding of freshwater ecosystems and ecosystems at the interface between aquatic and terrestrial habitats. SFS members and authors of SFS publications are expected to adhere to the SFS Science-Based Policy and the SFS Statement of Ethics.

SFS meetings, open to SFS members and those interested in freshwater sciences, are among the most respected meetings in the freshwater science community. SFS is committed to providing a safe, productive and welcoming environment for all meeting participants and staff. All participants including, but not limited to, attendees, speakers, volunteers, exhibitors, SFS staff, service providers and others are expected to abide by this SFS Meetings Code of Conduct. This Code of Conduct applies to all SFS meeting-related events including those sponsored by organizations other than SFS but held in conjunction with SFS events, in public or private facilities.

Expected Behavior

- *Communicate openly with respect and consideration for others, valuing a diversity of views and opinions.*
- *Avoid personal attacks directed toward other attendees, participants, SFS staff and suppliers/vendors.*
- *Be mindful of your surroundings and of your fellow participants. Alert SFS staff if you notice a dangerous situation or someone in distress.*
- *Respect the rules and policies of the meeting venue, hotels, SFS contracted facility, or any other venue.*

- *Request permission from speakers before recording or taking photographs during their presentation. Turn off any ringers or otherwise disrupting devices during oral or poster sessions.*
- *All members should feel empowered to speak up or intervene if they observe discriminatory behavior directed at others*

Unacceptable Behavior

It is important that our meeting be a place where no attendee or staff is ever belittled, criticized or made to feel unsafe. The following behavior will not be tolerated:

- *Harassment, intimidation or discrimination in any form.*
- *Physical, written, or verbal abuse of any attendee, speaker, volunteer, exhibitor, SFS staff member, service provider or other meeting guest.*
- *Examples of unacceptable behavior include, but are not limited to, verbal comments related to gender, sexual orientation, disability, physical appearance, body size, race, religion, national origin, inappropriate use of nudity and/or sexual images in public spaces or in presentations, threatening or stalking any attendee, speaker, volunteer, exhibitor, SFS staff member, service provider or other meeting guest.*

Reporting Unacceptable Behavior & Consequences

- *All attendees and staff are expected to abide by the SFS code of ethics.*
- *Anyone experiencing or witnessing behavior that constitutes an immediate or serious threat to public safety is advised to contact 911 and locate a house phone and ask for security.*
- *Anyone requested to stop unacceptable behavior is expected to comply immediately.*
- *If you are the subject of unacceptable behavior or have witnessed any such behavior, please immediately notify the SFS Executive Director (Andy Leidolf), any SFS officer, or our conference services representative (Joy Brisighella).*
- *Notification can also occur by emailing your concern to the SFS Executive Director or our conference services representative (exec.director@freshwater-science.org or joy.brisighella@usu.edu, respectively).*
- *After receiving a report of inappropriate behavior, our conference services representative will assess the report and work with the complainant to determine the most appropriate response. SFS is committed to protecting the privacy of all individuals involved in the incident to the greatest extent possible. When necessary, the SFS leadership will be notified that a complaint has been received so it can consider appropriate actions.*
- *The SFS leadership reserves the right to take any lawful action we deem necessary in response to a violation of this code. This includes, but is not limited to, the immediate removal from the meeting without warning or refund.*

Ensuring Inclusion & Diversity in the Future

The SFS leadership and the SFS Education and Diversity Committee also encourage anyone to contact SFS officers or members of the SFS Education and Diversity Committee (<https://freshwater-science.org/my-sfs/diversity-inclusivity>) regarding ways in which the society can improve inclusion & diversity and encourage both a stimulating and supporting atmosphere.

Version 2. Approved by SFS Board of Directors 11 April 2018

Version 1. (Including text through Unacceptable Behavior) approved by SFS Board of Directors 14 Dec 2016

About Detroit

From the SFS 2018 Local Arrangements Committee

Food & Drink:

Downtown (20 min walk or less from COBO):

- *Anchor Bar (\$)*—Old union bar with typical American bar fare. Great sliders.
- *Grand Trunk Pub (\$\$)*—Located in a historic train ticket station, great beer selection. Happy Hour. Menu is hearty sandwiches, fish and chips, Shepherd's pie, etc.
- *Bangkok Thai (\$)*—Popular lunch restaurant—watch out, if you order food "hot", it's hot!
- *Briggs Sports Bar*—Sports bar and weekend night dancing (LGBTQ)
- *Zef's Coney Island (\$)*—Greek diner fare, breakfast all day
- *American and Lafayette Coney Islands (\$)*—Coney dogs! (Hot dog covered in chili and topped with onion and mustard—a Detroit classic.)
- *Food trucks at Campus Martius (\$-\$)*—There is always a rotating selection of food trucks in Downtown's main park during lunch hours. Favorites: the Mac Shack (Mac and cheese), Mito's Doner (Turkish wraps), El Guapo (tacos and burritos), Hunter House (sliders), Mean Weenie (loaded hot dogs)
- *Dime Store (\$\$)*—Breakfast and brunch—upscale diner fare
- *Avalon Cafe and Bakery*—A Detroit bakery that also has a location near Wayne State. Stop by for fresh coffee and amazing baked goods.
- *Roasting Plant (\$\$)*—Great coffee that's ground fresh for each order.
- *Cadillac Square Diner (\$)*—Greek diner typical of Metro Detroit (salads, sandwiches, coney, breakfast all day)
- *The Hudson Cafe (\$-\$)*—Great breakfast food!
- *Parc*—Located in the middle of Campus Martius in the center of downtown.

Downtown (>20 min walk from COBO):

- *Cliff Bell's (\$-\$-\$)*—Historic jazz venue. Tuesday nights have a live performance, no cover.
- *Astoria Bakery (\$)*—Bakery in Greektown
- *Vincente's Cuban Cuisine (\$-\$-\$)*—Free salsa dancing with instructions on Saturdays!
- *Detroit Brewing Company (\$\$)*—Downtown's brewery
- *Punch Bowl Social (\$-\$-\$)*—Nightlife! This place has food, cocktails, bowling, video games, shuffleboard, karaoke rooms, and more.
- *Steve's Detroit Deli*—Old school deli sandwiches
- *London Chop House (\$\$\$\$)*—If you really need to impress someone.
- *Roast (\$\$\$)*—Expensive steakhouse, but they do have a very affordable happy hour menu.
- *Greek Town*: Lots of good food options in this historic district including Greek food (duh!), Pizzapopolis Chicago style pizza, Jacoby's German Biergarten, and more.
- *Sweetwater Tavern*—Some of the best wings in Detroit!
- *Ready Player One*—Bar arcade!
- *Checker Bar*—Burgers and a bar.
- *Greenwich Time Pub*—More burgers and bar!
- *Brigg's Sports Bar*—Gay sports bar w/ rooftop deck and daily specials.



©Steven Depolo

Parks and Museums

- *Detroit Institute of Arts*
- *Charles H. Wright museum of African American History*
- *Motown Museum*
- *Detroit Historical Museum*
- *Belle Isle*
- *Palmer Park*
- *Riverfront*
- *Mariner's Church*
- *Heidelberg Project* (<https://www.heidelberg.org/>)

Music Events

May 20

- *The Doo Wop Project (Doo Wop)* @ Orchestra Hall, Max M. Fischer Music Center
- *Jarrold Champion (Jazz—daytime show)* @ Cliff Bell's

May 21

- *Shilpa Ray (Blues/punk)* @ El Club

May 22

- *Alexis Lombre (Jazz)* @ Cliff Bell's
- *Dennis Coffey (Funk/jazz)* @ Northern Lights

May 23

- *Trunino Lowe Quintet (Jazz)* @ Cliff Bell's
- *Str8 jazz no chaser* @ Northern Lights

May 24

- *Mary Ocher (Performance art)* @ PJ's Lager House
- *Pete Siers Organ Trio (Jazz)* @ Cliff Bell's
- *Lazy Thursday (Jazz)* @ The Whiskey Parlor

May 26-28

- *Movement (Famous Detroit Electronic Music Festival)* @ Hart Plaza



Meeting Site & Transportation

Cobo Center

Cobo Center is the 17th largest convention center in the United States. Built by the City of Detroit, it was originally opened in 1960 and named Cobo Hall in honor of former Detroit Mayor Albert E. Cobo (1950-1957).

Cobo is accessible to all downtown Detroit hotels and entertainment districts via the Detroit People Mover, Detroit's elevated railway system, and a station on the third floor of Cobo Center.

It is recommended that we use the Cobo Rooftop Parking where there is more room. From front of Cobo Center, go north to Congress St. Turn left, stay in right lane to circular ramp between Second and Third Streets. From the Lodge US-10 south, take the Howard St. exit to Fort St. Left on Fort one block and turn right on Third St. Proceed to circular ramp to roof parking.

Transportation

Parking Resources

Parking at the Cobo Center is \$15 per day with no overnight parking allowed. SFS contracted hotels have daily overnight parking rates, but lower rate lots are also located along Woodward Avenue convenient to the Q-Line transportation.

<https://detroit.bestparking.com/neighborhoods/>

<http://www.detroitmi.gov/parking>

QLine

Costs: \$1.50/3 hours, \$3.00/day, \$30.00/month

Tickets: <https://qlinedetroit.com/tickets/>

People Mover

Costs: \$0.75/single fare, \$10/month pass

Tickets: <https://passes.thepeoplemover.com/collections/all>

Map: <http://www.thepeoplemover.com/wp-content/uploads/2017/07/2017-DDP-Downtown-Wayfinding-Map.pdf>

Lyft & Uber

<https://www.lyft.com/fare-estimate/>

<https://www.uber.com/fare-estimate/>

Detroit Bike Rental Program

Costs: \$8/day pass, \$18/month pass

Information: <https://mogodetroit.org/how-it-works/>

Travelling to/from Windsor, Canada

**Must have passport*

Detroit-Windsor Tunnel

<http://www.dwtunnel.com/>

Rates: <http://www.dwtunnel.com/Rates>

Bus: <https://www.citywindsor.ca/residents/transitwindsor/Routes-and-Schedules/Tunnel-Bus-to-Detroit/Pages/Tunnel-Bus-to-Detroit.aspx>

Nexpress Toll: <http://www.dwtunnel.com/NexpressToll>

Ambassador Bridge

Toll From Canada \$6.25

Toll To Canada \$5



Vito Palmisano/visitDetroit.com

Parent Resources

In partnership with Detroit's Cobo Center, Mamava announces the arrival of two Mamava lactation suites to the convention center. The first Mamava suite is located on level 2, in the main concourse, next to the Information Booth for the Center. The second suite is located on level 3, just a few steps from the main Cobo Center offices.

SFS Parent Place: This unstaffed room has been made available for parent and family use during the SFS Annual Meeting. It is located in the Cobo Center room 331C.

Child Care Options:

https://www.yelp.com/search?cflt=childcare&find_loc=Detroit%2C+MI

Accessibility

Cobo Center provides visitors with ADA accessibility. Parking spaces for the disabled using both regular vehicles and vans are available in all Cobo Center parking lots. Wheelchairs may be requested at the concourse Information Desk (upon availability.)

The north side of Cobo Center is accessible from the street with elevator access off of Congress Street near the parking garage. The south side of the venue can be accessed from the street level entrance near the Washington Boulevard turnabout.

Cobo Green

Cobo Center is a Green Meeting Industry Council ASTM/APEX STANDARD CERTIFIED FACILITY and the largest Green Venue facility in Michigan. Part of our renovations help us not only make an impact on our visitors, but also reduces our impact on the environment. The Cobo Center Green Committee meets regularly to promote sustainable practices. Highlights include: food donation, composting, energy consumption reduction, specialized recycling such as cardboard, kitchen oil, pallets, cans, bottles and more!

Gender Neutral/Family Restrooms

Gender neutral/family restrooms in the Cobo Center are located on Level 1 underneath the Grand Staircase, and on Level 2 outside of the Grand Ballroom.

guidebook

Society for Freshwater Science 2018 has gone mobile!

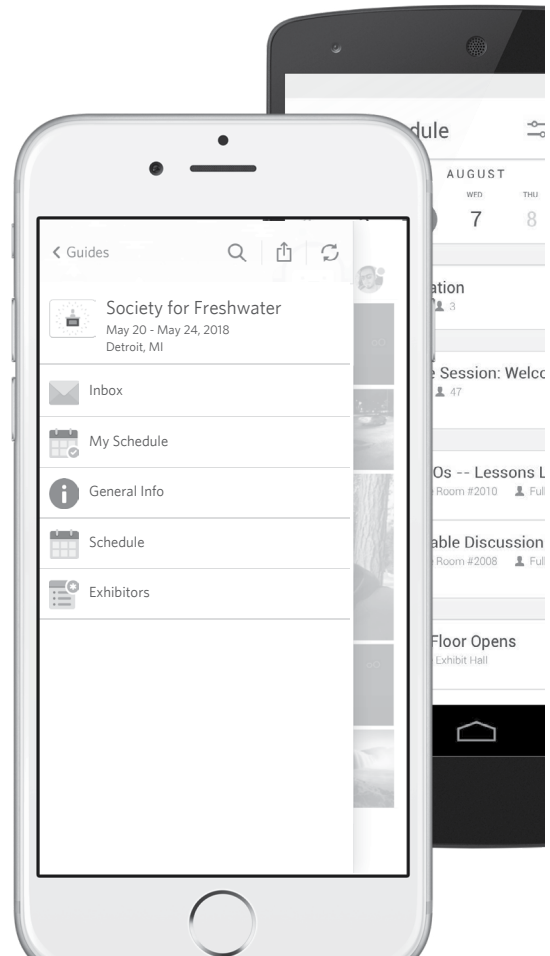
Get the app on your mobile device now, for free.

<https://guidebook.com/g/sfs18/>

- 1 Visit the above URL on your device
- 2 Tap the "download" button to get the free Guidebook app
- 3 Open Guidebook and look for the guide:

Society for Freshwater Science 2018

Or, scan this code inside the Guidebook App to access SFS 2018.



Meeting Schedule

Sunday, May 20, 2018		
7:00 AM - 9:00 AM	SFS Finance Committee Meeting	312AB
7:00 AM - 6:00 PM	Parent Place	331 C
9:00 AM - 5:00 PM	Workshop 1 - Larvae of the North American Trichoptera	310 A
9:00 AM - 5:00 PM	Workshop 2 - Fundamentals of Spatial Data Access and Analysis in R	310 B
9:00 AM - 5:00 PM	SFS Board of Directors Meeting	312AB
9:00 AM - 6:00 PM	Stream Resiliency Research Coordination Network (RCN)	420 A
9:00 AM - 6:00 PM	INSTARS Orientation	420 B
10:00 AM - 2:00 PM	SRC Workshop - Belle Isle Clean-up and Aquarium Visit	Offsite
11:00 AM - 6:00 PM	Exhibit Set Up	Grand Riverview Ballroom A
1:00 PM - 4:00 PM	Workshop 3 - Putting Your Science "In the Room"	330 A
1:00 PM - 6:00 PM	Bob's Beer Tour	Offsite
4:00 PM - 10:00 PM	Registration Open	Grand Riverview Ballroom A
5:00 PM - 6:00 PM	Dinner on your own	Offsite
6:00 PM - 8:00 PM	Exhibits Open	Grand Riverview Ballroom A
6:00 PM - 11:00 PM	Welcome Mixer	Grand Riverview Ballroom A
7:00 PM - 10:00 PM	SFS Meeting Opening Session: Awards	Grand Riverview Ballroom B
Monday, May 21, 2018		
7:00 AM - 9:00 AM	FWS Editorial Board Committee Breakfast	Crowne Plaza, Windsor A
8:00 AM	Morning Coffee	Grand Riverview Ballroom A
8:00 AM - 7:00 PM	Parent Place	331 C
8:00 AM - 11:00 PM	Registration	Grand Riverview Ballroom A
9:00 AM - 10:30 AM	Concurrent Sessions	
9:00 AM - 12:00 PM	TCP Test Session 1	313AB
10:30 AM - 11:00 AM	Break	Grand Riverview Ballroom A
11:00 AM - 12:30 PM	Concurrent Sessions	3rd & 4th Floor Meeting Rooms
12:30 PM - 2:00 PM	Lunch on your own	Offsite
12:30 PM - 2:00 PM	SFS Committees-Lunch Meeting	260 Portside
12:30 PM - 2:00 PM	SFS SRC Student Lunch Meeting	360 Ambassador
1:00 PM - 4:00 PM	TCP Test Session 2	313AB
2:00 PM - 3:30 PM	Concurrent Sessions	
3:30 PM - 4:00 PM	Coffee Break	Grand Riverview Ballroom A
4:00 PM - 5:00 PM	Keynote: Dr. Pete McIntyre 'FISH FOR THOUGHT: BUILDING AWARENESS OF THE WORLD'S FRESHWATER FISHERIES'	Grand Riverview Ballroom B
4:00 PM - 5:00 PM	TCC Meeting	313AB
5:00 PM - 7:30 PM	Dinner on your own	Offsite
5:15 PM - 7:00 PM	SRC Student/Mentor Mixer	Atrium
7:30 PM - 10:00 PM	Inclusivity Mixer - Anchor Bar	Offsite—Anchor Bar
7:30 PM - 10:15 PM	Rivers & Cultures: An Evening of Performance and Film	Grand Riverview Ballroom B

Tuesday, May 22, 2018		
7:00 AM - 9:00 AM	Pub Com Meeting	Crowne Plaza, Pontchartrain Rm
8:00 AM	Morning Coffee	Grand Riverview Ballroom A
8:00 AM - 7:00 PM	Parent Place	331 C
8:00 AM - 7:00 PM	Registration	Grand Riverview Ballroom A
9:00 AM - 10:30 AM	Concurrent Sessions	
10:30 AM - 11:00 AM	Break	Grand Riverview Ballroom A
11:00 AM - 12:30 PM	Concurrent Sessions	
12:30 PM - 2:00 PM	SFS Membership Business Lunch	Grand Riverview Ballroom B
2:00 PM - 3:30 PM	Concurrent Sessions	
3:30 PM - 4:00 PM	Coffee Break	Grand Riverview Ballroom A
4:00 PM - 5:00 PM	Keynote: Dr. Ellen Wohl 'RIVER CORRIDOR SCIENCE AND SOCIETY'	Grand Riverview Ballroom B
5:00 PM - 6:00 PM	Latin American Chapter Meeting	313AB
5:00 PM - 6:30 PM	Inclusivity Workshop	330 B
5:00 PM - 7:30 PM	PUI Mixer—Grand Trunk Pub	Offsite—Grand Trunk Pub
5:30 PM - 7:30 PM	Dinner on your own	Offsite
6:30 PM - 7:30 PM	SFS Endowment Reception	Crowne Plaza, Top of the Pontch
7:30 PM - 8:30 PM	Pam Silver Reception	Ballroom Prefunction Area
7:30 PM - 10:30 PM	SFS Mixer - Live Auction	Grand Riverview Ballroom A
Wednesday, May 23, 2018		
7:00 AM - 9:00 AM	Public Information and Publicity Committee Breakfast	312AB
8:00 AM	Morning Coffee	Grand Riverview Ballroom A
8:00 AM - 1:00 PM	Taxonomy Fair Set up	Grand Riverview Ballroom A
8:00 AM - 4:00 PM	Parent Place	331 C
8:00 AM - 4:00 PM	Registration	Grand Riverview Ballroom A
9:00 AM - 10:30 AM	Concurrent Sessions	
10:30 AM - 11:00 AM	Break	Grand Riverview Ballroom A
11:00 AM - 12:00 PM	Keynote: Dr. John Hartig 'NAVIGATING BOUNDARIES IN BUILDING NORTH AMERICA'S ONLY INTERNATIONAL WILDLIFE REFUGE'	Grand Riverview Ballroom B
12:00 PM - 2:00 PM	River Walk Tour with John Hartig	Offsite
12:00 PM - 1:30 PM	Lunch on your own	Offsite
12:00 PM - 1:30 PM	SFS 2019 Planning Committee Mtg.	312AB
12:00 PM - 1:30 PM	Journal Boot Camp (lunch)	313AB
1:30 PM	Silent Auction Closes	Grand Riverview Ballroom A
1:30 PM - 4:00 PM	Poster Session & Taxonomy Fair	Grand Riverview Ballroom A
4:00 PM - 5:00 PM	Chapter Information Session	313AB
4:30 PM - 6:00 PM	Fun Run—Meet on Patio Outside Ballroom	Offsite
5:30 PM - 7:30 PM	Early Career Mixer—Anchor Bar	Offsite—Anchor Bar
7:30 PM - 10:00 PM	Offsite Social Event - Detroit Princess Riverboat	Offsite
7:30 PM - 10:00 PM	Jam Session on Riverboat	Offsite



Thursday, May 24, 2018

7:30 AM - 9:00 AM	New Board of Directors Breakfast	312AB
8:00 AM	Morning Coffee	Grand Riverview Ballroom A
8:00 AM - 5:00 PM	Parent Place	331 C
8:00 AM - 5:00 PM	Silent Auction Pickup	Grand Riverview Ballroom A
8:00 AM - 5:00 PM	Poster tear down by presenters	Grand Riverview Ballroom A
8:00 AM - 5:00 PM	Registration	Grand Riverview Ballroom A
9:00 AM - 10:30 AM	Concurrent Sessions	
10:30 AM - 11:00 AM	Break	Grand Riverview Ballroom A
11:00 AM - 12:30 PM	Concurrent Sessions	
11:00 AM - 5:00 PM	EXHIBIT TEAR DOWN	Grand Riverview Ballroom A
12:30 PM - 2:00 PM	Lunch on your own	Offsite
12:30 PM - 2:00 PM	Early Career Lunch Workshop	313AB
2:00 PM - 3:30 PM	Concurrent Sessions	
3:30 PM - 4:00 PM	Coffee Break	Ballroom Lobby
4:00 PM - 5:00 PM	Keynote: Dr. Rebecca Lave 'BRIDGING THE GAP: INTEGRATING CRITICAL SOCIAL AND PHYSICAL SCIENCE IN THE STUDY OF STREAMS'	Grand Riverview Ballroom B
5:00 PM - 7:00 PM	Closing Mixer	Ballroom Lobby



The USGS Fisheries Program is proud to be a sponsor of the 2018 Annual Meeting of the Society for Freshwater Science

The United States Geological Survey's Ecosystems Mission Area and Fisheries Program conducts cutting-edge research to protect, restore, and enhance our Nation's fisheries and their habitats. Our world-class scientists provide expertise and science to address local, regional, and national questions on aquatic species, communities, and habitats which supports Department of Interior bureaus, state and federal partners, non-governmental organizations, and native tribes in their decision-making.

www.usgs.gov/ecosystems/fisheries-program

Keynote/Plenary Sessions Grand Riverview Ballroom B

Monday, 21 May 2018

4:00 – 5:00 pm



Dr. Pete McIntyre

University of Wisconsin—Madison

“Fish for Thought: Building Awareness of the World’s Freshwater Fisheries”

Inland fisheries are one of the most obvious freshwater ecosystem services, yet have little weight in policy and management decisions at national to global scales. What is their status, and what human interests would be affected if the world’s river and lake fisheries decline? Does conserving biodiversity help to maintain fishery productivity, and do fisheries pose a major threat to aquatic biodiversity? Can our community invoke fisheries to more effectively advocate for protecting freshwater ecosystems? I will summarize a global perspective on these and related questions, weaving together food security, biodiversity, economic, and ecosystem viewpoints to argue that freshwater fisheries merit far greater emphasis in decisions about environmental management.

Tuesday, 22 May 2018

4:00 – 5:00 pm



Dr. Ellen Wohl

Dept. of Geosciences, Colorado State University

“River Corridor Science and Society”

A river corridor includes the active channel(s), floodplain, and underlying hyporheic zone. Conceptualizing rivers as corridors emphasizes interactions among physical process and form and biotic communities, and among components of channel, floodplain, and hyporheic zone. A river corridor is created and maintained by fluxes that occur in a physical context. The physical context governs adjustment and results in a particular level of spatial heterogeneity, connectivity, resiliency, and ecological integrity. Recent research on North St. Vrain Creek, Colorado is used to illustrate how the framework of river corridor science facilitates understanding of differences in biomass among individual river segments. Ongoing research on how river process and form influence the partitioning of terrestrially derived organic carbon among gaseous emissions, storage in riverine sediment, and transport to the oceans is used to illustrate the implications of river corridor science at the global scale. Development of integrated numerical models that account for threshold behavior is important to improving the predictive ability of river corridor science. Conceptualizing rivers as corridors – or ecosystems – also facilitates understanding of human alterations of rivers through time and can be used to promote restoration of river fluxes and processes.

Wednesday, 23 May 2018

11:00 am – 12:00 pm



Dr. John Hartig

Balsillie School of International Affairs in Waterloo, Ontario

“Navigating Boundaries in Building North America’s Only International Wildlife Refuge”

It is no small challenge to navigate boundaries and build an international wildlife refuge in a nearly seven million person urban area that also represents the automobile capitals of the United States and Canada (i.e., Detroit, Michigan and Windsor, Ontario). This plenary talk will share insights into how innovative public-private partnerships have navigated political, cultural, and disciplinary boundaries to build the Detroit River International Wildlife Refuge as part of a strategy to make nature part of everyday urban life and help develop a conservation ethic. Today, 80% of all Americans and Canadians live in urban areas. Most urban residents are disconnected from the natural world. There is growing interest in re-connecting urban residents with nature. Compounding this problem is the fact that most conservationists avoid cities and want to work in pristine areas. Furthermore, when scientific assessments are made, most urban areas are found to be too degraded to rank high enough on conservation priority lists. This plenary talk will share experiences in bringing conservation to cities, fostering a conservation ethic in this major urban area, and inspiring and developing the next generation of conservationists in urban areas because that is now where most people on our planet live.

Thursday, 24 May 2018

4:00 – 5:00 pm



Dr. Rebecca Lave

Indiana University

“Bridging the Gap: Integrating Critical Social and Physical Science in the Study of Streams”

Do we need to integrate physical and social science to understand what is happening at our field sites? I argue in this talk that the answer is unequivocally yes, and that there is already a strong and growing body of work that does so: critical physical geography. Individually or in teams, critical physical geographers are bridging the gap, combining insights from geomorphology, ecology, and biogeography with approaches from political ecology, science and technology studies, and environmental history. By way of illustration, I present the results of a study of stream mitigation banking in the US. Drawing on social science data from document analysis and interviews and natural science data from geomorphic fieldwork, I argue that while the fluvial landscape bears a surprisingly clear signature of both environmental policy and the development of ecosystem service markets in “stream credits,” that signature is different than we would expect based on the economic incentives built into stream mitigation markets.



2018 Award Recipients

2018 Award of Excellence



MARY POWER

Mary E. Power is Professor in the Department of Integrative Biology at the University of California, Berkeley, and Faculty Director of the Angelo Coast Range Reserve, (www.Angelo.berkeley.edu), a 3500 ha field reserve in Mendocino Co, California protected for university teaching and research. She studies algal-based food webs in temperate and tropical rivers, as well as trophic linkages of river,

uplands and coastal environments. By studying how ecological interactions change in different hydrologic and landscape contexts, she hopes to learn how river-structured food webs will respond to changes in climate, land use, or biota.

She was awarded an honorary doctorate and the Kempe Medal for distinguished ecologists by Umea University, and the Hutchinson Award from the American Society of Limnologists and Oceanographers. She is a member of the California Academy of Science, the American Academy of Arts and Sciences, and the National Academy of Sciences USA. She serves on the Editorial Board of PNAS (2014 to present), Annual Reviews of Ecology and Systematics (2013-present) and was an editor for Science (2006-2009). Mary Power has also served as President of the American Society of Naturalists, and of the Ecological Society of America.

2018 Distinguished Service Award



PAM SILVER

Dr. Pamela Silver is first and foremost a bagpiper and has been one since she was 7 years old. She expects to be one long after she retires. She is the Pipe Major of the 96th Highlanders Pipes and Drums in Jamestown, New York. She began her professional life in 1976 as a medical technologist specializing in

immunohematology (blood banking). She entered graduate school at the University of South Florida in Tampa, Florida, in 1985 after the birth of her second son. She completed her MS in Botany in 1987 and her PhD in Biology in 1991. At her first NABS meeting (Tuscaloosa in 1988), she listened to Rosemary Mackay's report during the business meeting and set her sights on becoming the Editor of J-NABS. She joined the biology faculty at Penn State Erie, The Behrend College, in 1993. Rosemary had rules about untenured Associate Editors, so Pam contented herself with serving on the Education and Diversity Committee and participated in or co-organized several Teaching Workshops (Keystone I, San Marcos, Prince Edward Island). She and Mike Barbour organized the 2002 Anniversary meeting in Pittsburgh. In 1997, Rosemary Mackay retired, and Dave Rosenberg became Editor and Pam joined the Editorial Board as an Associate Editor (two years before tenure). Meanwhile, she kept listening to those Editor's reports. J-NABS continued to grow, and Dave asked Jack Feminella and Pam (sequentially) to serve as Co-Editors with him. Pam began editing manuscripts in 2002. Jack retired from the Co-editor position in 2003, and Dave retired in 2005. Since 2002, Pam has handled more than 2,900 manuscript submissions, edited more than 18,000 printed pages, and published 1,438 papers in 17 volumes of J-NABS and FWS. She oversaw the transition from mail to e-mail to online manuscript submission, peer review, and tracking, and she oversaw the title change from J-NABS to FWS in 2012. In 2017, she was promoted to Interim Associate Dean of Academic Affairs of the Behrend College, and she is hoping to survive an upcoming search to make that role permanent. She expects to retire from the journal in 2018, but she will remain active in SFS.



Creating Solutions to Environmental Problems

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2018 Environmental Stewardship Award



JEREMY MONROE

Jeremy Monroe is the 2018 recipient of the Society for Freshwater Science Environmental Stewardship Award. Jeremy has dedicated his career to taking the public below the water's surface – either with mask and snorkel or through the power of his documentary storytelling and stunning imagery. He is the founder and executive director of Freshwaters

Illustrated, a non-profit organization that educates a diverse public audience about the beauty and conservation of freshwater ecosystems through illustrative science-based resources including films, photographs and workshops.

As director of Freshwaters Illustrated, Jeremy has created a number of award-winning films and videos about freshwater biodiversity, science, and conservation. His first film, *RiverWebs*, tells the story of collaboration between Japanese and American stream ecologists. This award-winning documentary has been broadcast to more than 100,000,000 homes on Public Broadcasting System, shown at the largest film festivals in the US and Canada, and continues to educate students throughout the world in classrooms ranging from middle school to graduate school. His moving story of Native Americans and Pacific lamprey, his Hidden Rivers project, his work in southeastern rivers, and his new project in the Great Basin and Colorado River continue to expand his influence on citizens and inform decision makers across a diverse aquatic landscape.

The hallmark of Jeremy's award-winning films has been his use of extraordinary videography of freshwater organisms and ecosystems and his keen translation of our scientific understanding. In addition to exploring unknown landscapes under water, his films reveal to viewers the true process of science and the unique perspective of the freshwater scientist. As a result, Jeremy has not only touched millions of people with his images, he has also inspired the Society for Freshwater Science community to draw closer together, take pride in our work, and take the bold step of reaching out to public audiences with our research findings. Truly a pioneer in freshwater storytelling, Jeremy's devotion to celebrating the life below the surface is cultivating new discourse in the way many view the world's rivers, lakes and wetlands. Freshwaters Illustrated embodies a powerful form of environmental stewardship by inspiring new generations of children, educating and motivating entire communities, informing the public and decision makers, and translating the work of freshwater scientists into something of pure beauty that can be easily embraced by the general public.

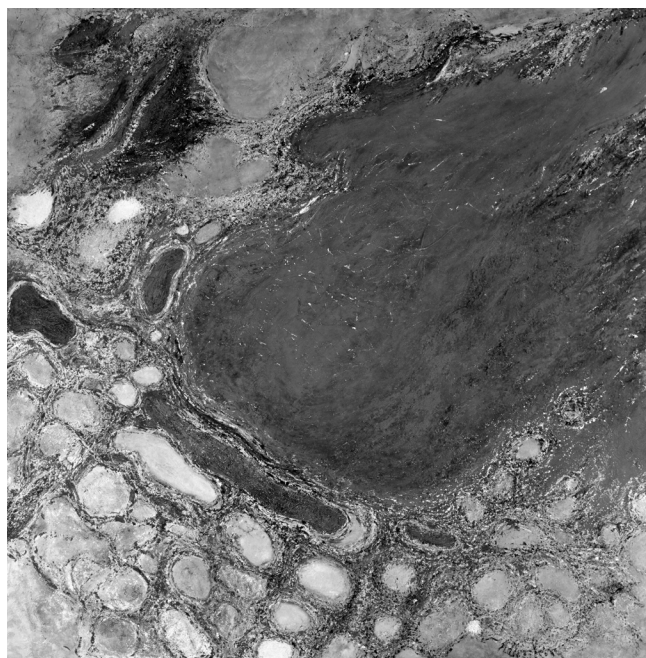
2018 Hynes Award for New Investigators



AMANDA DELVECCHIA

Amanda DelVecchia is an ecosystem ecologist broadly interested in the interactions between biogeochemical and ecological processes in freshwater ecosystems. She is currently a National Science Foundation Postdoctoral Scholar working with Dr. Brad Taylor and Dr. Scott Wissinger to understand how climate-change induced shifts in caddisfly populations affect

carbon and nutrient transformations in alpine ponds. She received her PhD from the University of Montana having worked with Dr. Jack Stanford at Flathead Lake Biological Station on the role of methane dynamics in supporting ecosystems in shallow alluvial aquifers of river floodplains, most notably the Nyack Floodplain in northwestern Montana. She was selected for the Hynes award based on her publication resulting from this work, which showed the widespread contribution of methane-derived carbon to aquifer consumer biomass and documented the first contribution of millennial-aged methane-derived carbon to secondary consumers in a freshwater system: DelVecchia, Amanda G., Jack A. Stanford, and Xiaomei Xu. "Ancient and Methane-Derived Carbon Subsidizes Contemporary Food Webs." *Nature Communications* 7 (2016): 13163. She also currently studies patterns of carbon dioxide concentrations and efflux across pond ecosystems, geologic and biological carbon sources and transformations in river aquifer ecosystems, and population genomics of geographically isolated macroinvertebrate populations.

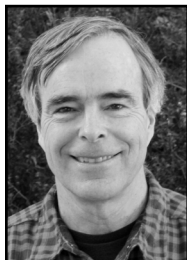


Sara Adlerstein, "River Traps" (Mixed Media).
Fracturing of a river system due to dam construction.
Presenter for Special Session 11.



Fellows Awards

The Fellows of the Society of Freshwater Science are selected based on sustained excellence in contributions to freshwater science research, policy, or management. These are the leaders, at national and international levels, of their areas of freshwater science. The Fellows endeavor to participate in SFS activities, individually or as a group, in ways they feel they can make a positive contribution based on their status as Fellows. Fellows should be regular members of the society. Any SFS member can nominate a Fellow, and new Fellows are chosen each year by a committee of existing Fellows. In addition, recipients of the Award of Excellence and the Environmental Stewardship Award are automatically awarded Fellowship the following year. Please join us in congratulating the 2018 class of Fellows!



CHUCK HAWKINS

Dr. Chuck Hawkins is Professor in the Department of Watershed Sciences, Ecology Center Associate, and Co-Director of the USU/BLM National Aquatic Monitoring Center at Utah State University. His research focuses on understanding how landscape setting, local habitat conditions, and human-caused environmental alterations influence the

biodiversity and ecological integrity of aquatic ecosystems at multiple spatial and temporal scales. He also works with state and federal agencies throughout the United States and internationally to help make ecological status and trend assessments more intuitive and scientifically defensible. He has consequently greatly improved bioassessment utility and accuracy. He has over 90 publications and has trained 29 graduate students and 5 postdoctoral students. He has taught courses in general ecology, freshwater invertebrate biology, stream ecology, and communicating science at USU since 1983. He has won numerous teaching and research awards including the US Environmental Protection Agency Scientific and Technological Achievement Award.



GARY LAMBERTI

Dr. Gary A. Lamberti is Professor of Biological Sciences and Director of the Stream and Wetland Ecology Laboratory (SWEL) at the University of Notre Dame. His major research interests include (1) food web ecology of streams and wetlands; (2) the ecology of native and introduced Pacific salmon; and (3) the impacts of land-use change, emerging

contaminants, and invasive species on aquatic ecosystem function. In Alaska, he investigates the cycling of salmon-derived nutrients in freshwater and riparian ecosystems. Around the Great Lakes, he studies the unintended consequences of past introductions of Pacific salmon, which can transport contaminants to new areas during their spawning migrations. His laboratory also investigates the ecology of deltaic wetlands in Alaska and coastal wetlands of the Great Lakes, with the objective of understanding how the functions of these crucial ecosystems are affected by global change. He retains an enduring love for aquatic invertebrates, which permeates all of his research. He has mentored 30 M.S. and Ph.D. students as well as numerous undergraduate research projects. Dr. Lamberti has over 175 publications, and has co-edited the Elsevier book entitled *Methods in Stream Ecology*, now in its 3rd edition. Dr. Lamberti is a Fellow of the American Association for the Advancement of Science and past President of the Society for Freshwater Science.

2017 Inaugural Class of SFS Fellows:

*Dave Allen
Michael Barbour
Art Benke
Ken Cummins
Cliff Dahm
Walter Dodds*

*Stuart Fisher
Steve Hamilton
Jim Harrington
Bob Hughes
James Karr
Susan Jackson*

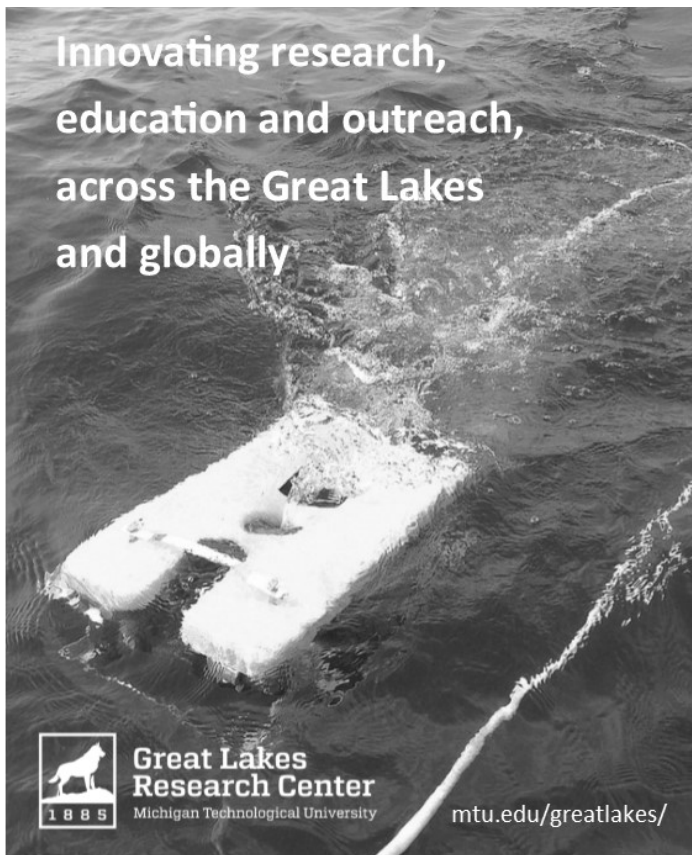
*Jerry Jacobi
Sam Lake
Rich Merritt
Judy Meyer
Wayne Minshall
Margaret Palmer*

*Bobbi Peckarsky
Dave Penrose
Vince Resh
Jack Stanford
Ben Stout
Colin Townsend*

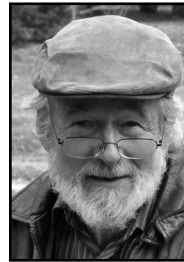
*Bruce Wallace
James Ward
Jack Webster*

2018 Class of SFS Fellows:

*Chuck Hawkins
Gary Lamberti
Denis Newbold
Emily Stanley*



Lynne Heasley, *Untitled*, 2014.
PCB cleanup of Portage Creek, Kalamazoo, Michigan.
Presenter for Special Session 11.



DENIS NEWBOLD

Dr. Denis Newbold is a Research Scientist Emeritus at the Stroud Water Research Center in Avondale, PA. He studied at Swarthmore (BS, engineering), Cornell (MS, hydrology), and Berkeley (PhD, aquatic ecology), then did a post-doc at Oak Ridge National Laboratory (where the buzz at the time was about Jack Webster's new concept of stream nutrient spiraling), before moving to the Stroud Center in 1983. Spiraling became a career-long interest, extending into isotopic tracing of the cycling of dissolved and particulate organic carbon in streams, and Dr. Newbold has been instrumental in showing the utility and application of the spiraling concept. Another long-term interest is in how riparian buffers protect stream ecosystems. His research has produced 57 publications, contributing to our understanding of the ecological structure and function of streams and informing general ecological theory. He has also been active with conservation efforts and assisted local government agencies.



EMILY STANLEY

Dr. Emily Stanley is a Professor in the Department of Integrative Biology and Center for Limnology at the University of Wisconsin. She received her Ph.D. from Arizona State University where she studied disturbance in Sycamore Creek. This early work laid a strong foundation for her current research on biogeochemistry and ecosystem processes in streams, large rivers, and lakes, as well as reservoirs, wetlands, and groundwater. Her recent efforts have emphasized anthropogenic influences on aquatic carbon and nitrogen cycles as well as long-term ecosystem change as part of the North Temperate Lakes Long Term Ecological Research program, for which she is currently the lead principal investigator. She has 115 peer-reviewed publications and is highly cited; the breadth and depth of her published research is impressive. She is a recipient of the G. Evelyn Hutchinson Award from the Association for the Sciences of Limnology and Oceanography and a Fellow of the Ecological Society of America. She has trained 6 postdoctoral associates and 20 graduate students.



2018 SFS Exhibitors



EnviroScience, Inc.

Marty Hilovsky
5070 Stow Road
Stow, OH 44224
E: mhilovsky@enviroscienceinc.com
www.enviroscienceinc.com

Booth Number: 1



Freshwater Science Journal

Mallory Gevaert
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E: mgevaert@uchicago.edu
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Booth Number: 2



University of Chicago Press

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Booth Number: 3



Bay Instruments/Walz

Todd Kana
930 Port St.
Easton, MD 21601
E: kana@bayinstruments.com

Booth Number 4



Green Eyes

Vincent Kelly
28034 Holly Rd.
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E: info@gescience.com
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Booth Number: 5



Martin Microscope Company

Robert H. Martin, Jr.
207 South Pendleton Street
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E: bob@martinmicroscope.com
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J&M Distribution

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Freshwaters Illustrated

Jeremy Monroe
PO Box 921
Corvallis, OR 97339
E: jeremy@freshwatersillustrated.org
www.freshwatersillustrated.org

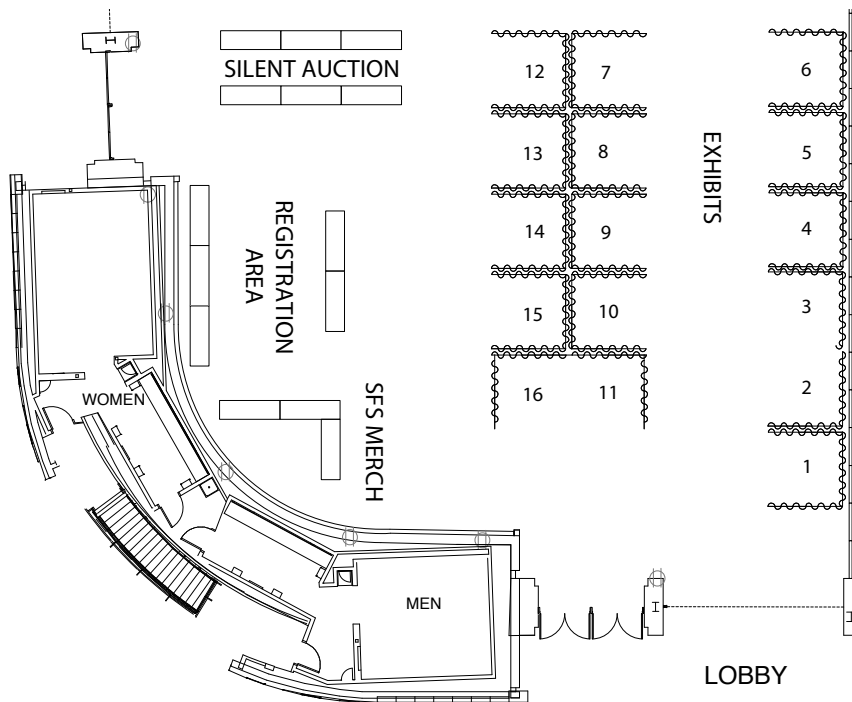
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Jonah Ventures

Joseph Craine
1600 Range St #201
Boulder, CO 80301
E: josephmcraine@jonahventures.com
www.jonahventures.com

Booth Number 9



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1	EnviroScience, Inc.
2	Freshwater Science Journal
3	University of Chicago Press
4	Bay Instruments/Walz
5	Green Eyes
6	Martin Microscopes
7	J&M Distribution
8	Freshwaters Illustrated
9	Jonah Ventures
10	Dragons Wynd
11	Fun Run Booth (SFS)
12	Fondriest Environmental, Inc.
13	Stroud Water Research Center
14	Amy McMahon Illustrations
15	The McDonald & Woodward Publishing Company
16	SFS Booth (SFS)



Dragons Wynd

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4719 Avenue S
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www.dragonswynd.com

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Amy McMahon Illustrations

Amy McMahon
235 N. Roosevelt Ave.
Fort Collins, CO 80521
E: amymcmahon.colorado@gmail.com
www.amymcmahonillustrations.com

Booth Number: 14



The McDonald & Woodward Publishing Company

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Michigan Technological University

100 Phoenix Drive
Houghton, MI 49931
mtu4u@mtu.edu
www.mtu.edu



International Joint Commission

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Detroit, MI 48232
commission@windsor.ijc.org
www.ijc.org/en



Oakland University

371 Varner Drive
Rochester, MI 48309
www.oakland.edu



Institute for Great Lakes Research

Central Michigan University

Brooks Hall 219
Mount Pleasant, MI 48859
IGLR@cmich.edu
www.cmich.edu/colleges/cst/iglr/Pages/default.aspx



Annis Water Resources Institute

Grand Valley State University

740 W. Shoreline Drive
Muskegon, MI 49441
taylorr@gvsu.edu
www.gvsu.edu/wri



Institute of Environmental Sustainability

Loyola University Chicago

1032 W. Sheridan Road
Chicago, IL 60660
IES@luc.edu
www.luc.edu/sustainability/index.shtml

Workshops

Prepaid, pre-registration is required.

Larvae of the North American Trichoptera

Sunday, May 20, 9:00 am – 5:00 pm

Cobo Center—310A

This workshop will primarily focus on diagnostic identification of the larvae of N. American Trichoptera. We will survey the fauna in an overview designed to familiarize workers with the characters that facilitate the identification of families and common genera. Participants are encouraged to bring personal materials and problematic specimens for practice and/or expert determination. Depending on participant interest, there will be time allotted to instruction on morphological characters useful for diagnosing adult Trichoptera. This workshop will be taught by Dr. Jason L. Robinson of the Illinois Natural History Survey.

Fundamentals of Spatial Data Access and Analysis in R

Sunday, May 20, 9:00 am – 5:00 pm

Cobo Center—310B

Advances in R packages that access and analyze spatial data can simplify the research process and allow for both GIS and statistical analyses to be conducted in a single software. In addition, there are several R packages that allow researchers show their methods in open and highly accessible documents. This workshop will focus on the basics of using the R language to read and write spatial data, deal with map projections, and the structure of these spatial data in R. The workshop will explore ways to read, write, and manipulate raster data in R. In addition, the workshop will look at some examples of both vector and raster analysis in R such as subsetting, extracting information, and overlaying data using R packages such as *sp*, *sfr*, *rgdal*, *raster*, and *rgeos*. Finally, we will explore several new R packages that simplify access to numerous spatial datasets (e.g., *geoknife*, *LAGOSNE*) to obtain covariates for analyses. All of the tools in this workshop will be explored within the context of several R tools and packages (e.g., *maptools*, *leaflet*) that can produce a transparent workflow, including interactive maps that can be shared with other researchers or the public. Ryan Hill and Marcus Beck have over 20 years combined experience working in R and will be fusing lecture and hands-on exercises to facilitate the training. Participants are expected to have some experience with R and GIS (Arc GIS).

Putting Your Science “In the Room”: Communicating Science to Inform Environmental Policy and Management Decisions

Sunday, May 20, 1:00 pm – 4:00 pm

Cobo Center—330A

Environmental managers and policy-makers at all levels of government rely upon rigorous scientific research and analysis to inform their decisions on natural resource management. Their decisions, and thus the science, not only impact the natural resource itself, but often a wide range of stakeholders – the public, regulated and non-regulated

industries. This combination workshop and special session focus on the transactions that occur between scientists and environmental managers and policy-makers “in the room” where natural resource management decisions are made. Scientists will have an opportunity to broker these transactions by communicating the scientific research they are presenting at the conference to a panel of state and federal water quality managers who operate in Clean Water Act implementation programs. Communication will occur through the preparation of a one-page briefing document that will be provided to the panelists and registered attendees prior to the conference. Scientists will be asked to deliver a five-minute brief to the panel in which they describe the environmental problem or issue, their scientific research, and the action they are seeking. A five-minute question and answer period will follow with additional feedback from a science communication specialist. A follow-up special session will repeat this exercise and give scientists an opportunity to hone their communication skills. This workshop/special session has three objectives:

- To mutually increase awareness of relevant science and the potential application of that science in environmental policy and management,
- To enhance science communication
- To connect science practitioners to specific environmental policy and management

Inclusivity Workshop: Inclusive and Accurate Approaches for Teaching Sex and Gender in Biology

Tuesday, May 22, 5:00 pm – 6:30 pm

Cobo Center—330B

Sexual reproduction, behavior, and selection are complex processes, but are overly-simplified into binary concepts and conflated with human gender and sexual identity. With this workshop, we will empower educators and mentors with definitions, examples, and resources to expand their toolbox beyond binary constructions of sex, sexuality and gender in biology.

Journal Boot Camp

Wednesday, May 23, 12:00 pm – 1:30 pm

Cobo Center—313AB

A panel discussion about the peer review process. Come meet your Freshwater Science Associate Editors and take advantage of the opportunity to ask questions about how to do peer reviews, what to look for, and how to write a constructive review. We also will address effective ways to respond to peer reviews you receive during manuscript submission and review. Box lunch included.

Early Career Workshop

Thursday, May 24, 12:30 pm – 2:00 pm

Cobo Center—313AB

The Early Career Workshop will focus on student mentoring and training. Panelists from a range of institutions will lead the discussion, and the scope will include both undergraduate and graduate mentoring. Open to SFS members who have finished their terminal degree within the last 10 years. Lunch is included.



Taxonomy

Taxonomic Certification Genus Level Testing—2018

Image Tests are on USB sticks for this event and you will need your own laptop computer (may be provided if requested):

EPT—East or West

Chironomidae—North America

Specimen & Slide Tests require microscope, light etc. (may be provided if requested):

General Arthropods—East or West

Oligochaeta—North America

Test Sessions:

All testing will take place on Monday, May 21, 2018 in room 313AB of the Cobo Center. The tests are three hours long with a half hour setup time:

Morning Session: 9:00 am – 12:00 pm

Afternoon Session: 1:00 pm – 4:00 pm

Please contact Mike Broomall at tcp@stroudcenter.org directly if you wish to sign up for any tests in Detroit. Additional information about the exams can be found at: www.stroudcenter.org/sfstcp

Taxonomic Certification Committee Meeting—2018

The TCC meeting will follow the test sessions from 4-5pm in room 313AB in the Convention Center. All are welcome. Please rsvp at tcp@stroudcenter.org to let us know if you would like to attend the meeting.

Annual SFS Taxonomy Fair

Wednesday, May 23, 1:30 pm – 4:00 pm

Exhibit Hall during Poster Session

The Technical Issues Committee would like to invite you to the Annual SFS Taxonomy Fair at the 2018 Annual meeting. Taxonomic experts will be gathered during the poster session Wednesday afternoon to discuss any and all taxonomic issues and help with identifications. This year there will be prizes for those attendees that bring the 'most interesting specimens' to the Taxonomy Fair. Are you flying to SFS? Please be aware that the FAA has recently changed their guidelines for flying with biological specimens, a description of how to package specimens can be found here:

https://www.faa.gov/about/initiatives/hazmat_safety/

Do you not have any specimens to examine but have questions about taxonomy or systematics? Be sure to stop by and chat with the invited experts and hear the latest news about the taxonomy of your favorite invertebrate or algal taxon. We look forward to seeing you at this year's fair.

Technical Issues Committee

Participating Taxonomic Experts:

Participant	Taxonomic Group	Affiliation
Mark Wetzel	Oligochaeta	Illinois Natural History Survey
Jason Robinson	Trichoptera	Illinois Natural History Survey
Julianne Heinlein	Algae	GLEC
Bohdan Bilyj	Chironomidae	Primus Consulting
Luke Jacobus	Ephemeroptera	IUPUC
Fredric Govedich	Hirudinea	Southern Utah University

INTERNATIONAL JOINT COMMISSION

More than 100 years of cooperation protecting the shared waters of the United States and Canada

Through the 1909 Boundary Waters Treaty and the Great Lakes Water Quality Agreement, the IJC helps Canada and the United States protect the Great Lakes and other boundary waters for present and future generations.

IJC findings and recommendations are based on sound science through collaboration with leading experts from both countries, who serve on our advisory boards and task forces.

From our ongoing research on several issues that impact particular boundary waters to our continual assessment of progress to restore the Great Lakes and our newest reference for Lake Champlain, the IJC is a vital source of information on Great Lakes and other boundary waters quality and quantity issues.

Learn more about our current projects and how to get involved on our website ijc.org, where you can subscribe to our newsletters, the monthly *Great Lakes Connection* and quarterly *Water Matters*, and follow us on social media:

International Joint Commission
 International Joint Commission
 @IJCsharedwaters

"Imagine two countries sharing hundreds of lakes and rivers along their border without conflict."

Special Events

Note: Wear your SFS 2018 name badge and bring your picture ID for any of the SFS mixers and social events.

Bob's Beer Tour

Sunday, May 20, 1:00 pm – 6:00 pm; Trip fee: \$20
Offsite, Start at Cobo Center

This brewery tour starts at the Cobo Center and visits three breweries near downtown Detroit: Batch Brewing, Atwater, Jolly Pumpkin Cafe, and possibly another. This will be a self-transported trip consisting of walking and Uber/Lyft. All costs on your own. The trip fee is a donation to the Pat Mulholland Endowment fund.

SFS–SRC Student/Mentor Mixer

Monday, May 21, 5:15 pm – 7:00 pm; No charge
Cobo Center—Atrium; Pre-registration required

The student-mentor mixer is designed to facilitate interactions between students and experienced professionals. For students, this is a wonderful opportunity to ask questions and engage in lively conversation with mentors and peers in a relaxed environment. Mentors from a diversity of backgrounds; including academia, government, private industry and non-profit organizations; have the chance to give advice to support the future of the society and recruit new talent. Light refreshments will be served, and participants over 21 will receive a complimentary drink ticket!

Rivers & Cultures: An Evening of Performance and Film

As part of Special Session S11: At the Confluence of
Freshwater Science and the Humanities

Monday, May 21, 7:30 pm – 10:15 pm
Cobo Center—Grand Riverview Ballroom B

- 7:30 Eaux de Trois (Waters of Three)
Al Steinman, Sookkyung Cho, Hannah Seidel, Hong-Yi Mo, Jeremy Crosmer, and the Grand Valley State University Dance Company
- 7:45 Mapping the River
Sara Adlerstein-Gonzalez, Evan Chambers, Jessica Fogel, Keith Taylor
- 8:15 While the River Sings
Sammy Matsaw, He-Myong Woo
- 8:40 Upriver – A Watershed Film
Freshwaters Illustrated, Jeremy Monroe & David Herasimtschuk
- 9:45 Bagmati
Alberto Rey

Primarily Undergraduate Institution (PUI) Mixer

Tuesday, May 22, 5:00 pm – 7:30 pm; Cost: \$10
Offsite—Grand Trunk Pub, 612 Woodward Ave, Detroit, MI 48226
 A new event providing a casual opportunity to meet and network for faculty and undergraduate students from colleges and universities that primarily focus on teaching undergraduates. Location (Grand Trunk Pub) convenient to the Cobo Center. Appetizers are included and cash/credit bar will be available.

Sunrise Riverview Yoga

Wednesday, May 23, 7:00 am
Cobo Center—Grand River View Ballroom Terrace

Join us for a riverfront sunrise yoga session on the Cobo Center Grand River View Ballroom Terrace, overlooking the Detroit River. Cobo Center and Society for Freshwater Science are partnering to kick-off the 2018 #cobocares community engagement series. All proceeds from registration will benefit Bees in the D, a local honeybee education and protection non-profit. Please bring your own yoga mat, water bottle and good vibes. Event-day registration will begin at 6:00 a.m. and the 1-hour session will begin at 7:00 a.m. Lauren of Citizen Yoga will be instructing an all-levels Slow Burn/ Basics session lasting 60 minutes. Parking is available for \$15/ car on the Cobo roof. Cobo Center is also home to a MoGo and Detroit People Mover Station, so ride, drive or walk on over to join us for this event. We highly encourage donations of \$10 or more. This event is open to the public. Be sure to follow @cobocenter on Twitter, Instagram, and Facebook for updates on this and future events. Tag #cobocares when posting photos from the event.

Fun Run

Wednesday, May 23, 4:30 pm – 6:00 pm; Cost: \$30 (includes t-shirt)
Offsite, Start/End Outside Cobo Center

The annual SFS 5k run will start and finish immediately outside of the COBO ballroom patio on the Detroit Riverfront. The course will follow the Detroit Riverfront path east to Milliken State Park, loop through the park, and return west along the same path. Participants will please note that the Riverwalk is open to the public and there be other walkers, runners, strollers, and easy-goers along the route during our event. We will have volunteers stationed at turns throughout the course. All participants will receive a 5k run or conference meeting shirt. There will be a brief awards ceremony at the immediate conclusion of the event. A portion of the proceeds from the 5k event will go to the Detroit Riverwalk Conservancy and Milliken State Park. Thank you for your support of urban green spaces!

Early Career Mixer

Wednesday, May 23, 5:30 pm – 7:30 pm; No charge
Offsite, Anchor Bar

The Early Career Mixer is a new event providing a casual opportunity for early career members to meet and network. The event is aimed at SFS members who have finished their terminal degree within the last 10 years. Meet at the Anchor Bar, 450 W. Fort Street (convenient to Cobo Center). Cash/credit bar available.

Detroit Princess Riverboat

Wednesday, May 23, 7:30 pm – 10:00 pm; Offsite
 A banquet dinner, live music, and river cruise aboard the Detroit Princess riverboat, docked near the Cobo Center, across the street from the Crowne Plaza Hotel.



SFS 2018 Optional Tours

Belle Isle Bus Tour

Sunday, May 20, 2018 10:00 am – 2:00 pm

It's no secret that Belle Isle Park is one of the city's finest gems. A city park since the 1880's, Belle Isle became Michigan's 102nd State Park in 2014. Last year, the island was named the most visited State Park in Michigan.

On this tour we will visit the historic Belle Isle Conservatory, Aquarium, Scott Fountain, and more! We will also learn more about the Belle Isle Conservancy, the group that is largely responsible for preservation, fundraising, and improvements to the island.

Downtown Walking Tour

Sunday, May 20, 2018 2:00 pm – 4:00 pm

Breathtaking historic architecture and brand new developments can be found all along Detroit's Woodward Corridor and Downtown is at the epicenter of it all. On this walking tour you'll see major developments, beautiful parks and public spaces, unique shops, one-of-a-kind restaurants and both newly built and renovated residential options. You'll also see some of Detroit's great historical landmarks and its world renowned architecture.

Highlights include:

- Campus Martius Park
- Guardian Building
- Theater District
- Capitol Park

River Walk Tour with John Hartig

Wednesday, May 23 12:00 PM – 2:00 PM

During the 1960s, the Detroit River was one of the most polluted rivers in North America. Today, it is one of the most remarkable ecological recovery stories in North America. This recovery laid the foundation for building the Detroit RiverWalk, one of the largest, by scale, urban waterfront redevelopment projects in the United States.



Vito Palmisano/visitDetroit.com

Meetings

**Asterisk denotes events that are for specific committee members and/or by invitation only.*

SFS Committees Lunch Meeting*

Monday, May 21, 12:30 pm – 2:00 pm

Cobo Center—260 Portside

Members from various SFS committees gather for our annual planning meetings. Committees include: Executive, Board of Directors, Finance, Board of Trustees of the Endowment, Elections and Place, Awards Selection, Long-Range Planning, Annual Meeting, Publications, Public Information and Publicity, Constitution Revision, Student Resources, Taxonomic Certification, Technical Issues, Science and Policy, International Coordination, Conservation and Environmental Issues, Education and Diversity, Sponsorship and Development, Journal Endowment, Special Offices, and Early Career Development.

SRC Committee Lunch Meeting*

Monday, May 21, 12:30 pm – 2:00 pm

Cobo Center—360 Ambassador

Students pre-registered by May 15, please join the Student Resource Committee (SRC) for our annual planning meeting! Learn about the SRC's activities (i.e. live auction, silent auction, student-mentor mixer, etc.) and how you can become more involved in the society. We will also be electing leadership positions for the coming year.

SFS Membership Business Luncheon

Tuesday, May 22, 12:30 pm – 2:00 pm; Pre-registration required

Cobo Center—Grand Riverview Ballroom B

This is the Society's annual business meeting where reports are presented and voting is conducted. Pre-registration required.

SFS Endowment Reception*

Tuesday, May 22, 6:30 pm – 7:30 pm

Crowne Plaza—Top of the Pontch

For donors and recipients, by invitation.

Annual SFS Taxonomy Fair

Wednesday, May 23, 1:30 pm – 4:00 pm

Exhibit Hall during Poster Session

The Technical Issues Committee would like to invite you to the Annual SFS Taxonomy Fair at the 2018 Annual meeting. Taxonomic experts will be gathered during the poster session Wednesday afternoon to discuss any and all taxonomic issues and help with identifications. This year there will be prizes for those attendees that bring the 'most interesting specimens' to the Taxonomy Fair. Are you flying to SFS? Please be aware that the FAA has recently changed their guidelines for flying with biological specimens, a description of how to package specimens can be found here: https://www.faa.gov/about/initiatives/hazmat_safety/. Do you not have any specimens to examine but have questions about taxonomy or systematics? Be sure to stop by and chat with the invited experts and hear the latest news about the taxonomy of your favorite invertebrate or algal taxon. We look forward to seeing you at this year's fair.

Outstanding Student Presentation Awards

Two hundred and ninety nine (299) student presentations were evaluated by judges at the 2017 SFS conference in Raleigh, NC. Two hundred and thirty nine (239) were presented by graduate students. Of these, one hundred and forty eight (158) were oral presentations and eighty one (81) were posters. Sixty (60) were given by undergraduate students. Of these, seven (7) were oral and fifty three (53) were posters. There were many fine presentations and all the students are congratulated for their participation.

2017 Award Winners

Andrew Sanders

Best Oral Presentation in Basic Research

"Host Diet Stoichiometry Influences Transmission Dynamics in Whirling Disease"

Kelley Fritz

Runner Up Oral Presentation in Basic Research

"Subsidies of Essential Nutrients from Aquatic to Terrestrial Environments via Amphibian Emergence"

Alex Webster

Best Oral Presentation in Applied Research

"Denitrification Potential in a Dynamic Environment: Influences of Flow Variation, Vegetation, and Geomorphology in Waterways and Riparian Zones of an Irrigated Agricultural Landscape"

Brittany Hanrahan

Runner Up Oral Presentation in Applied Research

"Comparing Denitrification Rates Between Restored and Naturalized Floodplains in Agricultural Ditches"

Anna Boegehold

Best Presentation Emphasizing Methodology

*"Cyanobacteria Reduce Quagga Mussel (*Dreissena Rostriformis Bugensis*) Reproduction and Veliger Survival"*

Andrea Fitzgibbon

Best Poster Presentation in Basic Research

"Biofilm-Sediment Interactions: Micron-Scale Spatial and Diel Variation in Oxygen"

Madeline Genco

Best Poster Presentation in Applied Research

"Learning to See, Seeing to Learn"

Patrick Carroll (UNIVERSITY OF SAN DIEGO)

Best Oral or Poster Presentation by an Undergraduate Student

"Drought Induced Dispersal in Diving Beetles in the Western United States"



Thank You

SFS would like to give a special thanks to Patina Mendez for designing the electronic judging submittal form. Thank you, Tina, for all your hard work.

SFS also thanks Kait Farrell for organizing student judges for the undergraduate student presentations. We are proud to have our talented future scientists participating in the growing undergraduate program.

We thank the continuing support of all our sponsors of the SFS Student Awards Program:

Elsevier/Academic Press

Frigid Units

Anonymous Donors

Peggy Morgan, SFS Student Awards Coordinator



Student Events

Undergraduates play an important role in the SFS-SRC, and we are excited to offer up to 10, \$600 travel awards to help fund undergraduate attendance at the SFS meeting in Detroit. We hope faculty and graduate students will encourage their mentees to apply for these awards, and that undergraduate attendees take advantage of all the SRC has to offer them at Detroit and beyond!

Belle Isle Clean-Up and Aquarium Visit

Sunday, May 20 10:00 am – 2:00 pm

This year the SRC is partnering with the Belle Isle Conservancy to help remove trash from Belle Isle. Participants will travel to Belle Isle from the convention center via bus, where they will collect trash for a few hours before taking a tour of the Belle Isle Aquarium. Belle Isle is a 2.5 mile long island located in the international waters of the Detroit River, operated by Michigan Department of Natural Resources. Belle Isle is considered the “Jewel of Detroit” due to its natural resources and historic landmarks. Woodsy forests, lagoons, and wetlands encompass over a third of the island, providing sanctuary for wildlife and opportunities for nature enthusiasts in this urban oasis. The Belle Isle Aquarium, the oldest aquarium in the country, houses an impressive collection of Great Lakes fishes and the only aquarium to house all seven species of gar found in North America.

Silent Book Auction

Opens Sunday, May 20 6:00 pm,

Closes Wednesday, May 23 1:30 pm

The SRC Silent Book Auction Committee invites you to peruse the wide collection of books and manuals provided to the SFS annual meeting by our generous donors. The auction will conclude promptly at 1:30 pm on Wednesday, May 23. A full list of winners and their bids will be posted near the auction tables and an email with this information will be sent to the SFS membership by 4 pm Wednesday. Items will be available for pickup at that time. Winners must pay for items at Registration and bring paid receipt to a Silent Book Auction Committee member to retrieve books. Unfortunately, we are unable to ship books to winners - so please plan in advance to pick up items prior to your departure or arrange for another member to receive books on your behalf.

Student-Mentor Mixer

Monday, May 21, 5:15 pm - 7:00 pm; Pre-Registration Required

The student-mentor mixer is designed to facilitate interactions between students and experienced professionals. For students, this is a wonderful opportunity to ask questions and engage in lively conversation with mentors and peers in a relaxed environment. Mentors from a diversity of backgrounds; including academia, government, private industry and non-profit organizations; have the chance to give advice to support the future of the society and recruit new talent. Light refreshments will be served, and participants over 21 will receive a complimentary drink ticket!

Diversity and Inclusivity Mixer

Monday, May 21 7:30 – 10:30 pm

Anchor Bar (offsite) 450 W Fort Street

This is the first year that there will be an official diversity and inclusivity mixer in the program! This mixer will celebrate marginalized and under-represented members of the society. The ad-hoc inclusivity committee and the SRC welcome all underrepresented and marginalized SFS members and their allies, as well as any attendees interested in helping make the society a more diverse and inclusive organization to join us for the inaugural SFS Diversity Mixer. Non-alcoholic beverages will be provided.

Student Resource Committee Lunch

Monday, May 21 12:30 – 2:00 pm; Pre-Registration required

Students, please join the Student Resource Committee (SRC) for our annual luncheon meeting! Learn about the SRC's activities (i.e. live auction, silent action, student-mentor mixer, etc.) and how you can become more involved in our society! We will also be electing leadership positions for the coming year. Lunch provided.

Merchandise

Opens Sunday, May 20 4:00 pm, Closes Thursday, May 24 4:00 pm

The SRC merchandise committee encourages SFS attendees to come check out the awesome items at the merch table. We tried to curate a unique selection of #freshwaterswag to incorporate both old and new logos and support a smooth transition into SFS new branding. In addition to meeting shirts, this year we are also offering some novel items such as ¾ zip pullovers, Klean Kanteen insulated tumblers, engraved water bottles, and an amazing assortment of stickers. So please come say hi, check out the merch table, and support SRC by adding some great SFS #freshswag to your collection!

Live Auction

Tuesday, May 22 at 8:30 pm

The SRC Live Auction event will feature auction items donated by generous society members and local businesses, as well as a live performance to follow. Please view the donated items prior to the auction to identify those you would like to bid on. After the Live Auction we will have a list of winners who can pay for their items at Registration. Regarding the live performance, we are switching things up this year. We would like to hear from you to decide which of our nominees should participate in the first annual SFS Lip Sync Battle. Make sure to check out the poster of nominees and donate money for whichever nominee you want to see compete on stage. The two nominees who raise the most money for the society will battle in a live performance on Tuesday evening.

Undergraduate Awards and Judging

The SRC Undergraduate Awards and Judging Committee would like to congratulate this year's winners of the Undergraduate Travel Awards! With the support of the SFS Endowment Committee and SRC leadership, our committee had the pleasure of reviewing applications covering a wide breadth of topics across the freshwater science domain. From stoichiometry to invasive species, applications showed real promise and originality for future freshwater science research. We'd also like to thank the SRC for their assistance in securing judges for undergraduate presentations, and graduate student attendees for their willingness to serve as judges in Detroit.

Undergraduate Travel Awards

Melissa Achettu

Loyola University Chicago, Chicago, IL

"Microplastic Abundance in Riverine Fish along a Land-Use Gradient"

Holly Kundel

Augsburg University, Minneapolis, MN

"Phenological Shift of Canada Darner (Aeshna Canadensis) Emergence in the St. Croix River Valley, Minnesota"

Morgan Gallagher

Virginia Tech, Blacksburg, VA

"Dynamic Heterogeneity of Greenhouse Gases in Streams"

Rachel M. Fricke

University of Washington, Seattle, WA

"A Bobber's Perspective on Angler-Driven Vectors of Invasive Species Transmission"

Cora Bilhorn

University of Wisconsin—Parkside, Kenosha, WI

"Molecular Analysis of Exuviae to Determine Species Identity and Population Structure of Gomphid Dragonflies"

Isabella Lentini

Loyola University Chicago, Chicago, IL

"Comparison of Macroinvertebrate Communities Across Golf Course and Forest Preserve Lentic Ecosystems"

Danielle Tesar

University of Wisconsin - Parkside, Kenosha, WI

"Environmental Variability Regulates Riverine Dragonfly (Odonata) Emergence from Wisconsin Rivers"

Paige Miller

Idaho State University, Pocatello, ID

"Investigating the Influence of Habitat Heterogeneity on Diversity of Terrestrial Arthropods in a River-Floodplain"

Zachary Maguire

Montana State University, Bozeman, MT

"Legacy Effects of Abandoned Ecosystem Engineering Structures on Stream Hydraulics"

Rachel Brinkley

Idaho State University, Pocatello, ID

"Segregated Habitat Use by Juvenile and Adult Trout in a Floodplain Springbrook"

Sarah Magyan

Gannon University, Erie, PA

"Assessing the Degradation of Terrestrially Derived Dissolved Organic Matter in Three Temperate Lakes"

Deion Everhart

University of Central Arkansas, Conway, AR

"Does Western Spruce Budworm Herbivory Alter Macroinvertebrate Community Composition and Stream Food-Web Dynamics?"

Honorable Mention

Sarah Crites

Loyola University Chicago, Chicago, IL

"Comparison of Zooplankton Communities Across Golf Course and Forest Preserve Lentic Ecosystems"

Ashanti Shapiro

University of Texas at El Paso, El Paso, TX

"Evaluating Morphological and Ecological Differentiation in Cryptic Species"

Rupert England

Alabama A&M University, Huntsville, AL

"Effects of Stream PH Regime on Macroinvertebrate Biomass and Leaf Decay Rate in High and Low Solute Streams in La Selva, Costa Rica"



8th Annual Instars Program



Instars is a program sponsored by the Society for Freshwater Science for undergraduates from under-represented groups interested in the study of freshwater. This program teaches undergraduate students about the many disciplines of freshwater science through interactions with other undergraduates, graduate student mentors, and professional SFS members. The core of the program is attending the 2018 SFS Annual Meeting. Instars activities include:

- A half-day, pre-meeting Instar orientation workshop open only to SFS Instar Fellows.
- Networking activities with peers and mentors during the meeting.
- Attending plenary sessions and a wide choice of special, contributed, and poster sessions.
- Opportunities to present undergraduate research in general sessions with friendly review from professional aquatic ecologists.
- Post-meeting networking and linking to research and educational opportunities in aquatic science.

SFS sponsors a number of Instars Fellows by providing meeting registration fees, travel, and lodging for the pre-meeting activities and the annual meeting.

This is the eighth Instar class! Several previous Fellows are presently in graduate school and will participate as mentors. Photos of previous classes, details of Instars activities, application materials and additional web communications are posted regularly on the SFS website.

Instar workshops, with the exception of the orientation workshop on Sunday, are open to all students or mentors attending the meeting; however, pre-registration is encouraged for planning purposes.

More Info:

- <https://www.freshwater-science.org/Education-and-Outreach/Instars-Program.aspx>
- <https://www.facebook.com/pages/Instars>

Faculty and students are encouraged to contact any members of the organizing committee for other information.

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SFS Instars Mentoring Workshop Orientation

(Invitation Only)

Sunday, 20 May 2018, 9:00 am – 6:00 pm

Cobo Center—Room 420B

This is the eighth year that the Society for Freshwater Science (SFS) is sponsoring the Instars Mentoring Program for undergraduates from under-represented groups who are interested in the study of freshwaters. The program is open to students sponsored through Instars Fellowships and others from under-represented minorities. During the annual meeting opportunities for networking among graduate student mentors, faculty and professionals will be promoted as we strive to encourage diversity in our discipline.

At this orientation workshop, new Instars fellows will meet peers who have similar interests in the study of freshwaters, graduate student mentors, and faculty who will guide them through the meeting. We will introduce the themes of the meeting program, and explore topics of common interest to participants. Instars participants will be encouraged to present results of undergraduate research during the week of the meeting (deadline for abstract submission was January 26, 2018). Following the meeting they will work as teams to develop summary papers based on chosen themes explored at the meeting.

Interested undergraduate students, graduate students and faculty are encouraged to contact members of the committee for developing pre-meeting discussions and networking. The deadline for applications to participate in the program as Instars Fellows was February 2, 2018, and for Instars Graduate Mentors it was February 23, 2018.

SFS Early Career Committee

EC Events:

Early Career Committee Lunch Meeting!

Monday, May 21, 12:30 – 2:00 pm in 260 Portside (Cobo Center). This will be the first formal participation of the Early Career Committee in the SFS business meeting.

Early Career Workshop! (Sold Out)

Thursday, May 24, 12:30 – 2:00 pm in 313AB (Cobo Center). This year's workshop will focus on mentor and student training, with panelists from academia and government. Registration required.

Early Career Mixer!


We hope to see all our Early Career SFS members (up to 10 years post-terminal degree) at the mixer on Wednesday, May 23, 5:30 – 7:30 pm at Anchor Bar! Anchor Bar is at 450 West Fort Street, just a 10-minute walk from the Cobo Center. A cash bar will be available.

EC Opportunities:

The Early Career Committee is pleased to announce the first Early Career Travel Awards to support participation in the Society for Freshwater Science annual meeting. Thanks to SFS president Colden Baxter for supporting these awards through presidential discretionary funds.


Interested in getting involved with the Early Career Committee? Have ideas for how SFS can better support our early career members? Please contact our current co-chairs, Meryl Mims (mims@vt.edu) and Natalie Griffiths (griffithsna@ornl.gov), or other active committee members (listed below) for more information.

EC on Twitter:

Follow and share Early Career-related events and discussions during #2018SFS using the twitter hashtag **#SFS_EC** 



SFS EC Committee members:

Meryl Mims (Co-chair)
Natalie Griffiths (Co-chair)
Zacchaeus Compson
Pablo E. Gutiérrez-Fonseca
Michael Hassett
Ashley Helton
Erin Hotchkiss
Marc Peipoch
PJ Torres




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Zetterberg Preserve at Point Betsie, Michigan © Jason Whalen



Presenter Information

Concurrent Sessions

Eleven concurrent sessions will be held in the Convention Center in the meeting rooms. Each session room will be equipped with a projector, screen, a PC laptop, remote/pointer, and a microphone. Wifi—wireless internet access has been arranged for our group throughout the facility and in all the meeting rooms. Access the abstract system by the assigned deadline to upload your presentation(s) so that they can be pre-loaded on the laptop in your room prior to your scheduled start time.

Upload your final presentation no later than midnight the day prior to your scheduled presentation (i.e., 11:59 pm Monday for a Tuesday presentation). If you need assistance or have questions, visit the presenter management team located near the registration area in Grand Riverview Ballroom A.

Link for Uploading

<http://sfsannualmeeting.org/Papers.cfm>

IMPORTANT:

All session presentations are pre-downloaded from the online system, not manually loaded in the presentation room onsite, however a speaker management team will be on hand if you need assistance.

The speaker management team is available any time conference registration is open. Check in at the registration desk and you will be directed to a speaker management team member to assist you if needed. **DO NOT WAIT UNTIL THE DAY OF YOUR PRESENTATION TO DO THIS.**



Alberto Rey, *Bagmati*.
Documentary and art installation about the sacred but polluted Bagmati River in Nepal.
Presenter for Special Session II.

Session Chair Information

Please arrive 30 minutes early to the session to familiarize yourself with the meeting room and AV equipment. The presentation files for each session will be pre-loaded on the laptop in the room in a folder by date and time. Once the presentation is launched, the presenter will control the program from the podium using a handheld slide advancer/laser pointer (provided). Alternately, the presenter may use the computer mouse or the up/down/right/left keys on a keyboard for navigation. The session chair or other room monitor will serve as a timer and indicate reminder times. Do not allow speakers or Q&A sessions to run over time. Start sessions on time; do not delay while people return from breaks. If a presenter ends early or a gap exists in the schedule due to a cancelled talk, wait until the scheduled start of the next presentation before continuing.

Talks are 12 minutes long with 2 minutes for questions and a 1-minute period for changing rooms. Please briefly introduce the speaker, their affiliation, and the title of their talk - no biographical elaboration is necessary.

To keep talks on schedule, the session chair will use a timer (provided) to keep track of session times. We will use the following timing conventions; at 10 minutes past the start of the talk, notify the speaker that there are 2 minutes left. At 12 minutes, indicate it is time to begin any questions; At 14 minutes indicate that the talk and questions are over. The session chair or room monitor will be provided with three cards: A yellow card to indicate there are 2 minutes left; a green card to indicate it is time for questions; and a red card to indicate that the talk and questions are over.

Poster Session

The Poster Session will officially take place on Wednesday, May 23 from 1:30 to 4:00 pm in Grand Riverview Ballroom A. Posters can be set up anytime after 8:00 am on Sunday, May 20. To optimize viewing and interaction opportunities we encourage presenters to leave their posters in place until Thursday when they need to be removed by 5:00 pm.

Posters will be mounted on poster boards located in Grand Riverview Ballroom A. Posters must be no larger than 45 inches high by 41 inches wide. If your poster exceeds these specifications, it may be subject to removal. Posters will adhere to the boards using push pins that will be provided.

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MAY 21, 2018

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SESSION	S28 Reframing the Science of Urbanized Headwater Streams <i>Moderator: Jake Hosen</i>	S20 Emerging Approaches to Modeling Population and Community Dynamics in Fresh Waters <i>Moderator: Jonathan Tonkin</i>	S11 At the Confluence of Freshwater Science and the Humanities <i>Moderator: Judy Li</i>	S27 Green Meets Brown: Ecological Significance of Interacting Autotrophy and Heterotrophy in Freshwaters <i>Moderator: Halvor Halvorson</i>	S21 Navigating Between Ecosystem Structure and Functioning in Research and Management <i>Moderator: Gea van de Lee</i>
9:00 AM - 9:15 AM	SEWERSHEDS AND WATERSHEDS: NATURAL AND ANTHROPOGENIC DRIVERS OF HYDROLOGY AS WATER QUALITY CONTROLS IN URBANIZED MOUNTAIN HEADWATERS Gabor, Rachel ; Hall, Steven; Eiriksson, Dave; Millington, Mallory; Tennant, Hyrum; Neilson, Bethany; Brooks, Paul	TRADE-OFFS AND CO-BENEFITS OF FUTURE FLOW REGIMES ACROSS MAJOR TAXONOMIC GROUPS Tonkin, Jonathan ; Merritt, David; Olden, Julian; Reynolds, Lindsay; Rogosch, Jane; Lytle, David	CREATIVE RECONNECTION IN THE ANTHROPOCENE Rosenthal, Ann	NAVIGATING THE BOUNDARY BETWEEN GREEN AND BROWN: WHERE, WHEN, AND HOW DO AUTOTROPH-HETEROTROPH INTERACTIONS AFFECT AQUATIC SYSTEMS? Halvorson, Halvor ; Robbins, Caleb J.; Kuehn, Kevin	NAVIGATING BETWEEN ECOSYSTEM STRUCTURE AND FUNCTIONING IN RESEARCH AND MANAGEMENT: AN OVERVIEW OF CURRENT KNOWLEDGE. Verdonschot, Piet F.M. ; van der Lee, Gea; Verdon-schot, Ralf C.M.
9:15 AM - 9:30 AM	BIOTIC RESPONSES TO MULTIPLE THREATS OF URBANIZATION AND DRYING IN HEADWATER STREAMS Roy, Allison ; Lubbers, Hannah; Miller, Michael	USING STOCHASTIC STATE-AND-TRANSITION MODELS TO EXPLORE POPULATION RESPONSES TO DROUGHT CYCLES. Bond, Nick ; Horne, Avril	READING WATER: RENEWING HUMANITIES-FRESHWATER SCIENCE SYNERGIES FOR URGENT TIMES AND WICKED PROBLEMS Heasley, Lynne ; Bloom, Devin; Schriever, Tiffany	META-ANALYSIS OF HETEROTROPHIC MICROBIAL RESPONSES TO PERIPHYTIC ALGAL PHOTOSYNTHESIS Francoeur, Steve ; Halvorson, Halvor; Kuehn, Kevin	EFFECT OF AGRICULTURAL LAND-USE ON STRUCTURE AND FUNCTION OF LOWLAND STREAMS van der Lee, Gea ; Verdonschot, Ralf C.M.; Kraak, Michiel; Verdonschot, Piet F.M.
9:30 AM - 9:45 AM	WATERSHED URBANIZATION OVERSHADOWS RIPARIAN CANOPY EFFECTS ON STREAM PERIPHYTON COMMUNITY STRUCTURE AND FUNCTION Buffam, Ishi ; Alberts, Jeremy; Beaulieu, Jake J.; Steinitz-Kannan, Miriam	PREDICTING ENVIRONMENTAL TRAJECTORIES OF CHANGE UNDER A VARIABLE AND UNCERTAIN FUTURE Stratford, Danial ; Bridge-man, Peter; Cuddy, Susan; Freebairn, Andrew; King, Darran; Korda, Mitchell; Lester, Rebecca; Nicol, Sam; Pollino, Carmel; Stevens, David	A VIRTUAL DIORAMA OF NUTRIENT SPIRALING Leshyk, Victor ; Koch, Benjamin; Hungate, Bruce; Marks, Jane	SIMULATING INTERACTIVE EFFECTS OF PRIMARY PRODUCTION AND TERRESTRIAL ORGANIC MATTER SUBSIDIES ON STREAM ORGANIC CARBON SPIRALING Hotchkiss, Erin ; Hall, Robert; Baker, Michelle; Plont, Stephen	STREAM METABOLISM IN AGRICULTURAL AND URBAN LANDSCAPES: SPATIAL VS TEMPORAL PATTERNS Munn, Mark ; Konrad, Christopher; Miller, Matthew; Waite, Ian
9:45 AM - 10:00 AM	POPULATION DENSITY, URBAN STRUCTURE, AND STREAMS Heffernan, Jim	REDUCING THE DIMENSIONALITY OF SPECIES DIVERSITY WITH FLOW RESPONSE GUILDS AND GENETIC TRAIT SYNDROMES Lytle, David	SCIENCE AND ART: AN INTERDISCIPLINARY CONVERSATION Bartholomew, Jerri	LITTER NUTRIENT CONTENT MEDIATES THE EFFECTS OF PERIPHYTIC ALGAL PHOTOSYNTHESIS ON FUNGAL AND BACTERIAL PRODUCTION IN LITTER-ASSOCIATED MICROBIAL COMMUNITIES Kuehn, Kevin ; Halvorson, Halvor; Francoeur, Steve	FINE SEDIMENT IMPACT ON STREAM METABOLISM: A LAND USE EFFECT dos Reis Oliveira, Paula ; Verdonschot, Piet F.M.
10:00 AM - 10:15 AM	THE FRESHWATER SALINIZATION SYNDROME IN SOUTHEASTERN URBAN STREAMS Blaszczak, Joanna ; Delesantro, Joseph; Urban, Dean; Bernhardt, Emily	THE UTILITY OF SIMULATIONS IN UNDERSTANDING POPULATION DYNAMICS IN FRESH WATERS: EVALUATING DEMOGRAPHY, GENETICS, AND REINTRODUCTION OF A THREATENED CHAR Mims, Meryl ; Bearlin, Andrew; Burkhardt, Jacob; Day, Casey; Fuller, Matthew; Hinkle, Jameson; Landguth, Erin	MULTIMEDIA PERFORMANCE: A POWERFUL TOOL TO BUILD ENVIRONMENTAL STEWARDSHIP APPEALING TO THE SENSES Adlerstein, Sara ; Fogel, Jessica; Chambers, Evan; Taylor, Keith	THE ROLE OF PHOSPHORUS AND LIGHT IN AQUATIC MICROBIAL PRIMING Howard-Parker, Brooke ; White, Brendon; Evans-White, Michelle	PERIPHYTON FUNCTIONAL PARAMETERS AS INDICATORS OF PHOSPHORUS ENRICHMENT ALONG AN AGRICULTURAL IMPACT GRADIENT IN CENTRAL PENNSYLVANIA Rier, Steven ; Soohy, Jennifer; Conville, Corey; Gordon-Weaver, Aaron
10:15 AM - 10:30 AM	HYDROLOGY AND CHEMISTRY OF URBANIZED HEADWATER STREAMS IN AUSTIN, TX: A CONTEXT FOR ECOLOGICAL EVALUATION Scoggins, Mateo	CONTRIBUTION OF "SEED BANKS" TO BACTERIOPLANKTON COMMUNITY DYNAMICS Wisnoski, Nathan ; Lennon, Jay	AN EYE FOR DESIGN: A GRADUATE STUDENT PERSPECTIVE ON THE BENEFITS OF COMMUNICATION ARTS TRAINING Woods, Taylor ; McGarvey, Daniel	EXPERIMENTAL EVIDENCE SUGGESTS ALGAE NEGATIVELY PRIME PLANT LITTER DECOMPOSITION IN AQUATIC SYSTEMS Halvorson, Halvor ; Barry, Jacob; Lodato, Matthew; Findlay, Robert; Francoeur, Steven; Kuehn, Kevin	

330B	410A	410B	420A	420B	430B	SESSION
C10 Biogeochemistry <i>Moderator: Amy Burgin</i>	C17 Bioassessment <i>Moderator: Ben Jessup</i>	C14 Hydroecology <i>Moderator: Ayesha Sharon Burdett</i>	C25 Food Webs <i>Moderator: Caryn Vaughn</i>	S08: Re-eutrophication of Lake Erie: Causes, consequences, and possible solutions <i>Moderator: Laura Johnson</i>	S15 Crossing Boundaries: Watershed-tributary-lake Exchanges in the Great Lakes Region <i>Moderator: Peter McIntyre</i>	
HYDROLOGIC AND VEG-ETATION MANAGEMENT INFLUENCE OXYGEN DYNAMICS AND NITROGEN PROCESSING IN SHALLOW, LOW GRADIENT, EXPERIMENTAL STREAMS Nifong, Rachel ; Taylor, Jason M.; Yasarer, Lindsey	THE DEVELOPMENT OF A SEDIMENT BIOMONITORING INDEX FOR SOUTH AFRICA RIVERS, USING THE TRAIT-BASED APPROACH Odume, Oghenekaro Nelson	FLOW REGIMES FILTER SPECIES TRAITS OF BENTHIC DIATOM COMMUNITIES AND MODIFY THE ECOSYSTEM FUNCTIONS OF LOWLAND STREAMS – A NATION-WIDE SCALE STUDY Wu, Naicheng ; Riis, Tenna; Thodsen, Hans; Baattrup-Pedersen, Annette	IMPACT OF LOST FLOODS ON FOOD WEBS AND FISH IN A REGULATED RIVER-FLOODPLAIN Paris, James ; Baxter, Colder; Brinkley, Rachel; Osborne, Hunter; Wadsworth, Zachary	BRIDGING THE GAP BETWEEN LAND MANAGEMENT AND LAKE RECOVERY Crossman, Jill	OF SMALL STREAMS AND GREAT LAKES: INTEGRATING TRIBUTARIES TO UNDERSTAND THE ECOLOGY AND BIOGEOCHEMISTRY OF LAKE SUPERIOR Marcarelli, Amy ; Coble, Ashley; Meingast, Karl; Kane, Evan; Brooks, Colin; Buffam, Ishi; Green, Sarah; Huckins, Casey; Toczydowski, David; Stottlmyer, Robert	9:00 AM - 9:15 AM
RIVER NETWORK-SCALE PATTERNS OF GROUND-WATER DISCHARGE AND DENITRIFICATION OF LEGACY NITROGEN AT THE STREAMBED INTERFACE Helton, Ashley ; Barclay, Janet; Briggs, Martin; Starn, J. Jeffrey; Hunt, Ann	APPLICATION OF BIOTIC METRICS IN AQUATIC ECOSYSTEM: IMPLICATIONS TO RIVER HEALTH ASSESSMENT FOR SUSTAINABLE WATER RESOURCE MANAGEMENT IN WESTERN NEPAL Tachamo Shah, Ram Devi	LARGE SPATIAL SCALE ASSESSMENT OF HYDROLOGICAL ALTERATION CAUSED BY DAMS IN CHILE. Peñas, Francisco ; Muñoz, Enrique	THEY'RE PROBABLY FEELING INSECURE: INFERRING FOOD WEB STRUCTURE AND STABILITY USING PROBABILISTIC NETWORKS Pomeranz, Justin ; Warburton, Helen; Thompson, Ross; Poisot, Timothée; Harding, Jon	MICROCYSTINS AND SAXITOXINS IN THE WESTERN AND CENTRAL BASINS OF LAKE ERIE Chaffin, Justin ; Davis, Timothy W.; Smith, Derek; Dick, Gregory; Baer, Mikayla; Mishra, Sachi	MODELED WEEKLY TOTAL PHOSPHORUS LOADS FOR ALL UNITED STATES RIVERS FEEDING THE GREAT LAKES Esselman, Peter ; Kendall, Anthony; Hyndman, David; Martin, Sherry; Stevenson, Jan	9:15 AM - 9:30 AM
NITROGEN LOADING IN AN OLIGOTROPHIC RESERVOIR: INFLUENCE ON FOOD WEB DYNAMICS Kunza, Lisa ; Chowanski, Kurt; Dunnigan, James; Easthouse, Kent; Hoffman, Gregory	DOES LIGHT TRAPPING FOR ADULT TRICHOPTERA IMPROVE BIOASSESSMENT OF STREAM HEALTH IN APPALACHIAN RIVER SYSTEMS? Wrege, Coleson ; Morse, John C.; Caterino, Michael; Adler, Peter; Gerard, Patrick	QUANTIFYING THE STRUCTURAL AND FUNCTIONAL RESPONSES OF MACROINVERTEBRATE COMMUNITIES TO ANTHROPOGENICALLY ALTERED FLOWS OVER A >20 YEAR PERIOD White, James ; Wood, Paul; Hannah, David; House, Andy	TROPHIC NICHE WIDTH AND DIFFERENTIATION WITHIN UNIONID MUSSEL COMMUNITIES van Ee, Brian ; Atkinson, Carla L.	RESPONSES OF LAKE ERIE PHYTOPLANKTON COMMUNITIES TO PHOSPHORUS, NITROGEN, AND SILICA LOADING FROM THE MAUMEE RIVER Hood, James ; Sethna, Lienne; Royer, Todd V.	NITROGEN LIMITATION OF LAKE SUPERIOR COASTAL WETLANDS Cooper, Matthew ; Hefko, Aletha; Wheeler, Michele	9:30 AM - 9:45 AM
FLOW REGIME INFLUENCES ON CARBON DIOXIDE AND METHANE FLUXES AND SOURCES IN FORESTED OZARK STREAMS Dodd, Allyn ; Pollock, Erik; Magoulick, Daniel; Evans-White, Michelle	SILTATION AND STREAM MACROINVERTEBRATES: FROM THE COMMUNITY RESPONSE TO THE DEVELOPMENT OF STRESSOR-SPECIFIC BIOMONITORING TOOLS Doretto, Alberto ; Bona, Francesca; Piano, Elena; Falasco, Elisa; Fenoglio, Stefano	FLOW ALTERATION AND FUNCTIONAL FLOW METRICS FOR CALIFORNIA STREAMS Zimmerman, Julie ; Carlisle, Daren; Howard, Jeanette; Grantham, Ted; Brown, Larry; May, Jason; Klausmeyer, Kirk; Stein, Eric; Yarnell, Sarah; Sandoval, Sam; Lane, Belize; Lusardi, Robert	BRIDGING GREEN TO BROWN FOOD WEBS: PRODUCTION AND DECOMPOSITION OF DISSOLVED ORGANIC CARBON IN OVERLAPPING CONSUMER HOTSPOTS Parr, Thomas ; Vaughn, Caryn; Gido, Keith	WESTERN LAKE ERIE WATER COLUMN AMMONIUM: INTERNAL CYCLING, SEASONAL DYNAMICS, AND HARMFUL CYANOBACTERIAL BLOOMS Hoffman, Daniel K. ; McCarthy, Mark; Davis, Timothy W.; Gossiaux, Duane; Burtner, Ashley; Johengen, Tom; Palladino, Danna; Gardner, Wayne S.; Myers, Justin A.; Newell, Silvia E.	FISH USE OF LAKE MICHIGAN DROWNED RIVER MOUTHS: A CONCEPTUAL MODEL OF LIFE HISTORY TYPES Ruetz III, Carl R.	9:45 AM - 10:00 AM
ARE BIOGEOCHEMICAL RESPONSES LINKED TO THE MICROBIAL COMPOSITION OF A DEFINED NUTRIENT AND MICROBIAL INPUT TO A LARGER RIVER? Burgin, Amy J. ; Zeglin, Lydia; Kelly, Michelle; Thompson, Cay; Hanschu, Janaye; Moley, Priscilla	URBAN BIOASSESSMENTS INDICATE INCREASED BENTHIC TOLERANCE Ruck, Chris ; Witt, Jonathan; Astin, LeAnne	EVALUATING THE ECOLOGICAL AND BIOGEOCHEMICAL CONSEQUENCES OF PREFERENTIAL FLOW PROCESSES AT SEDIMENT/WATER INTERFACES Briggs, Martin ; Zarnetske, Jay; MP Dehkordy, Farzaneh; Hampton, Tyler; Day-Lewis, Fred; Singha, Kamini; Johnson, Zachary; Hitt, Nathaniel; Snyder, Craig; Hurley, Steve; Harvey, Jud; Lane, John	EFFECTS OF DROUGHT AND HURRICANE DISTURBANCES ON MACROBRACHIUM DOMINATED FOOD WEBS: RESPONSES TO HIGHLY VARIABLE FLOWS Covich, Alan ; Crowl, Todd; Perez-Reyes, Omar; Gutierrez, Pablo; Kelly, Sean; Bithorn, John; Matta, Samuel	AMMONIUM REGENERATION DRIVES SUMMER BLOOMS OF PLANKTOTHRIX IN SANDUSKY BAY Hampel, Justyna J. ; McCarthy, Mark J.; Bullerjahn, George S.; McKay, Robert M.; Neudeck, Michelle; McKindles, Katelyn; Newell, Silvia E.	POTENTIAL IMPACTS OF TRIBUTARY LOADS ON COASTAL ECOSYSTEM SERVICES IN LAKE MICHIGAN Gloege, Lucas ; McKinley, Galen; Mooney, Robert J.; Allan, David; Diebel, Matthew; McIntyre, Peter B.	10:00 AM - 10:15 AM
CAN A SMALL BLUE-GREEN ENDOSYMBION FIX ENOUGH NITROGEN TO SUPPORT A FOUR LEVEL FOOD CHAIN? Marks, Jane ; Power, Mary; Pett-Ridge, Jennifer; Mayali, Xavier; Weber, Peter; Hungate, Bruce	HIGH THROUGHPUT SEQUENCING FOR THE STUDY OF MICROBIAL CONTAMINATION OF BEACHES IN THE HURON TO ERIE CORRIDOR: INVESTIGATING DYNAMICS AND POTENTIAL SOURCES Ram, Jeffrey ; Chaganti, Subba Rao; Plouff, Claire; Shahraki, Abdolrazagh Hashemi; Madani, Mohammad; Vasquez, Adrian; Seth, Rajesh; Heath, Victoria	SURFACE WATER AVAILABILITY CAN REGULATE WATER QUALITY AND NUTRIENT RETENTION IN AQUATIC AGROECOSYSTEMS Murdoch, Justin ; Locke, Martin; Lizotte, Richard; Taylor, Jason M.	OVERLAPPING CONSUMER HOTSPOTS: TOP DOWN AND BOTTOM UP INTERACTIONS IN THE GREEN FOOD WEB Vaughn, Caryn C. ; Parr, Thomas; Popejoy, Traci; Hopper, Garrett	NUTRIENT AND TRACE METAL CO-LIMITATION OF ALGAL BLOOMS IN THE GREAT LAKES Costello, David ; Stoll, Jordyn; Fitzgibbon, Andrea; Larson, James		10:15 AM - 10:30 AM



Monday — Late Morning Oral

MAY 21, 2018

	310A	310B	320	321	330A
SESSION	S28 Reframing the Science of Urbanized Headwater Streams <i>Moderator: Mateo Scoggins</i>	S20 Emerging Approaches to Modeling Population and Community Dynamics in Fresh Waters <i>Moderator: Alberti Ruhi</i>	S11 At the Confluence of Freshwater Science and the Humanities <i>Moderator: Ann Rosenthal</i>	S27 Green Meets Brown: Ecological Significance of Interacting Autotrophy and Heterotrophy in Freshwaters <i>Moderator: Kevin Kuehn</i>	S21 Navigating Between Ecosystem Structure and Functioning in Research and Management <i>Moderator: Gea van de Lee</i>
11:00 AM – 11:15 AM	THE URBAN STREAM SYNDROME: EXOTIC BIOTIC AND ERRATIC ABIOTIC ASPECTS OF URBANIZED HEADWATERS Kuglerová, Lenka; Kielstra, Brian; Moore, Dan; Richardson, John	DROUGHT-INDUCED SYNCHRONY IN DESERT FISH METACOMMUNITIES: AN EXAMINATION OF THE MORAN EFFECT Ruhi, Albert; Olden, Julian	WHILE THE RIVER SINGS Matsaw, Sammy; Wicks-Arshack, Adam; Woo, He-Myong	SEASONAL PATTERNS IN ALGAL BIOMASS ALTER THE STOICHIOMETRY OF EXTRACELLULAR ENZYME MEDIATED NUTRIENT CYCLING IN AN AGRICULTURALLY INFLUENCED OXBOW LAKE Taylor, Jason M.	USING DNA-METABARCODING TO LINK BIODIVERSITY AND ECOSYSTEM FUNCTION ACROSS A LARGE-RIVER FLOODPLAIN DISTURBANCE GRADIENT Rideout, Natalie; Compson, Zacchaeus; Monk, Wendy; Stefani, Sonja; Hajibabaei, Mehrdad; Baird, Donald
11:15 AM – 11:30 AM	MICROBIAL PROCESSING HOMOGENIZES DISSOLVED ORGANIC MATTER FROM URBAN ENGINEERED HEADWATERS Fork, Megan; Osburn, Christopher; Heffernan, Jim	USING METACOMMUNITY SIMULATIONS TO UNDERSTAND HOW STREAM NETWORK CHARACTERISTICS CAN AFFECT MACROINVERTEBRATE COMMUNITY STABILITY AT LOCAL AND REGIONAL SCALES Sokol, Eric; Anderson, Kurt; Brown, Bryan; Swan, Christopher	BIOLOGICAL REGIONALISM SERIES: MAKING SCIENCE ACCESSIBLE THROUGH ART Rey, Alberto	LEAF LITTER DECOMPOSITION IN EUTROPHIC PONDS Fortino, Kenneth; Peters, Kaitlyn; Marcellus, Julia; Andrews, Jennifer; Tacik, Leanna; Hoak, Jessica; Waters, Matthew	RESPONSES OF STREAM FUNCTIONAL PROCESSES FROM THE MANIPULATION OF FISH AND AMPHIBIANS Argerich, Alba; Penaluna, Brooke; Pickens, Francisco A.T.; Mowlds, Emilee
11:30 AM – 11:45 AM	INFLUENCE OF STORMWATER CONTROL MEASURES ON WATER QUALITY IN SMALL, NESTED SUBURBAN WATERSHEDS Scarlett, Rachel; McMillan, Sara; Bell, Colin; Jefferson, Anne; Clinton, Sandra; Rao, Suresh	METAPOPOPULATION STABILITY IN BRANCHING RIVER NETWORKS Terui, Akira; Ishiyama, Nobuo; Urabe, Hirokazu; Ono, Satoshi; Finlay, Jacques; Nakamura, Futoshi	FOR THE LOVE OF RIVERS: CROSSING BOUNDARIES TO REACH DIVERSE AUDIENCES THROUGH NARRATIVE NONFICTION LINKED WITH VIDEO Fausch, Kurt D.; Monroe, Jeremy	BLURRED LINES: AUTOTROPHIC AND HETEROTROPHIC FOOD RESOURCES AND MACROINVERTEBRATE COMMUNITIES IN HEADWATER STREAMS Eckert, Rebecca; Lamp, William	AQUATIC INSECT FUNCTIONAL DIVERSITY ALONG CANOPY COVER, ELEVATION AND WATER TEMPERATURE GRADIENTS IN ROCKY MOUNTAIN STREAMS Gutierrez, Carolina; Harrington, Rachel; Kondratieff, Boris; Webb, Colleen; Ghalambor, Cameron; Poff, LeRoy
11:45 AM – 12:00 PM	MONITORING URBAN FORESTED HEADWATERS FOR A BETTER UNDERSTANDING OF URBAN WATERSHED MANAGEMENT Clinton, Sandra; McMillan, Sara; Vinson, David	MULTI-SCALE BIODIVERSITY DRIVES STABILITY IN MACROSYSTEMS McCluney, Kevin; Patrick, Christopher; Ruhi, Albert; Sabo, John; Thorp, James; Gregory, Andrew	WRITING ABOUT SCIENCE FOR CHILDREN: THE TEAM IT TOOK TO WRITE OUR BOOKS Li, Judy; Herring, M. L.	EFFECTS OF LIGHT AND THE SELECTIVELY OMNIVOROUS SHRIMP MACROBRACHIUM OHIONE ON DETRITAL MICROBIAL BIOFILMS IN STREAMS Brady, Cheyenne; Francoeur, Steve; Halvorson, Halvor; Kuehn, Kevin	POLLUTING A STREAM FOR THE SAKE OF SCIENCE: A BACI EXPERIMENT ON THE ECOLOGICAL EFFECTS OF WWTP EFFLUENTS Elosegi, Arturo; Atristain, Miren; Barrado, Miren; de Guzman, Ioar; González, Jose Manuel; Larrañaga, Aitor; Pereda, Olatz; Perez-Calpe, Vicky; Solagaistua, Libe; von Schiller, Daniel
12:00 PM – 12:15 PM	INTERMITTENT AND PERENNIAL STREAM MACROINVERTEBRATE COMMUNITY RESPONSE TO IMPERVIOUS COVER: THRESHOLD INDICATOR TAXA ANALYSIS AND PERMUTATIONS Figary, Stephanie; Detenbeck, Naomi	SPATIAL VARIATION AND ASYNCHRONY ON BRANCHING RIVER NETWORKS Anderson, Kurt	ENCOURAGING YOUR INNER COUSTEAU – STORYTELLING APPROACHES FOR AQUATIC SCIENTISTS Monroe, Jeremy		USING ECOLOGICAL EXPERTISE AND ASSESSMENT DATA TO INFORM FUNCTIONAL IMPROVEMENT IN STREAM RESTORATIONS Ruck, Chris; Astin, LeAnne; Witt, Jonathan
12:15 PM – 12:30 PM	METABOLIC REGIME ALTERED BY TREATED WASTE WATER INPUTS IN AN INTERMITTENT STREAM Bernal, Susana; Lupon, Anna; Drummond, Jennifer; Gacia, Esperança; Castelar, Sara; Ribot, Miquel; Martí, Eugènia	ANALYZING NEOTROPICAL DIATOM METACOMMUNITIES ACROSS SPACE AND TIME Benito, Xavier; Fritz, Sheryllyn; Steinitz-Kannan, Miriam; Vélez, Maria; Feitl, Melina; McGlue, Michael	RAISING WATER AWARENESS THROUGH SCIENCE, MUSIC, AND DANCE Steinman, Alan; Cho, Sookkyung; Seidel, Hannah		

330B	410A	410B	420A	420B	430B	SESSION
C10 Biogeochemistry <i>Moderator: John Quinn</i>	C17 Bioassessment <i>Moderator: Kate Macneale</i>	C14 Hydroecology <i>Moderator: Song Qian</i>	C25 Food Webs <i>Moderator: Thomas Parr</i>	S08 Re-eutrophication of Lake Erie: Causes, Consequences, and Possible Solutions <i>Moderator: Lauren Kinsman-Costello</i>	S15 Crossing Boundaries: Watershed-tributary-lake Exchanges in the Great Lakes Region <i>Moderator: Matthew Cooper</i>	11:00 AM - 11:15 AM
IN SITU CHAMBER EXPERIMENTS REVEAL DRIVERS OF DISSOLVED NITROGEN AND PHOSPHORUS ATTENUATION DURING SUMMER IN THE TUKITUKI RIVER, NEW ZEALAND Quinn, John ; Schiff, Sherry	OPTIMAL METHODS FOR BIOMONITORING AND CONSERVATION EFFORTS: A CASE STUDY FROM THE OGEECHEE RIVER Murray, Kelly ; McHugh, Joseph; Batzer, Darold	INTERACTIVE EFFECTS OF HYDROGEOMORPHIC CHARACTERISTICS ON FISH COMMUNITY STRUCTURE IN A FLOODPLAIN RIVER Delong, Michael ; Thoms, Martin; Sorensen, Ethan	THE EFFECTS OF OVERLAPPING CONSUMER AGGREGATIONS ON THE DECOMPOSITION OF LEAF LITTER. Rose, Matthew ; Parr, Thomas; Vaughn, Caryn	TRENDS IN TRIBUTARY LOADING TO LAKE ERIE: THE IMPORTANCE OF DISSOLVED PHOSPHORUS Johnson, Laura ; Baker, David; Confesor, Remegio; Ewing, Ellen; Kramer, Jack	SPATIOTEMPORAL VARIATION IN TRIBUTARY NUTRIENT CONCENTRATIONS: A SEASONAL PERSPECTIVE FOR LAKE MICHIGAN Mooney, Robert J. ; McKinley, Galen; Gloege, Lucas; McIntyre, Peter B.	11:15 AM - 11:30 AM
NITROGEN CYCLING, RIVER METABOLISM, AND WINTER: IMPACT OF NITROGENOUS WASTE PULSE RELEASES ON THE KANSAS RIVER Kelly, Michelle ; Burgin, Amy J.	A CRITICAL EVALUATION OF A FISH COMMUNITY-BASED INDEX OF BIOTIC INTEGRITY Prestie, Kate ; Phillips, Iain; Janz, Dave; Jardine, Tim	QUANTIFYING THE EFFECTS OF STREAM FLOW ON FISH AND BENTHIC MACROINVERTEBRATE COMMUNITIES – A BAYESIAN NETWORKS MODELING APPROACH Qian, Song ; May, Jason; Kennen, Jonathan; Cuffney, Thomas	ISOSCAPES REVEAL CRITICAL SOURCE AREAS SUSTAINING FLOODPLAIN RIVER FISH ASSEMBLAGES IN NORTHERN AUSTRALIA Bunn, Stuart ; Adame, Fernanda; Stewart-Koster, Ben; Ward, Douglas; Crook, David; Jardine, Tim; Villamarin, Francisco; Valdez, Domini; Douglas, Michael	REDUCED FORMS OF NITROGEN ARE A DIVER OF NON-NITROGEN-FIXING CYANHABS AND TOXICITY IN LAKE ERIE Newell, Silvia E. ; Davis, Timothy W.; Johengen, Tom; Gossiaux, Duane; Burtner, Ashley; Palladino, Danna; McCarthy, Mark	TEMPORAL AND SPATIAL VARIABILITY IN ORGANIC CARBON CONCENTRATION AND COMPOSITION IN LAKE MICHIGAN TRIBUTARIES Remucal, Christina K. ; Berg, Stephanie; Mooney, Robert J.; McConville, Megan B.; McIntyre, Peter B.	11:30 AM - 11:45 AM
METABOLISM IN AN AGRICULTURAL STREAM: IMPACTED RIVERSCAPES RETAIN LONGITUDINAL COMPLEXITY Stalder, Sarah ; Hale, Rebecca; Baxter, Colden; Crosby, Benjamin	SEASONALITY OF TOTAL FATTY ACID PROFILES IN ACID MINE DRAINAGE IMPAIRED STREAMS Drerup, Sam ; Vis, Morgan	RELATIONS AMONG FISH AND INVERTEBRATE COMMUNITIES AND MODELED FLOW METRICS IN THE CAPE FEAR AND PEE DEE/ YADKIN RIVER, NORTH CAROLINA, USA May, Jason ; Qian, Song; Kennen, Jonathan; Cuffney, Thomas	WINTER BASEFLOW CRITICAL FOR STREAM FOOD WEB PRODUCTIVITY IN APLINE STREAMS Rüegg, Janine ; Battin, Tom	STOICHIOMETRY OF N, P, AND SILICA LOADING TO THE WESTERN BASIN OF LAKE ERIE: HYDROLOGICAL CONTROLS AND LIMNOLOGICAL IMPLICATIONS Royer, Todd V. ; Sethna, Lienne; Hood, James	USE OF LOW-ORDER TRIBUTARIES BY LAKE SUPERIOR FISHES: IMPLICATIONS FOR CONSERVATION AND MANAGEMENT Moerke, Ashley ; Kapuscinski, Kevin; Milan, John; Ripple, Paul; Zomer, Frank; Harding, Ian	11:45 AM - 12:00 PM
MULTI-YEAR TRENDS IN SOLUTE CONCENTRATIONS AND FLUXES FROM A SUBURBAN WATERSHED: EVALUATING EFFECTS OF 100-YEAR FLOOD EVENTS Coble, Ashley ; Wymore, Adam; Shattuck, Michelle; Potter, Jody; McDowell, William H.	THE MIGRATION OF A NEARLY-EXTINCT POPULATION OF MASU SALMON TO STREAMS IN THE PIRIKA DAM RESERVOIR IN NORTHERN JAPAN Nunokawa, Masanori ; Kashiwaya, Kazuhisa; Tanise, Atsushi; Shinmme, Ryuichi	EFFECTS OF ANTECEDENT STREAMFLOW AND SAMPLE TIMING ON TREND ASSESSMENTS OF FISH, INVERTEBRATE, AND DIATOM COMMUNITIES Zuellig, Robert ; Carlisle, Daren	SEASONAL TOP DOWN EFFECTS OF FISH ON BENTHIC MACROINVERTEBRATES AND PERIPHYON IN A COLDWATER MICHIGAN STREAM Ellens, Travis J. ; Ruetz III, Carl R.; Kohler, Steven L.	THE INFLUENCE OF ELLEVATED FLOWS ON NITRATE AND PHOSPHORUS EXPORT FROM TWO AGRICULTURAL WATERSHEDS Tank, Jennifer L. ; Hanrahan, Brittany; Mahl, Ursula H.; Speir, Shannon; Trentman, Matt T.; Sethna, Lienne; Royer, Todd V.	VARIABILITY IN PHYSICAL AND BIOLOGICAL EXCHANGE AMONG COASTAL WETLANDS AND THEIR ADJACENT GREAT LAKES Trebitz, Anett ; Sierszen, Mike; Hoffman, Joel; Cotter, Anne	12:00 PM - 12:15 PM
HOMOGENIZATION OF DISSOLVED ORGANIC CARBON IN THE SEDIMENT-WATER INTERFACE OF STREAMS Lee-Cullin, Joseph ; Zarnetske, Jay; Geiger, Rachel; Hampton, Tyler	VARIATION IN MACROINVERTEBRATE PASSIVE SAMPLING DEVICES FOR SOUTHEASTERN COASTAL PLAIN RIVERS Laymon, Kelsey ; Mullis, Damon; Colon-Gaud, Checo	GROUNDWATER AS A SOURCE OF EMERGING CONTAMINANTS TO STREAMS OF THE CHESAPEAKE BAY WATERSHED Thompson, Tyler ; Briggs, Martin; Blazer, Vicki; Wagner, Tyler; Sperry, Adam	ESTIMATING QUALITATIVE FOOD WEB STRUCTURE FROM BIOMONITORING AND LITERATURE-BASED DIET DATA TO DETECT CHANGES IN ECOSYSTEM FUNCTION Buchbinder, Julien	USING OXYGEN ISOTOPES TO TRACE THE FLOW OF DRP ENTERING THE WESTERN BASIN OF LAKE ERIE Marshall, Melanie ; McCluney, Kevin	YOU ARE WHERE YOU EAT: ESTIMATING COASTAL WETLAND-DERIVED RESOURCE USE BY LAKE MICHIGAN SPORT FISH USING STABLE ISOTOPES O'Reilly, Katherine ; Shrovnal, Jeremiah; Houghton, Christopher; Forsythe, Patrick; Lamberti, Gary	12:15 PM - 12:30 PM
WARMING INDUCES ASYMMETRIC CONVERGENCE OF STREAM METABOLIC BALANCE Song, Chao ; Dodds, Walter K.; Ruegg, Janine; Argerich, Alba; Baker, Christina; Bowden, William Breck; Douglas, Michael; Farrell, Kaitlin; Flinn, Michael B.; Garcia, Erica; Helton, Ashley; Harms, Tamara; Jia, Shufang; Jones, Jeremy; Koenig, Lauren; Kominoski, John S.; McDowell, William H.; McMaster, Damien; Parker, Samuel P.; Rosemond, Amy D.; Ruffing, Claire; Sheehan, Ken; Trentman, Matt T.; Whiles, Matt; Wollheim, Wilfred; Ballantyne, Ford	CHIRONOMIDAE (INSECTA: DIPTERA) OF SAN SALVADOR ISLAND, BAHAMAS: ENHANCING KNOWLEDGE OF NEOTROPICAL BIODIVERSITY Anderson, Alyssa ; Wollman, Katherine M.; Kranzfelder, Petra	STRANGER THINGS: QUANTIFYING BIOLOGICAL COMMUNITIES IN MICROHABITATS IN ARIDLAND RIVERS Burdett, Ayesha ; Bixby, Rebecca; Gregory, Angela; AuBuchon, Jonathan; Schroeder, Nathan	EFFECTS OF FISHES ON AQUATIC INSECTS IN LINKED AQUATIC-TERRRESTRIAL FOOD WEBS Seidel, Tyler ; Wesner, Jeff	TESTING OPTIONS FOR REACHING LAKE ERIE'S PHOSPHORUS REDUCTION TARGETS USING MULTIPLE WATERSHED MODELS Kalcic, Margaret ; Martin, Jay; Aloysius, Noel; Apostel, Anna; Kast, Jeffrey; Kujawa, Haley; Muenich, Rebecca; Scavia, Donald; Teshager, Awoke; Wang, Yu-Chen; Long, Colleen; Boles, Chelsie; Redder, Todd; Confesor, Remegio; Guo, Tian; Robertson, Dale; Becker, Richard		



Monday — Afternoon Oral

MAY 21, 2018

	310A	310B	320	321	330A
SESSION	S28 Reframing the Science of Urbanized Headwater Streams <i>Moderator: Rebecca Hale</i>	S20 Emerging Approaches to Modeling Population and Community Dynamics in Fresh Waters <i>Moderator: Jonathan Tonkin</i>	C21 Communicating Science <i>Moderator: Ralph Odgen</i>	S03 Death and Decomposition in Aquatic Ecosystems <i>Moderator: Eric Benbow</i>	C04 Microbial Ecology <i>Moderator: Lee Stanish</i>
2:00 PM - 2:15 PM	URBANIZATION, STREAM BASE FLOW, AND STREAM-FLOW PERMANENCE Bhaskar, Aditi	EXPLORING THE RELATIONSHIP BETWEEN FLOW AND METACOMMUNITIES IN CATCHMENTS Saffarinia, Parsa; Anderson, Kurt	LESSONS FROM ATTEMPTS TO GET SCIENCE TO AFFECT WATER POLICY AND MANAGEMENT Ogden, Ralph	DEATH AND DECOMPOSITION IN AQUATIC ECOSYSTEMS Benbow, M. Eric; Lamberti, Gary	A GUT FEELING: THE EFFECTS OF LEAF LITTER TYPE ON THE ACTIVE MICROBIOME OF A SHREDDING CADDISFLY Koch, Benjamin; Fritz, Rebecca; Hayer, Michaela; Schwartz, Egbert; Hungate, Bruce; Marks, Jane
2:15 PM - 2:30 PM	HOW IS A STREAM IMPACTED BY BURIAL? EXAMINING THE SPATIAL VARIATION WITHIN URBAN BURIED STREAMS IN CINCINNATI, OH. Hintz, Chelsea; Newcomer-Johnson, Tammy; Fritz, Ken; Buffam, Ishi	CONNECTING LONG-TERM DATA WITH FINE-SCALE VARIATION: USING REMOTE SENSING TO EVALUATE SPATIOTEMPORAL DYNAMICS OF DRYLAND PONDS Farruggia, Mary; Halabisky, Meghan; Mims, Meryl	AN ONLINE RESOURCE CENTER FOR ENVIRONMENTAL DNA TOOLS AND INFORMATION EXCHANGE Strickler, Katherine; Risenmay, Ryan; Goldberg, Caren	AQUATIC MACROINVERTEBRATE SIZE-SPECTRA IN SALMON-BEARING STREAMS Walquist, Ryan	BACTERIAL AND FUNGAL SPECIES RESPOND DIFFERENTLY TO LEAF LITTER TYPE: APPLICATIONS OF QUANTITATIVE STABLE ISOTOPE PROBING (QSIP) Hayer, Michaela; Fritz, Rebecca; Hungate, Bruce; Koch, Benjamin; Schwartz, Egbert; Marks, Jane
2:30 PM - 2:45 PM	HIGH BETA-DIVERSITY OF URBANIZED STREAM MICROBIAL COMMUNITIES Hosen, Jacob; Crump, Byron; Leal, Charles; Lowenthal, Rachel; Song, Wenjun; Weber, Lisa; Raymond, Peter	SEASONAL VARIATION IN COMMUNITY SIZE STRUCTURE: POTENTIAL EFFECTS OF TEMPERATURE AND HYDROLOGY ON THE SIZE-SPECTRUM McGarvey, Daniel; Kirk, Andrew	PROTECTING INLAND LAKE NEARSHORE HABITAT THROUGH EDUCATION, ENGAGEMENT, AND CITIZEN SCIENCE IN MICHIGAN, USA Latimore, Jo A.; Bhakta, Bindu R.; Elgin, Erick; Kirkwood, Julia; Steen, Paul J.; Wilmes, Marcy Knoll	THE ROLE OF THE MISSING DEAD IN NORTH AMERICAN RIVERS Wenger, Seth; Subalusky, Amanda; Freeman, Mary	THE MOSQUITO TREE HOLE ECOSYSTEM AS A HYPOXIC REDUCING ENVIRONMENT: IMPLICATIONS FOR VECTOR CONTROL Kirk, Jennifer; Kashefi, Kazem; Walker, Edward
2:45 PM - 3:00 PM	SETTING MANAGEMENT TARGETS FOR URBANIZED STREAMS: CONSTRAINTS AND OPPORTUNITIES Paul, Michael; Allen, Diane	SPATIAL AND TEMPORAL DRIVERS OF VARIATION IN FEEDING RATES OF A STREAM PREDATOR Preston, Dan; Falke, Landon; Henderson, Jeremy; Novak, Mark	DAM REMOVAL FOR RIVER RESTORATION WITHING THE COMPENSATORY MITIGATION SCHEME Souza, Simone; Gardner, Kevin; Jansujwicz, Jessica; Uchida, Emi; Hart, David; Roy, Samuel; Evans, Alexandra	DIRECT AND INDIRECT IMPACTS OF MASS MORTALITY EVENTS OF INVASIVE BIVALVES McDowell, William G.; Sousa, Ronaldo	ASSESSING BIOGEOGRAPHIC GAPS IN BACTERIAL DIVERSITY KNOWLEDGE: A GLOBAL REVIEW OF LOTIC HABITATS Veach, Allison; Troia, Matthew; Cregger, Melissa
3:00 PM - 3:15 PM	CAUSES AND CONSEQUENCES OF URBAN HEADWATER HETEROGENEITY Hale, Rebecca	THE INFLUENCE OF NUTRIENT ENRICHMENT OF RIVERINE FOOD WEB RESILIENCE Death, Russell; Canning, Adam	CITIZEN SCIENCE AND SWIMMABILITY: INCORPORATING COMMUNITY MEASURES INTO RECREATIONAL WATER QUALITY CRITERIA Valois, Amanda; Milne, Juliet; Stott, Rebecca; Davies-Colley, Rob	FORENSIC APPLICATIONS OF STUDYING DEATH AND DECOMPOSITION Wallace, John	POTENTIAL SYMBIOTIC NITROGEN PROVISIONING BY FRESHWATER INSECT GUT MICROBES THROUGH NITRATE REDUCTION. Ayayee, Paul; Bhattacharyya, Sohini; Leff, Laura
3:15 PM - 3:30 PM	COMPARISON OF DIFFERENT METABOLISM MEASUREMENT METHODS TO EVALUATE IMPACT OF WASTEWATER TREATMENT PLANT EFFLUENT DISCHARGE ON AN URBAN STREAM Ledford, Sarah; Kurz, Marie; Toran, Laura	AN INVESTIGATION OF DEMOGRAPHIC RESPONSE VARIATION AMONG STREAM FISHES AS A MECHANISM TO MAINTAIN COMMUNITY DIVERSITY. Pregler, Kasey; Kim, Seoghyun; Kanno, Yoichiro	IMPROVING OUTCOMES OF ENVIRONMENTAL FLOWS THROUGH ADAPTIVE MANAGEMENT: AUSTRALIA'S LONG-TERM INTERVENTION MONITORING PROJECT Webb, J Angus; Dyer, Fiona; Frazier, Paul; Gawne, Ben; Marsh, Paul; Ryder, Darren; Wassens, Skye; Watts, Robyn; Ye, Qifeng		EARLY INSIGHTS INTO THE NEON PROJECT FOR LONG-TERM STUDIES OF AQUATIC MICROBIAL ECOLOGY Stanish, Lee; Parker, Stephanie

330B	410A	410B	420A	420B	430B	
C10 Biogeochemistry <i>Moderator: Maury Valett</i>	C05 Unionid Ecology <i>Moderator: David Zanatta</i>	C14 Hydroecology <i>Moderator: Ben Abbott</i>	C06 Large River Ecology <i>Moderator: Alexander Reisinger</i>	S08 Re-eutrophication of Lake Erie: Causes, Consequences, and Possible Solutions <i>Moderator: Silvia Newell</i>	S14 Crossing Brook Trout Boundaries: Interdisciplinary Approaches to Salvelinus Fontinalis Research, Management, and Outreach <i>Moderator: Emma Lundberg</i>	SESSION
EMERGENT METABOLIC REGIMES OF RIVER NETWORKS Koenig, Lauren; Helton, Ashley; Savoy, Philip; Hall, Robert; Bernhardt, Emily	JOINT SPECIES DISTRIBUTION MODELS: BIOTIC INTERACTIONS AND SCALE AFFECT FRESHWATER MUSSEL COMMUNITIES IN EAST TEXAS Francis, Robert A; Walters, Ashley D; Ford, Neil B; Berg, David J	BUY ONE, GET ONE FREE: INTEGRATING ECOLOGY AND HYDROGEOLOGY TO CONSERVE ALABAMA'S BURROWING CRAYFISH POPULATIONS AND GROUNDWATER RESOURCES Bearden, Rebecca; Hurny, Alexander	EPIPLITHIC BIOMASS ABUNDANCE AND COMPOSITION: INFLUENCES ON ALLOCHTHONOUS AND AUTOCHTHONOUS NITROGEN SOURCES Bray, Kim; Peipoch, Marc; Valett, H. Maurice	RESTORING STREAM ECOSYSTEM FUNCTION ON WORKING LANDS TO IMPROVE WATER QUALITY Roley, Sarah S.; Tank, Jennifer L.; Hanrahan, Brittany; Trentman, Matt T.	CROSS-DISCIPLINARY SCIENCE AND PUBLIC ENGAGEMENT IN THE MANAGEMENT OF WISCONSIN'S BROOK TROUT FISHERIES Mitro, Matthew	2:00 PM - 2:15 PM
NUTRIENT PROCESSING DOMAINS AS FUNCTIONAL SPACE FOR LOTIC ECOSYSTEMS: THE CASE OF THE UPPER CLARK FORK RIVER, MONTANA Valett, H. Maurice; Burgin, Amy J.; Hamilton, Stephen; McGuire, Kevin; Peipoch, Marc; Sponseller, Ryan; Stanley, Emily	ORDINATION ANALYSIS REVEALS THREE DISTINCT FRESHWATER MUSSEL ASSEMBLAGES CORRELATED WITH RIVER MILE AND AGRICULTURE IN THE BLACK RIVER, MISSOURI AND ARKANSAS Christian, Alan; McCarty, Sean; Dimino, Thomas; Hotz, Helenmary; Bethel, Delilah; McMurray, Stephen; Harris, John	NONSTATIONARITY IN LOW FLOWS AT SOUTH-EAST U.S. STREAMFLOW GAGES Bledsoe, Brian; Stephens, Timothy	TROUT RECOVERY IN A RESTORED RIVER: COMBINING METAL BURDEN AND STABLE ISOTOPE APPROACHES Peipoch, Marc; Bray, Kimberly; Valett, H. Maurice	EVALUATION OF EUTROPHICATION MITIGATION MEASURES AT FINE SPATIAL AND TEMPORAL RESOLUTION Bieroza, Magdalena	MOBILIZING COMMUNITY INVOLVEMENT TO EXPAND RESEARCH: THE EFFECTS OF HISTORIC LAND-USE ON WILD BROOK TROUT (SALVELINUS FONTINALIS) IN NEW HAMPSHIRE Morrill, Tyson; O'Donnell, Brigid; Villamagna, Amy	2:15 PM - 2:30 PM
SEASONAL PROGRESSION OF CONCENTRATION AND UPTAKE OF NITROGEN AND PHOSPHORUS IN A ROCKY MOUNTAIN STREAM West, Derek; Balik, Jared; Taylor, Brad	NON-LETHAL TECHNIQUES TO EVALUATE UNIONID HEALTH WITH APPLICATION FOR ASSESSING THE IMPACT OF CONTAMINANTS: MAUMEE RIVER BASIN, OHIO, USA Dennis, Nicole; Annis, Mandy; Woolnough, Daelyn	THE PAST AS A PREDICTOR: IMPORTANCE OF ANTECEDENT FLOW FOR EXPLAINING ECOLOGICAL TRENDS IN AN URBAN RIVERSCAPE Roberts, James J.; Zuellig, Robert; Bruce, James	INTERACTIONS AMONG HABITAT COMPLEXITY, MACROINVERTEBRATES, AND TROPHIC DYNAMICS DOWNSTREAM OF A LARGE-RIVER DAM: IMPLICATIONS FOR FOOD WEB STABILITY Scholl, Eric; Dutton, Addie; Cross, Wyatt; Guy, Christopher	LAND COVER CHANGE THROUGH THE PLANTING OF COVER CROPS REDUCES PHOSPHORUS LOSS FROM AN AGRICULTURAL WATERSHED Hanrahan, Brittany; Tank, Jennifer L.; Christopher, Sheila; Trentman, Matt T.; Mahl, Ursula H.; Royer, Todd V.	RESTORATION OF A COASTER BROOK TROUT POPULATION AND A SPAWNING SITE IMPACTED BY FINE SEDIMENTS Huckins, Casey; Matthys, Tony; Danhoff, Brian; Marcarelli, Amy; Baker, Edward	2:30 PM - 2:45 PM
RIVER NETWORK SATURATION HYPOTHESIS: FACTORS INFLUENCING BIOGEOCHEMICAL DEMAND OF ENTIRE RIVER NETWORKS RELATIVE TO SUPPLY Wollheim, Wilfred; Bernal, Susana; Burns, Doug; Czuba, Jonathan; Driscoll, Charles; Hansen, Amy; Hensley, Robert; Hosen, Jacob; Kaushal, Sujay; Koenig, Lauren; Lu, Y.; Marzadri, Alessandra; Raymond, Peter; Scott, Durelle; Stewart, Robert; Vidon, Philippe; Wohl, Ellen	QUANTITATIVE FRESHWATER MUSSELS SURVEYS (BIVALVIA:UNIONIDA) IN THE LOWER STRAWBERRY RIVER, AR Sanchez Gonzalez, Irene; Harris, John; Bouldin, Jennifer	WHAT WE CAN AND CAN NOT LEARN FROM THE GEOPHYSICAL IMAGING OF THE HYPORHEIC ZONE Kohler, Brady; Befus, Kevin; Carr, Brad; Hall, Robert	MANAGEMENT AND LIMNOLOGY INTERACT TO DRIVE WATER TEMPERATURE PATTERNS IN AN IMPOUNDED MIDDLE ROCKIES RIVER SYSTEM McLaren, John; Royer, Todd V.; Van Kirk, Rob; Muradian, Melissa	COMPARING THE ROLE OF BIOTIC AND ABIOTIC FACTORS INFLUENCING PHOSPHORUS CYCLING IN CONSTRUCTED FLOODPLAINS OF MULTIPLE AGRICULTURAL STREAMS Trentman, Matt T.; Tank, Jennifer L.; Royer, Todd V.; McMillan, Sara; Johnson, Alex	SPATIAL AND TEMPORAL MOVEMENTS OF BROOK TROUT IN A SOUTHERN LAKE SUPERIOR TRIBUTARY Adams, Christopher; Huckins, Casey; Marcarelli, Amy	2:45 PM - 3:00 PM
PERMAFROST DETERMINES SOURCES OF DISSOLVED INORGANIC CARBON IN BOREAL FOREST WATERSHEDS Voight, Rachel; Jones, Jeremy	EFFECTS OF SUSPENDED SOLIDS AND SALINITY ON VALVE CLOSURE OF TWO RARE MUSSEL SPECIES FROM CENTRAL TEXAS. Fluharty, Ryan	EXPLORING THE SPATIAL AND TEMPORAL DRIVERS OF MACROINVERTEBRATE ASSEMBLAGES IN THE PEACE-ATHABASCA DELTA, ALBERTA, CANADA Monk, Wendy; Peters, Daniel; Porter, Teresita; Hajibabaei, Mehrdad; Baird, Donald	METABOLIC REGIMES OF THE SUSQUEHANNA RIVER: CONTROLS ON VARIABILITY AT DIFFERENT TEMPORAL SCALES McTammany, Matthew; Faulkner, Katharine	SHORT-TERM IMPACTS OF PHRAGMITES MANAGEMENT ON NUTRIENT RETENTION IN LAKE ERIE COASTAL MARSHES Judd, Kristi; Francoeur, Steven	WITH CONNECTIVITY COMES CHALLENGES: BROOK TROUT METAPOPULATION DYNAMICS REVEAL UNIQUE MANAGEMENT CHALLENGES White, Shannon; Wagner, Tyler	3:00 PM - 3:15 PM
AQUATIC METABOLISM IS AN IMPORTANT DRIVER OF CO ₂ DYNAMICS IN ARCTIC STREAMS OF SWEDEN Rocher-Ros, Gerard; Sponseller, Ryan; Mörth, Carl-Magnus; Myrstener, Maria; Giesler, Reiner	COMPARISON OF ENZYMATIC THERMAL TOLERANCE AMONG RARE AND COMMON MUSSEL SPECIES OF CENTRAL TEXAS Stoeckel, Jim; Haney, Austin; Abdelrahman, Hisham; Helms, Brian	ALTERATION OF STREAMFLOW REGIMES IN THE UNITED STATES Eng, Ken		OPENING THE BIOGEOCHEMICAL BLACK BOX: NUTRIENT REMOVAL IN A GREAT LAKES COASTAL WETLAND (OLD WOMAN CREEK, OH) AT WHOLE-ECOSYSTEM AND MECHANISTIC SCALES Kinsman-Costello, Lauren; Richardson, Bree; Arend, Kristin; Johnson, Laura	AN INTERDISCIPLINARY, COLLABORATIVE FUTURE FOR BROOK TROUT RESEARCH AND MANAGEMENT Lundberg, Emma; Gottschalk Druschke, Caroline	3:15 PM - 3:30 PM



Tuesday — Early Morning Oral

MAY 22, 2018

	310A	310B	320	321	330A
SESSION	S13 Ecoacoustic Methods for Continuous Freshwater Monitoring <i>Moderator: Simon Linke</i>	S22 Transcending Aquatic-terrestrial Boundaries: Ecology, Conservation and Management of Temporary Freshwaters <i>Moderator: Ross Vander Vorste</i>	S24: Advancing Freshwater Science: A Discussion with the National Science Foundation <i>Moderator: Tom Turner</i>	S03 Death and Decomposition in Aquatic Ecosystems <i>Moderator: Gary Lamberti</i>	S23 The Evolving Science Supporting Biological Assessments and Criteria <i>Moderator: Lester Yuan</i>
9:00 AM - 9:15 AM	ECOACOUSTICS: THE ECOLOGICAL ROLE OF SOUNDS Gage, Stuart	TRANSCENDING AQUATIC-TERRESTRIAL BOUNDARIES: ECOLOGY, CONSERVATION AND MANAGEMENT OF TEMPORARY FRESHWATERS Allen, Daniel; Costigan, Katie; Mazor, Raphael; Ruhl, Albert; Stubbington, Rachel; Vander Vorste, Ross	Discussion	A RIVER OF BONES: WILDEBEEST SKELETONS LEAVE A LEGACY OF MASS MORTALITY IN THE MARA RIVER Subaluskay, Amanda; Dutton, Christopher; Rosi, Emma; Puth, Linda; Post, David	TOP TECHNICAL CHALLENGES TO ADVANCING DEVELOPMENT AND APPLICATION OF BIOASSESSMENTS AND BIOCRITERIA Jackson, Susan
9:15 AM - 9:30 AM	UNDERWATER ECOACOUSTICS AS A MONITORING TOOL IN FRESHWATER ENVIRONMENTS Desjonquères, Camille; Rybak, Fanny; Gifford, Toby; Linke, Simon; Sueur, Jérôme	RESOURCE SUBSIDIES ACROSS AQUATIC-TERRESTRIAL BOUNDARIES OF TEMPORARY PONDS Fritz, Kelley; Whiles, Matt	Discussion	CONSEQUENCES OF SALMON SPAWNING TO RESIDENT FISH IN GREAT LAKES TRIBUTARIES Gerig, Brandon; Chaloner, Dominic; Rediske, Richard; Moerke, Ashley; Janetski, David; Lamberti, Gary	USE OF METAGENOMICS DATA FOR MONITORING: PROMISES AND CHALLENGES Yuan, Lester; Mitchell, Richard; Pilgrim, Erik
9:30 AM - 9:45 AM	STUDY DESIGN IN FRESHWATER ECOACOUSTICS – CHOICE OF INDICATORS AND SAMPLING SCHEDULE Linke, Simon; Decker, Emilia; Gifford, Toby; Desjonquères, Camille	NOVEL BIOMONITORS FOR DRY-PHASE ECOLOGICAL HEALTH ASSESSMENTS TRANSCEND AQUATIC-TERRESTRIAL BOUNDARIES IN TEMPORARY RIVERS Stubbington, Rachel; Barthès, Amélie; Bouchez, Agnès; Datry, Thibault; England, Judy; Paillex, Amael; Westwood, Chris	Discussion	SHORT AND LONG-TERM IMPACTS OF SALMON CARCASS DECOMPOSITION ON STREAM MICROBIAL COMMUNITY STRUCTURE: ALLOCHTHONOUS MICROBIAL SUBSIDIES TO DOWNSTREAM FOOD WEBS. Larson, Courtney; Weatherbee, Courtney; Pechal, Jennifer L.; Gerig, Brandon; Chaloner, Dominic; Lamberti, Gary; Benbow, M. Eric	AN EMERGING BIOMONITORING APPROACH FOR DETECTING CHANGE IN AQUATIC ENVIRONMENTS Brua, Robert B.; McKenzie, Sarah; Culp, Joseph M.; Yates, Adam G.
9:45 AM - 10:00 AM	MONITORING THE CHANGE IN THE DIVERSITY OF SPECIES WITHIN REEDY SWAMP USING ACOUSTIC MONITORING TECHNIQUES DURING THE DELIVERY OF AN ENVIRONMENTAL WATER DELIVERY Wood, Jo	ASSESSING ECOLOGICAL HEALTH OF DRY PHASE INTERMITTENT RIVERS AND EPHEMERAL STREAMS Robinson, Matthew; Olson, John; Mazor, Raphael	Discussion	WHEN ARE FISH SOURCES VS. SINKS OF NUTRIENTS IN LAKE ECOSYSTEMS? THE ROLE OF CARCASS DECOMPOSITION Nobre, Regina; Carneiro, Luciana S.; Panek, Sarah E.; Vanni, Michael	LINKING BIOLOGICAL RESPONSE TO CATCHMENT MANAGEMENT: THE DEVELOPMENT AND TESTING OF DIAGNOSTIC BIOTIC INDICES Jones, John Iwan; Murphy, John; Arnold, Amanda; Duerdoth, Chaz; Pretty, James; Collins, Adrian
10:00 AM - 10:15 AM	DISCERNING CYCLIC PATTERNS AND HABITAT VARIATION IN UNDERWATER SOUNDSCAPES IN THE LAURENTIAN GREAT LAKES Heath, Victoria; Mickle, Megan; Higgs, Dennis	COMMUNITY RESPONSES TO NATURAL AND ANTHROPOGENIC DISTURBANCES: STRUCTURAL AND FUNCTIONAL INSIGHTS FROM MEDITERRANEAN STREAMS Soria Extremera, Maria; Bonada, Nuria; Gutiérrez-Cánovas, Cayetano; Acosta, Raúl; Rodríguez-Lozano, Pablo; Prat, Narcís; Gallart, Francesc; Cid, Núria	Discussion	ANIMAL MASS MORTALITIES IN AQUATIC ECOSYSTEMS: HOW COMMON AND INFLUENTIAL? Lamberti, Gary; Benbow, M. Eric; Chaloner, Dominic	ARE TRAITS AN EFFECTIVE TOOL FOR IDENTIFYING STRESSORS AND ESTABLISHING STRESSOR CRITERIA? Schäfer, Ralf
10:15 AM - 10:30 AM	ECOACOUSTIC MONITORING OF LAKE STURGEON (ACIPENSER FULVESCENS) SPAWNING AND ITS RELATION TO ANTHROPOGENIC NOISE IN THE DETROIT RIVER. Higgs, Dennis	HOW DOES URBANIZATION AFFECT AQUATIC-TERRESTRIAL LINKAGES IN INTERMITTENT STREAMS? Courtwright, Jennifer; Laub, Brian	Discussion		APPLYING OREGON'S SEDIMENT-SPECIFIC STRESSOR INDEX: SCIENTIFIC AND POLICY CHALLENGES Hubler, Shannon

330B	410A	410B	420A	420B	430B	SESSION
C10 Biogeochemistry <i>Moderator: Martha Dee</i>	C20 Climate Change <i>Moderator: Kevin Simon</i>	C22 Disturbance <i>Moderator: Christopher Patrick</i>	C11 Community Ecology <i>Moderator: Sophia Bonjour</i>	S18 Aquatic Biodiversity Surveillance Using Environmental Genomics <i>Moderator: Erik Pilgrim</i>	S19 Aquatic Invasive Species in the Laurentian Great Lakes Region <i>Moderator: Scott Tiegs</i>	
USING EXPERIMENTAL STREAMS TO UNDERSTAND THE ROLE OF BIOFILM COLONIZATION AND DISTURBANCE IN ESTIMATING REAERATION USING ARGON GAS AS A DIRECT TRACER AT ND-LEEF Dee, Martha M. ; Tank, Jennifer L.; Shogren, Arial; Trentman, Matt T.; Speir, Shannon	INTERSPECIFIC INTERACTIONS ARE CONDITIONAL ON TEMPERATURE IN AN APPALACHIAN STREAM SALAMANDER COMMUNITY Cecala, Kristen ; Hofacker, Mary Lou; Ennen, Josh; Mitchell, Shawna; Davenport, Jon	THE COMPLEX RESPONSE OF HIGHLY MODIFIED RIVERS TO ADDITIONAL DRIVERS OF CHANGE DeBoer, Jason ; Thoms, Martin; Delong, Michael; Casper, Andrew	INFLUENCE OF NATIVE FRESHWATER MUSSEL FUNCTIONAL TRAITS AND COMMUNITY STRUCTURE ON NITROGEN TRANSFORMATIONS IN BENTHIC SEDIMENTS Nickerson, Zachary L. ; Mortazavi, Behzad; van Ee, Brian; Atkinson, Carla	BIOMONITORING 2.0: FROM POTENTIAL TO PRACTICE Bush, Alex ; Emilson, Erik; Gagné, Nellie; Hajibabaei, Mehrdad; Lapen, David; Steeves, Royce; Porter, Terri; Baird, Donald; Ogden, Nick; Lung, Oliver	UTILIZING OUTREACH TO REDUCE AQUATIC INVASIVE SPECIES FROM THE PET AND GARDEN TRADE Filice, Paige ; Latimore, Jo A.	9:00 AM - 9:15 AM
GREENHOUSE GAS FLUXES FROM AQUATIC ECOSYSTEMS ALONG A RURAL TO URBAN GRADIENT ARE DRIVEN BY N LOADING Potter, Jody ; Wymore, Adam; McDowell, William H.	THE INFLUENCE OF WINTER SEVERITY ON THE COUPLING BETWEEN LAKE ERIE LARVAL WALLEYE AND THEIR PREY Huddleston, Amara ; May, Cassandra; Stone, Joshua; Ludsins, Stu; Marschall, Elizabeth; Hood, James	SHORT-TERM STREAM RESPONSES TO HURRICANE HARVEY ALONG AN ARIDITY GRADIENT Patrick, Christopher ; Hogan, Derek; Kiel Reese, Brandi; Carvallo, Fernando; Gonzalez, Darcy; Kinard, Sean; Hosen, Jacob	CROSS-HABITAT LINKAGES BETWEEN AQUATIC INSECT SUBSIDIES AND TERRESTRIAL ARTHROPODS Johnson, Richard ; Carlson, Peter; McKie, Brendan	COMPARISON OF QUANTITATIVE PCR WITH DIGITAL DROPLET PCR FOR DETECTION AND QUANTIFICATION OF ENVIRONMENTAL DNA FROM INVASIVE ASIAN CARP Richter, Catherine	DIET AND REPRODUCTIVE INVESTMENT OF NATIVE BENTHIC STREAM FISH IN RESPONSE TO ROUND GOBY INVASION Krabbenhoft, Corey ; Kashian, Donna	9:15 AM - 9:30 AM
SALINITY EFFECTS ON GREENHOUSE GAS EMISSIONS FROM WETLAND SOILS ARE CONTINGENT UPON HYDROLOGIC SETTING: A MICROCOSM EXPERIMENT Ardon, Marcelo ; Helton, Ashley; Bernhardt, Emily	EVIDENCE OF THE TEMPERATURE-SIZE RULE IN CHIRONOMIDAE FROM UTQIAGVIK (BARROW), ALASKA: IMPLICATIONS FOR A WARMING ARCTIC Lackmann, Alec ; McEwen, Daniel; Butler, Malcolm	THE EFFECTS OF ECOSYSTEM DISTURBANCE REGIMES ON COMMUNITY AND LANDSCAPE BIODIVERSITY IN SOUTHEASTERN MASSACHUSETTS HEADWATER STREAMS McCanty, Sean ; Christian, Alan	ENGINEER DENSITY, NOT ENVIRONMENTAL HARSHNESS MODULATES INVERTEBRATE COMMUNITY FACILITATION ACROSS A MONTANE GRADIENT Tumolo, Benjamin ; Alberson, Lindsey; Daniels, Melinda	DNA METABARCODING BASED STREAM ASSESSMENTS - WE'RE READY! Elbrecht, Vasco ; Vamos, Edith; Peinert, Bianca; Arovita, Jukka; Meissner, Kristian; Leese, Florian; Steinke, Dirk	A COMPARISON OF CYANOBACTERIA SENSITIVITY BETWEEN ASIAN CLAMS (<i>CORBICULA FLUMINEA</i>) AND QUAGGA MUSSELS (<i>DREISSENA ROSTRIFORMIS BUGENSIS</i>) Boegehold, Anna ; Johnson, Nicholas; Kashian, Donna	9:30 AM - 9:45 AM
PATCH DYNAMICS OF NITROGEN FIXATION AND DENITRIFICATION IN STREAMS Eberhard, Erin ; Marcarelli, Amy; Baxter, Colden; Techtmann, Stephen	THERMAL ADAPTATION ALTERS THE ECOLOGICAL ROLE OF CONSUMER BODY SIZE Simon, Kevin ; Moffett, Emma; Fryxell, David; Palkovacs, Eric	SHORT-TERM IMPACTS OF HURRICANES IRMA AND MARIA ON TROPICAL STREAM CHEMISTRY AS MEASURED BY IN-SITU SENSORS McDowell, William H. ; Potter, Jody; Lopez-Lloreda, Carla	SYMBIONT DENSITY DETERMINES INTERACTION OUTCOMES IN A FISH REPRODUCTIVE MUTUALISM Silknetter, Sam ; Kanno, Yoichiro; Peoples, Brandon	EFFECTS OF FIELD SAMPLING DESIGN ON ENVIRONMENTAL DNA PERFORMANCE FOR FISH, ZOOPLANKTON, AND ZOOBENTHOS IN TEMPERATE LAKES Larson, Eric ; Drummond, Jennifer; Li, Yiyuan; Lodge, David; Gantz, Crysta; Pfrender, Michael; Renshaw, Mark; Egan, Scott	ECOLOGICAL IMPACTS OF INVASIVE FISH CONTROL: EVIDENCE FROM ZOOPLANKTON RESPONSE TO ASIAN CARP ARRIVAL AND SUPPRESSION IN A LARGE RIVER Casper, Andrew ; DeBoer, Jason; Maxson, Kristopher; Anderson, Alison	9:45 AM - 10:00 AM
INFLUENCE OF LOGJAMS ON DENITRIFICATION IN A MONTANE STREAM NETWORK Carlson, Sam ; Poole, Geoffrey; Wohl, Ellen; Hall, Robert	ASSESSING THE IMPACTS OF UNCERTAINTY IN CLIMATE CHANGE VULNERABILITY ASSESSMENTS Hossain, Md Anwar ; Kujala, Heini; Bland, Lucie; Burgman, Mark; Lahoz-Monfort, Jose	URBAN STREAMS AND THEIR RESPONSE TO EXTREME WEATHER EVENTS: DROUGHT AND HURRICANE IMPACTS ON STREAM BIOTA, PUERTO RICO Ramirez, Alonso ; Gutierrez, Pablo	HABITAT AND LANDSCAPE EFFECTS ON THE RECOVERY OF LARVAL DRAGONFLY COMMUNITIES FOLLOWING POND DRYING French, Sarah ; Benard, Michael; Hoverman, Jason; Relyea, Rick; Skelly, David; Werner, Earl; Yurewicz, Kerry; McCauley, Shannon	ENHANCING PREDICTABILITY OF PRIMER SPECIFICITY FOR EDNA DETECTION OF AQUATIC SPECIES So, Ying Kin Ken ; Hau, Billy; Dudgeon, David	DEPTH AND SEASON-SPECIFIC TRENDS IN INVASIVE QUAGGA MUSSEL GROWTH AND IMPLICATIONS FOR ECOLOGICAL IMPACTS Elgin, Ashley ; Glyshaw, Paul	10:00 AM - 10:15 AM
EFFECT OF DAM REMOVALS ON BIOGEOCHEMICAL AND PHYSICAL PROCESSES Whitney, Christopher ; Wollheim, Wilfred	VULNERABILITY OF FOUR ENDEMIC FISHES TO CLIMATE WARMING IN A TEMPERATE BIODIVERSITY HOTSPOT Troia, Matthew ; Giam, Xingli	HURRICANE IMPACTS TO A TROPICAL STREAM ECOSYSTEM IN THE MOUNTAINS OF PUERTO RICO Gutiérrez-Fonseca, Pablo E. ; Ramirez, Alonso; Pringle, Catherine; Torres, Pedro; Covich, Alan; McDowell, William H.; Crowl, Todd; Perez, Omar	COMMUNITY RESPONSE OF BENTHIC AND EMERGING INSECTS TO FISH DENSITY IN PRAIRIE STREAM PERMANENT WATER REFUGIA Bonjour, Sophia ; Whiles, Matt; Gido, Keith	ENVIRONMENTAL FACTORS AFFECTING BACTERIAL COMMUNITY COMPOSITION IN THE HYPEREUTROPHIC MACATAWA WATERSHED Brokus, Sarah ; Best, Aaron; Garcia, Thomas; Harders, Cassandra; Jeavons, Abigail; Luke, Mallory; Klein, Andrew; Parshall, Abbygale; Perez, Leslie; Plouch, Eleda; Slater, Adam; Wade, Daniel; Moen, Francesco; Payne, Chelsea; Wade, Randall; Krueger, Brent; Pikaart, Michael	COMPARISON OF TRADITIONAL AND E DNA METABARCODING SAMPLING METHODS TO DETECT LOW ABUNDANCE SPECIES IN COMPLEX AQUATIC COMMUNITIES Sard, Nicholas ; Herbst, Seth; Uhrig, Genelle; Kanefsky, Jeannette; Robinson, John; Scribner, Kim	10:15 AM - 10:30 AM



Tuesday — Late Morning Oral

MAY 22, 2018

	310A	310B	320	321	330A
SESSION	S01 Dams, Big Data, and Meta-analyses <i>Moderator: Erin Abernethy</i>	S22 Transcending Aquatic-terrestrial Boundaries: Ecology, Conservation and Management of Temporary Freshwaters <i>Moderator: Rachel Stubbington</i>	C28 Land-Water Interfaces <i>Moderator: Robert Stelzer</i>	S16 Ecological Stoichiometry as a Bridge Across Disciplinary Boundaries in Freshwater Science <i>Moderator: Eric Moody</i>	S23 The Evolving Science Supporting Biological Assessments and Criteria <i>Moderator: Lester Yuan</i>
11:00 AM - 11:15 AM	THE FUTURE OF DAM-IMPACTED RIVERS IN THE ANTHROPOCENE Olden, Julian	FISH ECOLOGY AND CONSERVATION IN INTERMITTENT RIVERS: MAJOR ADVANCES AND KNOWLEDGE GAPS Rodríguez-Lozano, Pablo; Wingenroth, Jordan; Carlson, Stephanie	THE INFLUENCE OF RIVER ALTERATION ON SALMONFLY EMERGENCE PHENOLOGY Anderson, Heidi; Albertson, Lindsey	ECOLOGICAL AND EVOLUTIONARY RESPONSES OF ZOOPLANKTON TO EXTREME EUTROPHICATION Moody, Eric; Wilkinson, Grace	QUANTITATIVE SAMPLING OF BENTHIC MACROINVERTEBRATE COMMUNITIES AND RESPONSE TO ELEVATED SALINITY IN CENTRAL APPALACHIAN COALFIELD STREAMS Pence, Rachel
11:15 AM - 11:30 AM	HOW INTERDISCIPLINARY APPROACHES TO BIG DATA ANALYTICS CAN STRENGTHEN THE ROLE OF SCIENCE IN DAM DECISIONS Roy, Samuel; Uchida, Emi; Wilson, Karen; Neptune, Shantel; Gold, Arthur; Gardner, Kevin; Klein, Sharon; Fox, Emma; Smith, Sean; Zydlewski, Joseph; Hart, David	ISOLATED STREAM POOLS: A BOTTLENECK FOR SURVIVAL OF ENDANGERED COHO SALMON (ONCORHYNCHUS KISUTCH) IN NORTHERN CALIFORNIA Vander Vorste, Ross; Obedzinski, Mariska; Nossaman Pierce, Sarah; Grantham, Ted; Carlson, Stephanie	HYDROLOGIC, MORPHOLOGIC, AND WATER QUALITY EFFECTS OF RURAL DEVELOPMENT IN STREAMS OF THE SOUTHERN BLUE RIDGE MOUNTAINS Jackson, C. Rhett; Webster, Jackson R.; Cecala, Kristen; Frisch, John R.; Maerz, John; Leigh, David S.; Pringle, Catherine; Knoepp, Jennifer	IDENTIFYING QUANTITATIVE TRAIT LOCI UNDERLYING PHOSPHORUS USE IN DAPHNIA PULICARIA Sherman, Ryan; Couger, Brian; Ragavendran, Ashok; Weider, Lawrence; Jeyasingh, Puni	SASKATCHEWAN CONDITION ASSESSMENT OF LOTIC ECOSYSTEMS (SCALE): A MULTIVARIATE TOOL FOR ASSESSING THE INTEGRITY OF NORTHERN GREAT PLAINS WADEABLE RIVERS Phillips, Iain; Bowman, Michelle; Chivers, Doug
11:30 AM - 11:45 AM	HYDRODYNAMIC MODELING WITH BIG DATA IN SUPPORT OF DAM RENEWAL DECISION-MAKING Haralampides, Katy; Ndong, Mouhamed; Yamazaki, Gordon; Curry, Allen	MACROINVERTEBRATE RESPONSE TO LOSS OF CURRENT DURING LOW FLOW EVENTS IN LOWLAND STREAMS Verdonschot, Ralf C.M.; Verdonschot, Piet F.M.	ARTIFICIAL NIGHT LIGHTING IMPACTS RESOURCE EXCHANGE ACROSS AN AQUATIC-TERRESTRIAL BOUNDARY Parkinson, Elizabeth; Tiegs, Scott	STOICHIOMETRIC NICHES IN A SPECIES-RICH COMMUNITY Atkinson, Carla L.; van Ee, Brian; Winebarger, Monica M.	DIATOMS OF NORTH AMERICA: AN AUTHORITATIVE FLORA FOR TAXONOMISTS AND ECOLOGISTS Spaulding, Sarah; Bishop, Ian; Lee, Sylvia; Edlund, Mark; Potapova, Marina
11:45 AM - 12:00 PM	RIVER FRAGMENTATION BY HYDROPOWER IN COSTA RICA AND POTENTIAL IMPACTS FOR FISH FAUNA. Farah-Pérez, Aldo; Picado-Barboza, Jorge; Umaña-Villalobos, Gerardo; Anderson, Elizabeth P	FUNCTIONAL FEATURES OF FISH COMMUNITIES FROM MEDITERRANEAN-CLIMATE STREAMS SHOW CONTRASTING RESPONSES TO DISTURBANCES Cid, Núria; Vinyoles, Dolors; Rodríguez-Lozano, Pablo; Gutiérrez-Cánovas, Cayetano; Bonada, Nuria; Fortuño, Pau; Latron, Jérôme; Llorens, Pilar; Gallart, Francesc; Prat, Narcís	STREAM BASAL RESOURCES EXHIBIT SHORT-TERM RESILIENCE FOLLOWING REACH-SCALE REMOVAL OF A DOMINANT RIPARIAN SHRUB Dudley, Maura; Wenger, Seth; Jackson, C. Rhett; Elliott, Katherine; Miniat, Chely; Pringle, Catherine	ENGINEERED NANOPARTICLES INCREASE EXCRETION RATES OF NITROGEN AND PHOSPHORUS BY FRESHWATER SNAILS IN WETLAND MESOCOSMS Perrotta, Brittany; Simonin, Marie; Matson, Cole; Bernhardt, Emily; King, Ryan S.	CALIFORNIA DREAMIN': A VISION FOR MORE EFFECTIVE USE OF BIOLOGICAL DATA IN WATER RESOURCE MANAGEMENT Ode, Peter; Mazor, Raphael
12:00 PM - 12:15 PM	HOW DOES FLOW HOMOGENIZATION CHANGE AQUATIC INVERTEBRATE COMMUNITY STRUCTURE AND FUNCTIONAL TRAIT DIVERSITY? DuBose, David; McMullen, Laura; Tonkin, Jonathan; Lytle, David	BIOLOGICAL TRAITS REVEAL CONTRASTING AQUATIC INVERTEBRATE DISPERSAL STRATEGIES IN PERENNIAL AND INTERMITTENT RIVERS. Sarremejane, Romain; Bonada, Nuria; Cid, Núria; Cañedo-Argüelles, Miguel; Stubbington, Rachel; Datry, Thibault; Heino, Jani; Gutiérrez-Cánovas, Cayetano; Paillex, Amael; Tierno de Figueroa, J. Manuel; Paril, Petr; Cordero-Rivera, Adolfo; Zamora-Muñoz, Carmen; Usseglio-Polatera, Philippe; Millán, Andrés; Csabai, Zoltan	ECOLOGICAL FACTORS CONTROLLING INSECT-MEDIATED METHYLMERCURY FLUX FROM AQUATIC TO TERRESTRIAL ECOSYSTEMS Chumchal, Matthew; Drenner, Ray	WITHIN-SPECIES VARIATION IN RESPONSE TO PHOSPHORUS LIMITATION IN A NEW ZEALAND SNAIL Neiman, Maurine; Krist, Amy	SUPPORTING MANAGEMENT DECISIONS WITH A LANDSCAPE MODEL TO PREDICT BIOTIC CONDITION IN CA Mazor, Raphael; Beck, Marcus; Ode, Peter; Johnson, Scott; Wisenbaker, Karin; Westfall, Joshua; Markle, Philip
12:15 PM - 12:30 PM			AERIAL INSECTIVOROUS BIRDS: CONSERVATION ACROSS THE LAND-WATER INTERFACE Corra, Joseph W.; Sullivan, S. Mazeika P.		BUILDING LINKS BETWEEN BIOMONITORING AND ENVIRONMENTAL CONSERVATION DECISIONS IN THE UPPER TANA RIVER WATERSHED IN KENYA Ndiritu, George; Njoroge, Peter; Njagi, Edward; Terer, Taita; Malonza, Patrick; Kosgei, Gilbert; Courtemanch, David

330B	410A	410B	420A	420B	430B	SESSION
C10 Biogeochemistry <i>Moderator: Stephanie Robson</i>	C20 Climate Change <i>Moderator: Eric Larson</i>	C22 Disturbance <i>Moderator: Janet Hsiao</i>	C11 Community Ecology <i>Moderator: Tracy Popejoy</i>	S18 Aquatic Biodiversity Surveillance Using Environmental Genomics <i>Moderator: Erik Pilgrim</i>	S19 Aquatic Invasive Species in the Laurentian Great Lakes Region <i>Moderator: Jeremy Geist</i>	
DOES DENITRIFICATION GET MEMORIAL DAY OFF? AN EXAMINATION OF VARIATION IN DENITRIFICATION OVER DAILY TO SEASONAL TIME SCALES IN A FORESTED STREAMS Nevorski, Kevin; Marcarelli, Amy	THE EFFECT OF WHOLE STREAM WARMING ON INVERTEBRATE DRIFT IN ARCTIC STREAMS Gislason, Gisli Mar; Jonasson, Aron Dalin	HABITAT AND ECOLOGICAL RESPONSE OF STREAMS TO RECURRENT ATYPICAL SUMMER FLOODING IN GLACIER BAY, ALASKA. Eagle, Lawrence; Klaar, Megan; Milner, Alexander; Brown, Lee; Carrivick, Jonathan	TRIBUTARY JUNCTION, WHAT'S YOUR FUNCTION? TESTING HYPOTHESES REGARDING THREE MECHANISTIC RESPONSES IN BENTHIC COMMUNITY STRUCTURE AT TRIBUTARY JUNCTIONS Tavernini, David; Richardson, John	METABARCODING AND BIODIVERSITY IN STREAMS: USING MULTIPLE TOOLS TO ASSESS AQUATIC ECOSYSTEMS Watts, Alison; Thomas, Kelley; Thomas, Devin	INFECTION OF INVASIVE RUSTY CRAYFISH WITH NATIVE PARASITES IN THE GREAT LAKES REGION Reisinger, Lindsey; Collins, Erin; Glon, Mael; Mahon, Andrew	11:00 AM - 11:15 AM
PHARMACEUTICALS IMPACT BIOGEOCHEMICAL PROCESSES AND ALGAL COMMUNITY COMPOSITION IN ARTIFICIAL STREAMS Robson, Stephanie; Rosi, Emma; Grace, Michael	UNDERSTANDING THE RESPONSE OF GREAT LAKES ICE COVERAGE TO CLIMATE CHANGE USING A HIERARCHICAL THRESHOLD MODEL Nummer, Stephanie; Amidon, Zachary; Qian, Song	USE OF STRUCTURE-FROM-MOTION PHOTOGRAMMETRY TO EVALUATE FLUVIAL SUBSTRATES Danhoff, Brian; Huckins, Casey	EFFECTS OF FARMING SYSTEM ON AQUATIC INSECT COMMUNITIES IN THE PADDY FIELDS OF TAIWAN Chiu, Ming-Chih; Koh, Chao-Nien; Lu, Yung-Jen; Lin, Hsing-Juh	MONITORING OF MICROBIAL COMMUNITIES AT A HIGH ELEVATION STREAM IMPAIRED BY CHRONIC METALS CONTAMINATION Wolff, Brian; Clements, William; Hall, Ed	EVALUATING EARLY DETECTION MONITORING PROTOCOLS OF NEW ZEALAND MUDSNAILS USING QUALITATIVE SURVEYS Stanton, Samantha; Herbst, Seth; Keiper, William; Hayes, Daniel	11:15 AM - 11:30 AM
THE EFFECTS OF LAND USE ON METABOLISM, NITRATE ASSIMILATION, AND DENITRIFICATION IN NEW ENGLAND STREAMS Bolster, Daniel; Wollheim, Wilfred	MODELING CLIMATE-DRIVEN SHIFTS IN ADULT EMERGENCE BY AN ARCTIC CHIRONOMID COMMUNITY: POTENTIAL IMPACTS ON TUNDRA INSECTIVORES Butler, Malcolm; McEwen, Daniel; Lackmann, Alec	MACROINVERTEBRATE COMMUNITY RESPONSE TO FLOW IN TWO HEADWATER STREAMS OF COSTA RICA Hernandez Abrams, Darixa; Connelly, Scott; Wenger, Seth; Freeman, Mary	DO FRESHWATER MUSSELS INFLUENCE THE ABUNDANCE OF MACROINVERTEBRATE FUNCTIONAL FEEDING GROUPS? Popejoy, Traci; Hopper, Garrett; Vaughn, Caryn; Gido, Keith	USE OF METABARCODING OF ENVIRONMENTAL DNA SAMPLES TO ASSESS FRESHWATER MUSSEL POPULATION RESTORATION EFFORTS IN THE CLINCH RIVER Klymus, Katy; Richter, Catherine; Thompson, Nathan; Jones, Jess	EFFECTS OF INVASIVE MACROPHYTES ON LITTORAL PRIMARY PRODUCERS IN NORTH-TEMPERATE LAKES Van Goethem, Ryan; Marcarelli, Amy; Huckins, Casey	11:30 AM - 11:45 AM
STREAM NITROGEN FLUXES UNDER VARIABLE NUTRIENT LOADING Madinger, Hilary; Hall, Robert	RECONCILING THE TEMPERATURE DEPENDENCE OF MACROINVERTEBRATE PRODUCTION ACROSS A NATURAL STREAM TEMPERATURE GRADIENT Junker, James; Cross, Wyatt; Benstead, Jonathan; Hood, James; Huryn, Alexander; Gislason, Gisli Mar; Nelson, Daniel; Olafsson, Jon S	USING NEON OBSERVATORY DATA TO ASSESS THE EFFECTS OF HURRICANE DISTURBANCE ON PUERTO RICO HEADWATER STREAM COMMUNITIES Parker, Stephanie; Jensen, Brandon; Viggiano, Maria	FUNCTIONAL DIVERSITY OF AQUATIC MACROINVERTEBRATES ALONG A STREAM-SIZE GRADIENT IN THE COLORADO ROCKIES Lafferty, M Holliday	USING OCCUPANCY MODELING TO COMPARE TRADITIONAL VERSUS DNA METABARCODING METHODS FOR CHARACTERIZING ZOOPLANKTON BIODIVERSITY IN LAKE SUPERIOR Meredith, Christy; Hoffman, Joel; Trebitz, Anett; Pilgrim, Erik; Martinson, John; Okum, Sara	POPULATION DYNAMICS OF NEW ZEALAND MUD SNAILS IN A NORTHERN MICHIGAN STREAM Luttenton, Mark; Wegner, Justin	11:45 AM - 12:00 PM
DECADAL TRENDS AND DRIVERS OF NITROGEN CONCENTRATIONS IN GRASSLAND STREAMS Guinnip, James; Dodds, Walter K.	THE NECESSITY OF HIGH QUALITY HABITAT WHEN YOU'RE LIVING ON THE EDGE: A CASE STUDY OF THE HUDSONIAN EMERALD Voss, Kristofer; Loewy, Katrina	PREDICTING SPECIES PERSISTENCE ACROSS TEMPORAL AND SPATIAL SCALES OF DISTURBANCE: INTERANNUAL VARIABILITY IN TROPICAL MONTANE STREAM INSECT COMMUNITIES Larson, Erin; Encalada, Andrea C.; Poff, LeRoy; Atkinson, Carla L.; Flecker, Alexander	DYNAMICS OF MACROINVERTEBRATE DRIFT IN STREAM NETWORKS Justus, Savannah; Cathey, Sara; Brown, Bryan	USING EDNA TO ELUCIDATE DISTRIBUTION OF FISH SPECIES IN A COMPLEX RIVER SYSTEM Hatzenbuehler, Chelsea; Chadderton, W. Lindsay; Hoffman, Joel; Okum, Sara; Olds, Brett; Pilgrim, Erik; Renshaw, Mark; Trebitz, Anett; Tucker, Andrew	THE NEW ZEALAND MUDSNAIL: STATE OF THE SCIENCE AND CURRENT STUDIES OF AN EARLY INVASION IN A MICHIGAN RIVER Geist, Jeremy; Luttenton, Mark; Wegner, Justin; Tiegs, Scott	12:00 PM - 12:15 PM
SEASON OR LAND-USE? EXPLORING THE DRIVERS OF WATER QUALITY IN AN AGRO-URBAN WATERSHED OF CENTRAL IOWA Levi, Peter S.; Anderson, Emily D.; VanDooren, Katie; Bowman, Angela L.; Burgin, Amy J.; Davis, Caroline A.; Jones, Christopher S.; Loecke, Terrance D.	IS A WIDESPREAD, COMMON SPECIES ALREADY LIVING NEAR ITS UPPER THERMAL TOLERANCE LIMIT IN ITS NATURAL ENVIRONMENT? Abdelrahman, Hisham; Haney, Austin; Atkinson, Carla; Stoeckel, James	LINKING FISH AND MACROINVERTEBRATE ASSEMBLAGES TO RIFFLE DEVELOPMENT FOLLOWING DAM REMOVAL: MID-TERM RESPONSES Symonds, Daniel; Sullivan, S. Mazeika P.	NEOTROPICAL CLOUD-FOREST STREAMS: MACROINVERTEBRATE REGIME SHIFTS, FOOD WEBS, AND CONSEQUENCES OF NON-NATIVE RAINBOW TROUT Snyder, Eric; Harris, Anna; Wessels, Dana	UNDERSTANDING VARIATION ASSOCIATED WITH BIOINFORMATICS PROCESSING OF ENVIRONMENTAL GENOMIC DATA Stein, Eric; Steele, Joshua; Chariton, Anthony; Greenfield, Paul; Thompson, Luke; Martinson, John; Baird, Donald; Pilgrim, Erik; Hajibabaei, Mehrdad	ANALYZING EURASIAN WATERMILFOIL EXTENT AND TREATMENT EFFICACY USING UNMANNED AERIAL SYSTEM (UAS) MULTISPECTRAL IMAGERY Brooks, Colin; Marcarelli, Amy; Grimm, Amanda; Dobson, Richard; Huckins, Casey; Van Goethem, Ryan; Smith, Robert; Clymer, Mark; Marion, Nicholas	12:15 PM - 12:30 PM



Tuesday — Afternoon Oral

MAY 22, 2018

	310A	310B	320	321	330A
SESSION	S01 Dams, Big Data, and Meta-analyses <i>Moderator: Jonathan Tonkin</i>	S22 Transcending Aquatic-terrestrial Boundaries: Ecology, Conservation and Management of Temporary Freshwaters <i>Moderator: Dan Allen</i>	C28 Land-Water Interfaces <i>Moderator: Peter Levi</i>	S16 Ecological Stoichiometry as a Bridge Across Disciplinary Boundaries in Freshwater Science <i>Moderator: K MacNeill</i>	S23 The Evolving Science Supporting Biological Assessments and Criteria <i>Moderator: Susan Jackson</i>
2:00 PM - 2:15 PM	HYDROPEAKING DAMS FACILITATE ECOLOGICAL DOMINANCE Abernethy, Erin; Muehlbauer, Jeffrey; Kennedy, Ted; Lytle, David; Van Driesche, Richard	LAND USE, RESTORATION, AND HYDROLOGICAL CONNECTIVITY OF TEMPORARY WETLANDS AND STREAMS INFLUENCE DISSOLVED ORGANIC MATTER IN DOWNSTREAM PERENNIAL WATERS Palmer, Margaret; Hosen, Jacob; Armstrong, Alec	DO STREAM POLLUTION STATES INFLUENCE LINKAGES BETWEEN BENTHIC INSECTS AND RIPARIAN PREDATORS? Burdon, Francis	LAND USE RESPONSES AND SEASONAL ADAPTATION OF WHOLE-STREAM METABOLISM AND NITRATE UPTAKE REVEALED BY HIGH-FREQUENCY, IN-SITU SENSORS Bowden, William Breck; Sleeper, Ryan; Vaughan, Mathew; Schroth, Andrew	REGIONAL ASSESSMENTS OF AQUATIC INTACTNESS: SENSITIVITY OF INFERENCES TO DIFFERENCES IN DATA SOURCES, SCORING, AND AGGREGATION Miller, Scott; Perry, Christian; Hawkins, Charles
2:15 PM - 2:30 PM	LONGITUDINAL DRIFT RECOVERY PATTERNS DOWNSTREAM OF LARGE DAMS Muehlbauer, Jeffrey; Kennedy, Ted	THREE-DIMENSIONAL CONNECTIVITY OF RUNOFF SOURCE AREAS DRIVE STREAM HYDRO-BIOGEOCHEMICAL SIGNALS ACROSS AN EPHEMERAL-TO-PERENNIAL DRAINAGE NETWORK Zimmer, Margaret; McGlynn, Brian	EFFECTS OF CYANOBACTERIAL ALGAE BLOOMS ON SHORE FOOD WEBS OF LAKE ERIE AND THE MAUMEE RIVER McCluney, Kevin; Kolonay, Neal; Obrock, Kaleigh; Fisher, Andrea; Gustafson, Greg; Martin, Amanda; Metzner, Gabrielle; Root, Karen; Schoen, Jacob; Seidel, Melissa; Turner, Tyler; Woloschuk, John; McKay, Robert M.; Davis, Timothy W.; Marshall, Melanie	THE INFLUENCE OF BIOLOGICAL NITROGEN TRANSFORMATIONS ON LAKE PRODUCTIVITY: AN ANALYSIS USING LARGE-SCALE ECOLOGICAL STOICHIOMETRY Scott, Thad; McCarthy, Mark; Paerl, Hans	KEY CHALLENGES AND OPPORTUNITIES IN INCORPORATING ENVIRONMENTAL FLOWS INTO BIOASSESSMENT Lane, Belize; Stein, Eric; Yarnell, Sarah; Zimmerman, Julie; Lusardi, Robert
2:30 PM - 2:45 PM	INVERTEBRATE AND DIATOM COMMUNITY RESPONSES TO RIVER REGULATION BY WATER SUPPLY RESERVOIRS – A LARGE-SCALE MULTI-YEAR STUDY Krajenbrink, Henk; Acreman, Mike; Hannah, David; Laizé, Cédric; Wood, Paul	DISSOLVED INORGANIC NITROGEN EXPORTS DURING FLOODS FROM AN INTERMITTENT DESERT STREAM Handler, Amalia; Grimm, Nancy	REGIONAL DIFFERENCES IN STREAM NETWORK GEOMETRY MEDIATE THE SPATIAL PATTERNING AND EXTENT OF AQUATIC-DE-RIVED RESOURCES IN TERRESTRIAL ENVIRONMENTS Kopp, Darin; Allen, Daniel	LONG-TERM LAKE RECORDS REVEAL DECOUPLING OF NITROGEN AND PHOSPHORUS CYCLES IN RESPONSE TO AN EXTREME RAINFALL EVENT Corman, Jessica; Loken, Luke; Oliver, Samantha; Collins, Sarah; Dugan, Hilary; Stanley, Emily	KNOWLEDGE EXCHANGE AND SOCIAL CAPITAL FOR FRESHWATER ECOSYSTEM ASSESSMENTS Kuehne, Lauren; Olden, Julian
2:45 PM - 3:00 PM	ANTHROPOGENIC PRESSURES IN A LARGE TROPICAL RIVER: THE LOWER GRIJALVA IN SOUTHERN MÉXICO Castillo, Mercedes; Lázaro-Vázquez, Alejandra; Jarquín-Sánchez, Aarón; Carrillo, Laura; Capps, Krista	CARBON CYCLING IN A BOREAL TEMPORARY STREAM: INSIGHT FROM AN EXPERIMENTAL HYDROLOGICAL MANIPULATION Gómez-Gener, Lluís; Lupon, Anna; Leach, Jason; Brekenfeld, Nicolai; Krause, Stefan; Laudon, Hjalmar; Sponseller, Ryan	RADIATION INCIDENCE IS NO COINCIDENCE: MODELING TERRESTRIAL CONTROL ON RIVER LIGHT ENVIRONMENTS Savoy, Philip; Heffernan, Jim; Bernhardt, Emily; Kirk, Lily; Cohen, Matthew	NITROGEN TO PHOSPHORUS RATIO AS A DRIVER OF ARSENIC RETENTION MacNeill, Keeley; Collins, Sarah; Encalada, Andrea C.; Guasch, Helena; McBride, Murray; Rosi, Emma; Thomas, Steven; Flecker, Alexander	THE LAW AND POLICY IMPACTS OF ADVANCES IN ASSESSMENT METHODS FOR AQUATIC ECOSYSTEM INTEGRITY: CAN THE LAW CATCH UP TO THE SCIENCE? Adler, Robert
3:00 PM - 3:15 PM	SMALL DAMS CAN HAVE LARGE THERMAL EFFECTS WITH NEGATIVE IMPLICATIONS FOR COLDWATER SPECIES Zaidel, Peter; Roy, Allison; Nislow, Keith; Letcher, Ben; Houle, Kristopher; Lambert, Beth; Smith, Christopher	FLOW INTERMITTENCY AND BIODIVERSITY OF AN ALPINE FLUVIAL NETWORK: VAL ROSEG, SWITZERLAND Paillex, Amael; Siebers, Andre; Ebi, Christian; Mesman, Jorrit; Misteli, Benjamin; Robinson, Christopher	EXPOSURE-DEPENDENT TRANSFER OF METALS ACROSS INSECT METAMORPHOSIS DECOUPLES RISK IN LINKED AQUATIC-TERRESTRIAL FOOD WEBS Kraus, Johanna; Wanty, Richard; Schmidt, Travis S.; Walters, David; Wolf, Ruth	THE EFFECTS OF NUTRIENT LIMITATION ON THE TEMPORAL COUPLING OF NUTRIENT UPTAKE Chamberlin, Catherine; Bernhardt, Emily; Rosi, Emma; Heffernan, Jim	THE LAW AND POLICY IMPACTS OF ADVANCES IN ASSESSMENT METHODS FOR AQUATIC ECOSYSTEM INTEGRITY: CAN THE LAW CATCH UP TO THE SCIENCE? Adler, Robert
3:15 PM - 3:30 PM	RIVERS IN FLUX: HYDROPSYCHE (TRICHOPTERA: HYDROPSYCHIDAE) DISTRIBUTION ALONG A LARGE RIVER DISCONTINUUM Metcalfe, Anya; Kennedy, Ted; Muehlbauer, Jeffrey; Marks, Jane; Dibble, Kimberly; Yackulic, Charles		DO ALGAE CARE ABOUT LIGHT AND NUTRIENTS? Johnson, Sherri; Argerich, Alba; Ashkenas, Linda	INTERACTIVE EFFECTS OF TEMPERATURE AND NUTRIENTS ON STREAM BIOFILM STRUCTURE AND FUNCTION Collis, Lyndsie; Benstead, Jonathan P.; Cross, Wyatt; Furey, Paula; Gislason, Gisli Mar; Huryn, Alexander D.; Johnson, Philip; Olafsson, Jon S.; Sander, Delorianne; Welter, Jill; Hood, James	

330B	410A	410B	420A	420B	430B	SESSION
C10 Biogeochemistry <i>Moderator: Amber Ulseth</i>	C20 Climate Change <i>Moderator: Avril Horne</i>	C16 Restoration Ecology <i>Moderator: Sarah Roley</i>	C11 Community Ecology <i>Moderator: Garrett Hopper</i>	S18 Aquatic Biodiversity Surveillance Using Environmental Genomics <i>Moderator: Aaron Maloy</i>	C09 Wetland Ecology <i>Moderator: Katherine O'Reilly</i>	2:00 PM - 2:15 PM
PROCESSES AND ENVIRONMENTAL CONDITIONS INFLUENCING THE STABLE ISOTOPE FRACTIONATION FACTOR (ALPHA) OF DISSOLVED OXYGEN DURING RESPIRATION Tromboni, Flavia ; Dodds, Walter K.; Chandra, Sudeep; Poulson, Simon R.; Schechner, Anne	ECOLOGICAL RELEVANCE OF CLIMATE-INDUCED TRENDS IN STREAMFLOW ATTRIBUTES AT A CONTINENTAL SCALE Carlisle, Daren ; Wolock, David; McCabe, Greg	THE APPLICATION OF WEB-BASED DECISION SUPPORT TOOLS AND THE VALUE OF LOCAL INFORMATION IN PRIORITIZING BARRIER REMOVAL IN NORTHWEST LOWER MICHIGAN, USA Lin, Hsien-Yung	AQUATIC INVERTEBRATE COMMUNITIES VARY BETWEEN STREAMBED HABITATS WITH VARIABLE CONNECTION TO THE HYPORHEIC ZONE IN AN OZARK GRAVEL-BED STREAM Dorff, Nathan ; Finn, Debra	QIIME: A GOOD BIOINFORMATICS PIPELINE FOR ILLUMINA NEXTSEQ AMPLIFICATION SEQUENCING DATA PROCESSING? Lor, Yer ; Bockrath, Katie; McCalla, S.Grace; Amberg, Jon	IMPACTS OF SEDIMENT DREDGING ON PHOSPHORUS DYNAMICS OF A RESTORED RIPARIAN WETLAND Oldenburg, Kim ; Steinman, Alan	2:15 PM - 2:30 PM
SCALING GAS-EXCHANGE FROM LOW TO HIGH-ENERGY STREAMS Ulseth, Amber ; Hall, Robert; Madinger, Hilary; Battin, Tom	STREAM COMMUNITIES EXCEED ECOLOGICAL THRESHOLDS DUE TO DROUGHT INTENSIFICATION: EVIDENCE FROM A LARGE SCALE MESOCOSM EXPERIMENT Khamis, Kieran ; Aspin, Thomas; Milner, Alexander; Trimmer, Mark; Woodward, Guy; Ledger, Mark	BEAVER HABITAT SELECTION AND IMPACTS ON SEDIMENT AND NUTRIENT CONCENTRATIONS IN A SOUTHWESTERN OHIO STREAM Grudzinski, Bartosz ; Jojola, Marvin; Kist, David	TEMPORAL VARIATION IN SPATIAL STRUCTURING DURING MACROINVERTEBRATE COMMUNITY ASSEMBLY IN FLOODPLAIN PONDS: A FIELD EXPERIMENT Chanut, Pierre ; Burdon, Francis; Datry, Thibault; Robinson, Christopher	MONITORING AQUATIC INVASIVE SPECIES THROUGH MULTI-MARKER METABARCODING: HOW DOES ENVIRONMENTAL DNA COMPARE TO ICHTHYOPLANKTON TOW SAMPLING? Bockrath, Katie ; Tuttle-Lau, Maren; McCalla, S.Grace; Lor, Yer	SELF-ORGANIZED MICROTOPOGRAPHY IN BLACK ASH WETLANDS IS DRIVEN BY HYDROLOGY Diamond, Jake ; Stovall, Atticus; McLaughlin, Daniel; Slesak, Rob	2:30 PM - 2:45 PM
LONG-TERM STREAM RESTORATION EFFECTS ON ECOSYSTEM FUNCTIONS IN COASTAL PLAIN STREAMS. Bickley, Samuel ; Isenberg, Daniel; Griffiths, Natalie; Helms, Brian; Feminella, Jack W.	ARCTIC RIVER ICINGS: SENSORS OF RAPIDLY CHANGING CLIMATE, HYDROLOGY, AND RIVER ECOSYSTEM CONDITIONS? Zarnetske, Jay ; Pavelsky, Tamlin	GUIDING DESERT RIVER RESTORATION: MONITORING RESULTS FROM AN EXPERIMENTAL HABITAT RESTORATION PROJECT ON THE SAN RAFAEL RIVER, UTAH Laub, Brian ; Jimenez, Justin; Budy, Phaedra	DO TROPHIC SUBSIDIES AND HABITAT PROVIDED BY MUSSELS INFLUENCE THE OCCURRENCE OF FISHES? Hopper, Garrett ; Popejoy, Traci; Gido, Keith; Vaughn, Caryn C.	HOW GENE MARKER AND PCR PRIMER CHOICE INFLUENCE DNA METABARCODING OF AQUATIC COMMUNITIES Pilgrim, Erik ; Banerji, Aabir; Darling, John; Hatzenbuehler, Chelsea; Hoffman, Joel; Maloy, Aaron P.; Martinson, John; Mitchell, Richard; Meredith, Christy; Okum, Sara; Trebitz, Anett; Yuan, Lester	CHARACTERIZING VARIABILITY AND DRIVERS OF WETLAND STRUCTURE AT THE GREAT DISMAL SWAMP Ludwig, Raymond ; McLaughlin, Daniel	2:45 PM - 3:00 PM
THE IMPACT OF SUBSTRATE SIZE AND OTHER DRIVERS ON NUTRIENT UPTAKE ACROSS A FIVE-MONTH BIOFILM COLONIZATION SEQUENCE IN EXPERIMENTAL STREAMS AT ND-LEEF Speir, Shannon ; Tank, Jennifer L.; Shogren, Arian; Dee, Martha M.; Trentman, Matt T.	MULTISPECIES FRESHWATER CONSERVATION PLANNING IN RESPONSE TO CLIMATE CHANGE IN THE SOUTHEASTERN UNITED STATES VanCompernelle, Michelle ; Ficklin, Darren; Knouft, Jason	EVALUATING THE POTENTIAL FOR PRE-ZYGOTIC ISOLATION AND HYBRIDIZATION BETWEEN LANDLOCKED AND ANADROMOUS FISH POPULATIONS FOLLOWING SECONDARY CONTACT Littrell, Katherine	THE COLLECTIVE EFFECTS OF WASTEWATER EFFLUENT AND INDIVIDUAL EFFECTS OF CAFFEINE ON STREAM BIOFILMS Marshall, Melanie ; McCluney, Kevin	COMPARISON OF ELECTROFISHING AND ENVIRONMENTAL DNA DETECTION METHODOLOGIES IN SMALL COLD WATER STREAMS Maloy, Aaron P. ; Rees, Christopher B.; Quinlan, Henry R.; Brouter, Mark J.; Bartron, Meredith L.	HABITAT STRUCTURE, HYDROPERIOD, AND TROPHIC COMPLEXITY OF PLAYA WETLANDS: A MESOCOSM EXPERIMENT O'Neill, Brian ; Thorp, James	3:00 PM - 3:15 PM
WITHIN VERSUS AMONG RIVER VARIATION IN GAS EXCHANGE RATE Hall, Robert ; Stets, Edward; Appling, Alison; Bernhardt, Emily; Griffiths, Natalie; Harvey, Jud; Yackulic, Charles	SUNSET ON STATIONARITY: THE IMPLICATIONS OF CLIMATE CHANGE AND VARIABILITY AND ON THE ASSESSMENT OF ENVIRONMENTAL FLOW REGIMES Horne, Avril ; Nathan, Rory; Bond, Nick; Poff, LeRoy; Webb, J. Angus; Wang, Jun	THE ROLE OF FOREST REMNANTS IN MAINTAINING STREAM ECOSYSTEM INTEGRITY: THE PENETRANCE EFFECT. Feijó de Lima, Rafael ; Thomas, Steven; F. Silva-Júnior, Eduardo; Lisboa, Leonardo Kleba; Moulton, Timothy P.; Mcleay, Scott; Zandoná, Eugenia	IMPACTS OF A DAM REGULATED FLOW REGIME ON PRIMARY AND SECONDARY PRODUCTIVITY IN THE UPPER EEL RIVER, CALIFORNIA Jansen, Lara ; O'Dowd, Alison	FRESHWATER QUALITY ASSESSMENT USING DIATOM DNA METABARCODING: PROGRESS AND PROSPECTS IN THE FRAME OF FRENCH RIVERS MONITORING NETWORKS Vasselon, Valentin ; Rivera, Sinziana; Domaizon, Isabelle; Rimet, Frédéric; Bouchez, Agnès	FACTORS INFLUENCING AMPHIBIAN COMMUNITY ASSEMBLAGE IN DUNE WETLANDS ON THE LAKE MICHIGAN COAST Journey, Alex	3:15 PM - 3:30 PM
MORE THAN ONE WAY TO LIMIT ALGAE: TRACE METAL-NUTRIENT COLIMITATION OF ALGAL PRODUCTION Fitzgibbon, Andrea ; Costello, David	HYDROCLIM: A CONTINENTAL-SCALE DATABASE OF CONTEMPORARY AND FUTURE STREAMFLOW AND WATER TEMPERATURE ESTIMATES FOR AQUATIC BIODIVERSITY STUDIES Knouft, Jason ; Ficklin, Darren; Bart, Henry; Rios, Nelson	COLLECTIVE IMPACT IN THE BI-NATIONAL ST. CLAIR-DETROIT RIVER SYSTEM Selzer, Michelle ; Bohling, Mary		MORPHOLOGICAL AND DNA METHODOLOGIES IN ASSESSING BENTHIC MACROINVERTEBRATE COMMUNITIES Mueller, Sara ; Aunins, Aaron; Stauffer, Jay		

Wednesday — Early Morning Oral

MAY 23, 2018

	310A	310B	320	321	330A
SESSION	C08 Urban Ecology <i>Moderator: Carla Lee Atkinson</i>	S25 Effects of Multi-stressors in Stream Ecology Across Regional Landscapes and Mesocosm Studies <i>Moderator: Ian Waite</i>	C02 Fish and Other Aquatic Vertebrates <i>Moderator: Keith Gido</i>	S30 Environmental and Ecological Roles of Dissolved Organic Matter in Freshwater Ecosystem <i>Moderator: Helong Jiang</i>	S07 Landscape Influences on Freshwater Habitats and Biological Assemblages <i>Moderator: Lizhu Wang</i>
9:00 AM - 9:15 AM	AQUATIC MACRO-INVERTEBRATES AS BIOINDICATORS OF WATER QUALITY IN RURAL AND URBAN STREAMS AFFECTED BY CHANNELIZATION. Orengo Sanchez, Ismael	BENTHIC MICROBIAL COMMUNITIES AS INDICATORS OF ECOLOGICAL DISRUPTION BY PHARMACEUTICALS AND PERSONAL CARE PRODUCTS Kelly, John ; Rosi, Emma	PLETHODONTID STREAM SALAMANDER OCCUPANCY, ABUNDANCE, AND DIET ALONG A CONDUCTIVITY GRADIENT Hutton, Jacob	BIOAVAILABILITY OF DISSOLVED ORGANIC MATTER IN A CYANOBACTERIAL BLOOMING LAKE AND IMPACTS ON EMERGING CONTAMINANT BEHAVIOUR Jiang, Helong ; Bai, Leilei	LANDSCAPE AND REACH SCALE INFLUENCES ON RESIDENT CUTTHROAT TROUT AND DOLLY VARDEN POPULATIONS IN SOUTHEAST ALASKA Steel, E. Ashley ; Jacobson, Sheila; Tucker, Emil; Bryant, M. Buck; McDonnell, John
9:15 AM - 9:30 AM	DYNAMICS OF WATER QUALITY IN AN EFFLUENT-DOMINATED REACH OF THE SANTA CRUZ RIVER, AZ Hamdhani, Hamdhani ; Epehimer, Drew; Bogan, Michael	IDENTIFYING THE JOINT EFFECTS OF FLOW VARIABILITY AND URBAN WASTEWATER ON MACROINVERTEBRATE COMMUNITIES: A TAXONOMIC AND FUNCTIONAL APPROACH Mor, Jordi-René ; Dolédec, Sylvain; Pereda, Olatz; Acuña, Vicens; Elosegi, Arturo; Mandaric, Ladislav; Sabater, Sergi; Muñoz, Isabel	QUANTIFYING SEASONAL HOME RANGES OF CAPTIVE-REARED, RECENTLY-RELEASED JUVENILE BLANDING'S TURTLES (EMYDOIDEA BLANDINGII) Cann, Armand ; Muñoz, Andrés; Harden, Leigh Anne; Milanovich, Joseph	EXPLORING SPATIO-TEMPORAL VARIATION IN STREAM DISSOLVED ORGANIC MATTER TO BETTER UNDERSTAND HYDROECOLOGICAL REGIMES IN A MONTANE, URBANIZING WATERSHED D'Andrilli, Juliana ; Storb, Meryl; Payn, Robert	ENVIRONMENTAL AND BIOLOGICAL IMPACTS TO CRAYFISH POPULATIONS IN IMPOUNDED AND UNIMPOUNDED STREAMS IN ALABAMA Barnett, Zanethia ; Adams, Susan; Ochs, Clifford
9:30 AM - 9:45 AM	CHARACTERIZING THE QUALITY OF GOLF COURSE LENTIC ECOSYSTEMS Milanoivch, Joseph ; Piacente, Jennifer; Muñoz, Andrés; Lentini, Isabella; Cann, Armand; Berg, Martin B.	NUTRIENT ADDITIONS MODIFY EFFECTS OF TEMPERATURE ON PRIMARY PRODUCER COMMUNITIES WITH IMPLICATIONS FOR ENERGY AND NUTRIENT FLUX THROUGH FOOD WEBS Henderson, Kate ; Cross, Wyatt; Benstead, Jonathan; Gislason, Gisli Mar; Hood, James; Huryn, Alexander D; Olafsson, Jon S; Welter, Jill	RESPONSE OF ARID RIVER FISHES TO CLIMATE, HYDROLOGY AND WILDFIRE Gido, Keith ; Propst, David; Whitney, James; Hedden, Skyler; Turner, Thomas; Pilger, Tyler	CONCENTRATION AND COMPOSITION OF DISSOLVED ORGANIC MATTER IN TEMPORARY DEPRESSIONAL WETLANDS ON THE DELMARVA PENINSULA VARY BETWEEN WETLANDS AND SEASONS Armstrong, Alec ; Palmer, Margaret; Gonsior, Michael	LANDSCAPE APPROACHES TO UNDERSTANDING INVASIONS IN INLAND LAKES Alofs, Karen
9:45 AM - 10:00 AM	RESTORING AQUATIC ECOSYSTEMS IN ARID ENVIRONMENTS WITH TREATED WASTEWATER: WISHFUL THINKING OR PRACTICAL REALITY? Epehimer, Drew ; Hamdhani, Hamdhani; Bogan, Michael	A COMPARISON OF ALGAE, INVERTEBRATE AND FISH MULTI-STRESSOR MODELS ACROSS MULTIPLE DISTURBANCE GRADIENTS Waite, Ian ; Munn, Mark; Meador, Mike; VanMetre, Pete; Moran, Patrick; Nowell, Lisa	A LOW-WATER CROSSING IMPACTS LONGITUDINAL MOVEMENTS OF KNOBFIN SCULPIN (<i>COTTUS IMMACULATUS</i>) AND NORTHERN HOG SUCKER (<i>HYPERENTLIUM NIGRICANS</i>) IN AN OZARK RIVER Williams, Jeff ; Dodd, Hope; Finn, Debra	ACTIVE TRANSFORMATION OF NATURAL DISSOLVED ORGANIC MATTER REGULATED BY SIZE AND COMPOSITION Xu, Huacheng ; Guo, Laodong	RELATIONSHIPS BETWEEN FOREST COVER AND FISH DIVERSITY IN THE AMAZON RIVER Arantes, Caroline ; Winemiller, Kirk; Petrere, Miguel; Castello, Leandro; Hess, Laura; Freitas, Carlos
10:00 AM - 10:15 AM	ELECTRIC FIELDS: WHAT ARE THEY BAD FOR? Miliša, Marko ; Djikic, Domagoj; Mandic, Tvrtko; Ivkovic, Marija	BIODIVERSITY RESPONSES TO MULTIPLE STRESSORS IN THREE EUROPEAN BASINS: BACTERIA, ALGAE, MACROPHYTES, INVERTEBRATES AND FISH Muñoz, Isabel ; De Castro-Catala, Nuria; Bellin, Alberto; Borrego, Carles; Kalogianni, Eleni; Paunovic, Momir; Sabater, Sergi	HOW DO SMALL BARRIERS AND STREAM FLOW INTERACT TO STRUCTURE PARTIALLY MIGRATORY FISH POPULATIONS? Kelson, Suzanne ; Miller, Michael; Carlson, Stephanie	THE FATE OF TERRESTRIALLY DERIVED DISSOLVED ORGANIC MATTER IN ONE SUB-TROPICAL AND THREE TEMPERATE LAKES OF VARYING TROPHIC STATUS Dempsey, Chris ; Brentrup, Jennifer; Magyan, Sarah; Knoll, Lesley; Williamson, Craig	ASSESSING THE HISTORICAL DISTRIBUTION OF PODOSTEMUM CERATOPHYLLUM MICHX., A FOUNDATION SPECIES OF EASTERN NORTH AMERICA RIVERS Wood, James ; Davis, Destinee; Beaumont, Edward; Canfield, Sam
10:15 AM - 10:30 AM	NUTRIENT DYNAMICS IN SEMIARID CONSTRUCTED STORMWATER WETLANDS Macek, Carolyn ; Hale, Rebecca; Baxter, Colden; Burnham, Morey	DIRECT AND INDIRECT EFFECTS OF MULTIPLE STRESSORS ON STREAM FAUNA ACROSS WATERSHED, REACH AND SITE SCALES. Villeneuve, Bertrand ; Piffady, Jeremy; Valette, Laurent; Souchon, Yves; Usseglio-Polatera, Philippe	THE IMPORTANCE OF FIELD ASSESSMENTS IN MODELING FISH PASSAGE OF BARRIERS IN GREAT LAKES TRIBUTARIES Rodstrom, John ; Milt, Austin; Moody, Allison; Diebel, Matt; Hamann, Ellen; McIntyre, Peter B.		

330B	410A	410B	420A	420B	430B	SESSION
C01 Algae <i>Moderator: Paula Furey</i>	C20 Climate Change <i>Moderator: Erin Hotchkiss</i>	C13 Ecotoxicology <i>Moderator: Gale Beaubien</i>	C18 Biodiversity <i>Moderator: Tiffany Schriever</i>	S02 The Great Lakes Restoration Initiative: Interdisciplinary Approaches to Assessing Beneficial Use Impairments in Areas of Concern <i>Moderator: Barry Baldigo</i>	C09 Wetland Ecology <i>Moderator: Adam Yates</i>	
ASYNCHRONOUS CHANGES IN TROPHIC STATUS OF A LAKE AND ITS WATERSHED INFERRED FROM SEDIMENTARY DIATOMS OF DIFFERENT HABITATS Liu, Bo	PREDICTED MORPHOLOGIC RESPONSES TO CLIMATE-INDUCED HYDROLOGIC CHANGES VARY AMONG POPULATIONS OF FRESHWATER FISHES Andres, Kara; Chien, Huicheng; Knouft, Jason	COMPARING RELATIVE SENSITIVITIES OF AQUATIC INSECTS TO TRACE METAL EXPOSURE IN FIELD STUDIES AND SHORT-TERM STREAM MESOCOSM EXPERIMENTS Iwasaki, Yuichi; Schmidt, Travis S.; Clements, William	ALONG FOR THE RIDE: STREAM FISH PARASITES ON THE RIVER CONTINUUM Bauer, Eric; Helms, Brian; Feminella, Jack	MACROINVERTEBRATE ASSEMBLAGE RESPONSE TO CONTAMINATED SEDIMENT REMEDIATION IN A LACUSTUARY SYSTEM Fritz, Ken; Lazorchak, Jim; Mills, Marc; Thoeny, William	EXAMINING THE RELATIONSHIP BETWEEN MACROINVERTEBRATE COMMUNITY STRUCTURE AND HABITAT CONDITIONS IN GREAT LAKES INTERDUNAL WETLANDS Frazier, Christopher; Schriever, Tiffany	9:00 AM - 9:15 AM
A STOCHASTIC MODEL OF EPILITHIC ALGAL SUCCESSION AND PATCH DYNAMICS IN STREAMS DeNicola, Dean; McNair, James; Suh, Jiyeon	ALPINE STREAMS FED BY SUBTERRANEAN ICE AS POTENTIAL CLIMATE REFUGIA FOR TEMPERATURE-SENSITIVE TAXA Finn, Debra; Tronstad, Lusha; Hotaling, Scott; Giersch, J. Joseph; Bixby, Rebecca; Zeglin, Lydia	RESPONSES OF AQUATIC INSECT EMERGENCE TO TILE DRAINS IN THE PRAIRIE POTHOLE Wesner, Jeff; Henry, Brianna; Kerby, Jake	DISTRIBUTION OF HYPORHEIC FAUNA IN TEXAS, USA: HOW DOES LARGE-SCALE GEOLOGY AND FINE-SCALE HYDROLOGY INFLUENCE COMMUNITIES Swink, Aaron; Hutchins, Benjamin; Schwartz, Benjamin	THE WEIGHT OF EVIDENCE APPROACH TO DECISION-MAKING: EVALUATING BENTHOS IMPAIRMENT IN THE DETROIT RIVER AND ST. LAWRENCE RIVER AREAS OF CONCERN MacDougall, Mark; McPhedran, Kerry; Drouillard, Ken	SHALLOW LAKE MANAGEMENT ATTRACTS WATERFOWL IN MINNESOTA DURING FALL MIGRATION Larson, Danelle; Cordts, Steve; Hansel-Welch, Nicole	9:15 AM - 9:30 AM
THIAMINE LIMITATION OF PERIPHYTON IN ADIRONDACK STREAMS Wang, Binbin	DROUGHT INTENSIFICATION TRANSFORMS MULTIPLE ECOSYSTEM PROCESSES Ledger, Mark; Aspin, Thomas; Hart, Kris; Khamis, Kieran; O'Callaghan, Matthew; Trimmer, Mark; Woodward, Guy; Wang, Zining	INCREASED TEMPERATURE INFLUENCED GROWTH AND DEVELOPMENT OF LITHOBATES PIPPIENS TADPOLES EXPOSED TO INVASIVE PLANT LEACHATES AND A TRICLOPYR HERBICIDE Curtis, Amanda; Bidart, M. Gabriela	MOTILITY TRADEOFFS IN SYMBIOSIS: A COLLECTION OF INTERESTING HYPOTHESES McElmurray, Philip; Bell, Spencer; Cathey, Sara; Justus, Savannah; Creed, Robert; Brown, Bryan	INTERACTION OF RIVER FLOWS AND LAKE LEVEL FLUCTUATIONS ON WATER RESIDENCE TIME IN GREAT LAKES RIVERMOUTHS AND IMPLICATIONS FOR REHABILITATION Fitzpatrick, Faith A.; Reneau, Paul; Westenbroek, Stephen; Blount, James	NUTRIENT UPTAKE POTENTIAL BY INVASIVE TYPHA X GLAUCA IN GREAT LAKES COASTAL WETLANDS: A 15-YEAR LONGITUDINAL STUDY. Tuchman, Nancy; Lishawa, Shane	9:30 AM - 9:45 AM
BOTTOM-UP AND TOP-DOWN FACTORS INFLUENCING PERIPHYTON COMMUNITY STRUCTURE ACROSS A STREAM CURRENT VELOCITY GRADIENT Beck, Whitney; Poff, LeRoy	ECO-ENGINEERING DECISION SCALING: A FRAMEWORK FOR INCORPORATING FRESHWATER ECOSYSTEMS IN WATER MANAGEMENT DECISION-MAKING AND CLIMATE RISK ASSESSMENT Graham, Ted; Matthews, John; Poff, LeRoy	ACCUMULATION OF HEAVY METALS IN CORBICULID CLAMS FROM THE MEKONG AND RED RIVER DELTAS (VIETNAM) Bogatov, Viktor	STREAM MACROINVERTEBRATE COMMUNITIES IN THE JAPANESE ALPS IN A CHANGING CLIMATE AND INFLUENCE OF SNOW MONKEYS Milner, Alexander; Docherty, Catherine; Tojo, Koji; Wood, Susie	EFFECTS OF LAKE SEDIMENT STRUCTURE ON HEXAGENIA SPP. NYMPHAL DEVELOPMENT Siersma, Heather; Kashian, Donna	EVIDENCE FOR BIOLOGICAL CONNECTEDNESS: FISH DISPERSAL ALONG INTERMITTENT FLOW PATHS AMONG SEASONAL WETLANDS Smith, Chelsea; Golladay, Stephen	9:45 AM - 10:00 AM
LIGHT AND WAVE EXPOSURE DRIVE LITTORAL BENTHIC PRIMARY PRODUCTION IN LAKE ERIE AND GEORGIAN BAY, LAKE HURON Katona, Leon; Fazekas, Hannah; Brothers, Soren; Sibley, Paul; Vadeboncoeur, Yvonne	EXTREME DROUGHT DRIVES RANGE CONTRACTION OF SALMONID FISHES Carlson, Stephanie; Kelson, Suzanne; Woelfle-Erskine, Cleo; Obedzinski, Mariska; Renger, Allan; Thompson, Sally; Power, Mary	TRACE ELEMENTS SHED IN EXUVIAE VERSUS EXPORTED FROM CONTAMINATED WETLANDS BY EMERGING DRAGONFLIES Fletcher, Dean; Lindell, Angela; Pitt, Danielle; Stankus, Paul; Lindell, Brooke	PRIORITY EFFECTS IN A FRESHWATER CLEANING SYMBIOSIS Brown, Bryan; Krauss, Lauren; Bell, Spencer; Creed, Robert	COMBINING COMMUNITY, TOXICITY, AND SEDIMENT CHEMISTRY ASSESSMENTS FOR BENTHOS EVALUATIONS AT TWO LAKE MICHIGAN AREAS OF CONCERN Scudder Eikenberry, Barbara; Besser, John; Olds, Hayley; Dorman, Rebecca	COMMUNITY CHARACTERISTICS IN EMERGENT MACROPHYTES OF COASTAL LAKE ERIE WETLANDS: DISSOLVED OXYGEN DRIVER Johnson, Jaimie	10:00 AM - 10:15 AM
TEMPERATURE-NUTRIENT INTERACTIONS REGULATE BIOFILM SPECIES COMPOSITION IN NITROGEN-POOR SYSTEMS Furey, Paula; Welter, Jill; Sander, Delorianne; Collis, Lyndsie; Benstead, Jonathan; Cross, Wyatt; Hood, Jim; Huryn, Alexander; Johnson, Philip; Olafsson, Jón; Gislason, Gisli Mar	THERMAL CONDITION OF TWO SANTA MONICA MOUNTAIN TROUT STREAMS IN PERSISTENT DROUGHT Montgomery, Elizabeth	THE EFFECT OF DIFFERENT FISH PREDATORS ON RIPARIAN SPIDER MERCURY CONCENTRATIONS Beaubien, Gale; Olson, Connor; Walters, David; Rush, Scott; Otter, Ryan	NUTRIENT ENRICHMENT TRIGGERS SWITCH IN THE DOMINANT MODE OF TEMPORAL & BETA-DIVERSITY IN FRESHWATER ALGAL COMMUNITIES Cook, Stephen C.; Back, Jeffrey A.; King, Ryan S.	BREAKING BARRIERS: LEGACY PHOSPHORUS MONITORING DURING RESTORATION AND BERM REMOVAL FOR HYDROLOGIC RECONNECTION OF FLOODED AGRICULTURAL FIELDS TO THE WATERSHED Hassett, Michael; Oudsema, Maggie; Oldenborg, Kim; Steinman, Alan	TRADEOFFS AMONG ECOSYSTEM SERVICES AFTER PHRAGMITES AUSTRALIS REMOVAL IN GREAT LAKES COASTAL WETLANDS Kandies, Amanda; Judd, Kristi	10:15 AM - 10:30 AM



Thursday — Early Morning Oral

MAY 24, 2018

	310A	310B	320	321	330A
SESSION	C08 Urban Ecology <i>Moderator: Ryan King</i>	S09 Spatial Aspects of Freshwater Ecology: Understanding, Managing, Predicting <i>Moderator: Mathias Kuemmerlen</i>	S29 Scholarship of Teaching and Learning in Freshwater Science <i>Moderator: Kaleb Heinrich</i>	S04 Expanding Regulatory Frameworks to Include Detrital Responses in Streams <i>Moderator: Sally Entrekin</i>	S07 Landscape Influences on Freshwater Habitats and Biological Assemblages <i>Moderator: Dana Infante</i>
9:00 AM - 9:15 AM	IMPACTS OF URBANIZATION ON RIVERINE RESOURCE SUBSIDIES Jones, Catelyn; Tiegs, Scott	HOW DO LANDSCAPE CONFIGURATIONS INFLUENCE THE SPATIAL DISTRIBUTION OF A HEMI-METABOLOUS AQUATIC INSECT? Streib, Lucas; Heer, Henriette; Kattwinkel, Mira; Ruzika, Stefan; Schäfer, Ralf	FRESHWATER SCIENCE AS A COURSE OPTION FOR NONSCIENCE MAJORS Torres, PJ	DETRITUS AND EUTROPHICATION OF STREAMS Dodds, Walter K.	LANDSCAPE GENETICS REVEALS DIFFERING EFFECTS OF URBANIZATION FOR TWO SYMPATRIC POOL-BREEDING AMPHIBIAN SPECIES Homola, Jared; Loftin, Cynthia; Kinnison, Michael
9:15 AM - 9:30 AM	WATER QUALITY IN WETLANDS ALONG AN URBANIZATION GRADIENT Elser, Stephen; Cook, Elizabeth; Barbosa, Olga; Grimm, Nancy	IDENTIFYING AND APPLYING OPTIMUM ENVIRONMENTAL PREDICTORS IN ACCORDANCE WITH MACRO-INVERTEBRATE SPECIES PREFERENCES Irving, Katherine; Kuemmerlen, Mathias; Jähnig, Sonja C.	ENGAGING METRO DETROIT STUDENTS IN FRESHWATER SCIENCE Boegehold, Anna	NUTRIENT-STIMULATED DETRITAL LOSS RATES FROM LITTERBAGS ARE PREDICTIVE OF LOSSES AT STREAM REACH SCALES Rosemond, Amy D.; Manning, David W.P.; Bumpers, Phillip; Kominoski, John S.; Gulis, Vlad; Benstead, Jonathan P	ENVIRONMENTAL REGULATION OF RIVERINE DRAGONFLY (ODONATA) EMERGENCE FROM WISCONSIN RIVERS Tesar, Danielle; Orlofske, Jessica
9:30 AM - 9:45 AM	TEMPERATURE EFFECTS ON MAYFLY RESPONSES TO ELEVATED CHLORIDE Jackson, John; Funk, David	PATTERNS OF INVERTEBRATE DIVERSITY, BIOMASS, AND FOOD WEB STRUCTURE ACROSS A BROAD GEOGRAPHIC SCALE Nelson, Daniel; Allen, Daniel; Kopp, Darin	ENGAGING STUDENTS IN STORMWATER SCIENCE Wynne, Danielle	FUNCTIONAL STABILITY DESPITE ADVERSE STRUCTURAL EFFECTS – A POTENTIAL HURDLE FOR THE USE OF LEAF LITTER DECOMPOSITION IN BIOMONITORING? Feckler, Alexander; Bundschuh, Rebecca; Kanschak, Marco; Schulz, Ralf; Zubrod, Jochen; Bundschuh, Mirco	ISOLATION OF THE ECOLOGICAL EFFECTS OF AGRICULTURAL LANDUSE AT CATCHMENT AND RIPARIAN CORRIDOR SCALES REVEALS THRESHOLDS TO SUPPORT WATERSHED MANAGEMENT ACTIONS Yates, Adam G.; Grimstead, Jeremy P.; Krynak, Edward M.
9:45 AM - 10:00 AM	USING CITIZEN SCIENCE DATA TO EVALUATE THE EFFECTS OF LAND USE ON MACROINVERTEBRATE COMMUNITIES IN AN URBAN RIVER Krantz, Niklas; Krabbenhoft, Corey; Kashian, Donna	INTERMITTENT STREAMS MAKE SIGNIFICANT CONTRIBUTIONS TO BIODIVERSITY IN DRYLAND RIVERS OF THE SOUTHWESTERN UNITED STATES Rogosch, Jane; Olden, Julian	ENTICEMENT THROUGH IMMERSION: ENGAGEMENT AND RECRUITMENT OF AQUATIC ECOLOGISTS AT A PUI Heilveil, Jeffrey	INCORPORATING FOOD WEBS INTO BIOASSESSMENT USING METABARCODING AND TEXT MINING: DO DERIVED NETWORK METRICS REFLECT ECOSYSTEM FUNCTION? Compson, Zacchaeus; Monk, Wendy; Rideout, Natalie; Baker, Christopher; Al-Manir, Mohammad Sadnan; Stefani, Sonja; Hajibabaei, Mehrdad; Baird, Donald	COMPARING AGRICULTURAL AND URBAN LAND USE IMPACTS ON THE COMPONENTS OF ECOLOGICAL INTEGRITY: AN EMPIRICAL ANALYSIS Riseng, Catherine; Wiley, Mike; Waite, Ian; Munn, Mark
10:00 AM - 10:15 AM	HYDROGEOMORPHIC CHARACTERISTICS ALTER AQUATIC INSECT DRIFT COMMUNITY COMPOSITION AND ABUNDANCE Rieck, Leslie O.; Sullivan, S. Mazeika P.	METABOLIC HETEROGENEITY IN RIVERS OF THE MOUNTAIN STEPPES OF MONGOLIA AND WYOMING Schechner, Anne; Dodds, Walter K.; Tromboni, Flavia; Chandra, Sudeep	RECRUITING AND RETAINING THE NEXT GENERATION OF STEM PROFESSIONALS – THE DAY1: WATERSHED RESEARCH COMMUNITY AT HOPE COLLEGE Krueger, Brent; Best, Aaron; Mader, Catherine; Peaslee, Graham; Pikaart, Michael; Scogin, Stephen; Shorb, Justin; Brokus, Sarah; Moen, Francesco; Payne, Chelsea; Wade, Randall	MANAGING STREAMS FROM THE OUTSIDE IN Siders, Adam; Compson, Zacchaeus; Wymore, Adam; Marks, Jane	IMPROVING CONSERVATION OF FRESHWATER ORGANISMS: USING MULTIPLE SPECIES DISTRIBUTION MODELS TO ENHANCE DECISION-MAKING THROUGH LARGE REGIONS Cooper, Arthur; Infante, Dana; Fuller, Pam; Neilson, Matthew; Daniel, Wesley; McKerrow, Alexa; Wieferich, Daniel; Tsang, Yin-Phan; Herreman, Kyle
10:15 AM - 10:30 AM	ASSESSING THE EFFECTIVENESS OF URBAN GARDENS AS GREEN INFRASTRUCTURE IN THE WASHINGTON, DC AREA Spiller, Anna; Howard, Keeli; Hyde, Harrison; Pollard, Gwynn; Knee, Karen	A DEPTH-EXPLICIT TRANSECT-BASED METHODOLOGY FOR CHAB VISUALIZATION IN INLAND WATERS Ruhl, Nathan; Papachristou, Charalampos	TEACHING PRACTICES IN REFORMED UNDERGRADUATE STEM LEARNING ENVIRONMENTS: A STUDY OF INSTRUCTOR AND STUDENT BEHAVIORS IN BIOLOGY COURSES Kranzfelder, Petra; Lo, Alexander T.; Melloy, Marin P.; Walker, Lindsey E.; Warfa, Abdi-Rizak M.	LEAF DISK RESPIRATION AND ALKALINE PHOSPHATASE ACTIVITY MEASURED ACROSS A DISSOLVED INORGANIC PHOSPHORUS GRADIENT IN THE LABORATORY Evans-White, Michelle; Smartt, Ayla; Entrekin, Sally; Halvorson, Halvor; Scott, Thad	BENTHIC LIGHT AVAILABILITY DRAMATICALLY IMPROVES PREDICTIONS OF RIVERINE PRODUCTIVITY Kirk, Lily; Cohen, Matthew; Hensley, Robert; Savoy, Philip

330B	410A	410B	420A	420B	430B	
C27 Landuse and Non-Point Source Impacts <i>Moderator: David Manning</i>	C26 Invasive Species <i>Moderator: Darrin Hunt</i>	C13 Ecotoxicology <i>Moderator: Michael Griffith</i>	C03 Invertebrates <i>Moderator: Sarah Whorley</i>	S12 Status and Trends in Arctic Freshwater Biodiversity Across the Circumpolar Region <i>Moderator: Jennifer Lento</i>	S05 Damming the Amazon—Hydropower Proliferation in the World's Largest River System <i>Moderator: Andrea Carolina Encalada</i>	SESSION
PATTERNS IN ARCTIC FRESHWATER LANDSCAPES ANALYZED USING REMOTE SENSING Olson, John; Doyle, Jessie	EVALUATING POTENTIAL EFFECTS OF BIGHEADED CARPS ON FATTY ACID PROFILES OF MULTIPLE TROPHIC LEVELS IN LARGE RIVERS OF THE MIDWEST Fritts, Andrea; Knights, Brent; Richardson, William; Bartsch, Lynn; Bartsch, Michelle; Vallazza, Jon; Kreiling, Rebecca; Bailey, Sean; Lafrancois, Toben; Karns, Byron	DESCRIPTION OF THE CHIRONOMUS SP. (DIPTERA, CHIRONOMIDAE) NEUROMUSCULAR SYSTEM: A TOOL FOR FUTURE FRESHWATER ECOTOXICOLOGICAL EVALUATIONS IN PUERTO RICO Reyes-Maldonado, Roberto; De Leon, Kevin; Marie, Bruno; Ramirez, Alonso	PHENOLOGICAL SHIFT OF CANADA DARNER (AESHNA CANADENSIS) EMERGENCE IN THE ST. CROIX RIVER VALLEY, MINNESOTA Kundel, Holly; Crews-Erjavec, Maia; Schilling, Emily	CIRCUMPOLAR ASSESSMENT OF TRENDS IN ARCTIC FRESHWATER BIODIVERSITY Culp, Joseph M.; Lento, Jennifer; Goedkoop, Willem; Seestern Christoffersen, Kirsten; Fefilova, Elena; Guðbergsson, Guðni; Liljaniemi, Petri; Sandøy, Steinar; Zimmerman, Christian	DAMS LARGE AND SMALL: ECOSYSTEM IMPACTS ON THE WORLD'S TROPICAL RIVER SYSTEMS Hamilton, Stephen	9:00 AM - 9:15 AM
EFFECTS OF FORESTED BUFFERS ON BIOTIC INDICATORS OF WATER QUALITY IN THE WESTERN FINGER LAKES Owens, Mitchell; Williams, Clayton; Haynes, James	LONG-TERM ZOOPLANKTON COMMUNITY PATTERNS IN LAKE CHAMPLAIN, USA: THE ROLE OF INVASIVE SPECIES IN RE-STRUCTURING LAKE FOOD WEBS. Mihuc, Timothy	STREAM MESOCOSM PHOSPHORUS DOSE-RESPONSE VALIDATION STUDY Nietch, Christopher; Weaver, Paul; Lazorchak, Jim; Smucker, Nathan	THE RESPONSES OF STRUCTURE AND FUNCTION TO ANTHROPOGENIC FLOW REGIMES IN A MONTANE UTAH RIVER SYSTEM Epperly, Joshua	BIODIVERSITY OF BENTHIC MACROINVERTEBRATES ACROSS THE CIRCUMPOLAR REGION: EVIDENCE OF LATITUDINAL DECLINES IN RICHNESS IN ARCTIC RIVERS AND LAKES Levenstein, Brianna; Lento, Jennifer; Culp, Joseph M.; Goedkoop, Willem; Aroviita, Jukka; Baturina, Maria; Bogan, Daniel; Brittain, John; Chin, Krista; Docherty, Catherine; Einarsson, Arni; Friberg, Nikolai; Heino, Jani; Hrafnisdottir, Thora Katrin; Jacobsen, Dean; Lau, Danny Chun Pong; Loskutova, Olga; Milner, Alexander; Mykrä, Heikki; Novichkova, Anna; Ólafsson, Jón S.; Schartau, Ann Kristin; Shaftef, Rebecca	MAKING THE CASE FOR CONSERVATION OF FREE-FLOWING RIVERS IN THE ANDEAN AMAZON Anderson, Elizabeth P.; Jenkins, Clinton; Heilpern, Sebastian; Maldonado-Ocampo, Javier; Farah, Aldo	9:15 AM - 9:30 AM
DECLINES IN AERIAL INSECTIVOROUS BIRDS LINKED TO NATIONAL TRENDS IN WATER QUALITY Manning, David W. P.; Sullivan, S. Mazeika P.	THE AFTERMATH OF DREISSENID INVASIONS ON STREAM BENTHIC MACROINVERTEBRATE AND FISH COMMUNITIES Hunt, Darrin; Kashian, Donna	FRESHWATER SALINIZATION: MULTI-YEAR STUDY REVEALS NATURAL SEASONAL SALINITY PATTERN, IMPLICATIONS FOR MACROINVERTEBRATE LIFE-CYCLE EXPOSURE Timpano, Tony; Zipper, Carl; Soucek, David; Schoenholtz, Stephen	AQUATIC INVERTEBRATE COMMUNITIES ASSOCIATED WITH <i>ELODEA CANADENSIS</i> : A COMPARISON BETWEEN ITS NATIVE AND NON-NATIVE RANGES Piacente, Jennifer; Adelfio, Chantel; Berg, Martin B.	DRIVERS OF FRESHWATER FISH BIODIVERSITY DEPEND ON LOCATION AND ISOLATION IN THE CIRCUMPOLAR ARCTIC Laske, Sarah; Svenning, Martin; Amundsen, Per-Arne; Christoffersen, Kirsten; Erkinaro, Jaakko; Guðbergsson, Guðni; Hayden, Brian; Heino, Jani; Kahilainen, Kimmo; Lento, Jennifer; Orell, Panu; Östergren, Johan; Power, Michael; Rafikov, Ruslan; Romakaniemi, Atso; Solbakken, Jan-Idar; Swanson, Heidi; Whitman, Matthew; Zimmerman, Christian	POTENTIAL IMPACTS OF NEW ANDEAN DAMS ON SEDIMENT AND NUTRIENT SUPPLIES OF THE AMAZON RIVER Forsberg, Bruce; Dunne, Thomas; Melack, John; Flecker, Alexander	9:30 AM - 9:45 AM
THE IMPACTS OF AN AGRICULTURAL TO URBAN LAND COVER GRADIENT ON HABITAT, FISH, AND MACROINVERTEBRATES IN A COLDWATER STREAM Myers, Dan	A BOBBER'S PERSPECTIVE ON ANGLER-DRIVEN VECTORS OF INVASIVE SPECIES TRANSMISSION Fricke, Rachel; Messenger, Mathis L.; Martin, Dustin; Olden, Julian	STREAM BEDFORM AND HYPORHEIC FLOWS: EFFECTS ON METAL BIOAVAILABILITY AND BIOLOGICAL COMMUNITIES IN SEDIMENTS Harrison, Anna	IMPROVING THE KNOWLEDGE BASE ON THE PHYSICAL EFFECTS OF FINE SEDIMENT FOR MACROINVERTEBRATES Mckenzie, Morwenna; Mathers, Kate; Wood, Paul; Wilkes, Martin	DRIVING VARIABLES OF STREAM MACROINVERTEBRATE COMMUNITIES IN GREENLAND Docherty, Catherine; Milner, Alexander; Seestern Christoffersen, Kirsten	THE CHANGING ECOHYDROLOGY OF A DAMMED AMAZON BASIN Kaplan, David; Timpe, Kelsie	9:45 AM - 10:00 AM
RIPARIAN SHADE CONTROLS ON STREAM TEMPERATURE NOW AND IN THE FUTURE ACROSS TRIBUTARIES OF THE COLUMBIA RIVER, USA Fuller, Matthew; Detenbeck, Naomi; Leinenbach, Peter; Labiosa, Rochelle; Isaak, Daniel	LONG-TERM RESPONSES OF NATIVE BIVALVES (UNIONIDAE AND SPHAERIIDAE) TO THE DREISSENID INVASION OF THE FRESHWATER TIDAL HUDSON RIVER Strayer, David; Malcom, Heather	DETECTION OF ESTROGENIC HORMONES AND UV-FILTERS IN VIRILE CRAYFISH (ORCONECTES VIRILIS) IN URBAN STREAMS NEAR BALTIMORE, MARYLAND Timm, Anne; He, Ke; Blaney, Lee	DOES LABORATORY BEHAVIOR CORRELATE WITH DIET FOR THE INVASIVE RUSTY CRAYFISH FAXONIUS RUSTICUS? Adey, Amaryllis	ENVIRONMENTAL MONITORING IN A WARMING ARCTIC: SPATIAL AND TEMPORAL PATTERNS OF DIATOM ASSEMBLAGES FROM CIRCUMPOLAR LAKES AND STREAMS Lavoie, Isabelle; Kahler, Maria; Ruhland, Kathleen; Keck, Francois; Saulnier-Talbot, Emilie; Bogan, Daniel; Brua, Robert; Campeau, Stephane; Culp, Joseph M.; Seestern Christoffersen, Kirsten; Einarsson, Arni; Lento, Jennifer; Karjalainen, Satu-Maaria; Schneider, Susanne; Shaftef, Rebecca; Smol, John	GREENHOUSE-GAS EMISSIONS OF AMAZON HYDROPOWER Almeida, Rafael; Flecker, Alexander; Forsberg, Bruce; Garcia-Villacorta, Roosevelt; Hamilton, Stephen	10:00 AM - 10:15 AM
USING A TRAITS APPROACH TO HELP DISENTANGLE THE DIRECT AND INDIRECT EFFECTS OF ANTHROPOGENIC FACTORS ON INVERTEBRATE RESPONSE TO STREAM FLOW ALTERATION Kennen, Jonathan; Cuffney, Thomas	DIFFERENTIAL EFFECTS OF BYTHOTREPHES LONGIMANUS ON POPULATION GROWTH RATES OF LAKE MICHIGAN ZOOPLANKTON SPECIES Marino, John; Vanderploeg, Henry; Pothoven, Steven; Elgin, Ashley; Peacor, Scott	USING FIELD DATA TO ASSESS THE TOLERANCE OF FRESHWATER FISH TO ELEVATED IONIC CONCENTRATIONS Griffith, Michael; Zheng, Lei; Cormier, Susan	MEIOFAUNA OF ONEONTA CREEK, OTSEGO COUNTY, NEW YORK Newtown, Sarah; Heilveil, Jeffery	THE BIOTIC RESPONSE TO A CHANGING CLIMATE: TRENDS IN ARCTIC FRESHWATER BIODIVERSITY ACROSS NORTH AMERICA Lento, Jennifer; Zimmerman, Christian; Bogan, Daniel; Brua, Robert B.; Campeau, Stephane; Chin, Krista; Culp, Joseph M.; Knopp, Jennie; Laske, Sarah; Lavoie, Isabelle; Levenstein, Brianna; Mariash, Heather; Power, Michael; Rautio, Milla; Ruhland, Kathleen; Saulnier-Talbot, Emilie; Shaftef, Rebecca; Smol, John; Swanson, Heidi; Whitman, Matthew	DAMS IN THE ECUADORIAN ANDEAN-AMAZON RIVERS: ECOLOGICAL AND SOCIAL IMPACTS Encalada, Andrea C.; Anderson, Elizabeth; Bernal, Carolina; Sabo, John; Ochoa-Herrera, Valeria; Mateus, Cristina; Flecker, Alexander	10:15 AM - 10:30 AM



Thursday — Late Morning Oral

MAY 24, 2018

	310A	310B	320	321	330A
SESSION	S10 Land-water Boundaries: Towards Harmonizing Hydrological and Biogeochemical Concepts in Riparian Zones Across Ecoregions <i>Moderator: Gilles Pinay</i>	S09 Spatial Aspects of Freshwater Ecology: Understanding, Managing, Predicting <i>Moderator: Mathias Kuemmerlen</i>	S29 Scholarship of Teaching and Learning in Freshwater Science <i>Moderator: Kaleb Heinrich</i>	S06 Social-Ecological Freshwater Systems and Ecosystem Services <i>Moderator: Krista Capps</i>	S26 Ecological Perspectives on the Movement and Transformation of Anthropogenic Materials in Freshwaters <i>Moderator: Timothy Hoellein</i>
11:00 AM - 11:15 AM	RIPARIAN ZONES: WHY BOTHER? Pinay, Gilles; Abbott, Benjamin; Moatar, Florentina	ESTIMATING CHANGES TO GROUNDWATER DISCHARGE TEMPERATURE UNDER ALTERED CLIMATE CONDITIONS Burns, Erick; Zhu, Yonghui; Zhan, Hongbin; Manga, Michael; Williams, Colin; Ingebritsen, Steven; Dunham, Jason	BUILDING CURRICULUM VITAE OF FUTURE AQUATIC SCIENTISTS WITH CURRICULAR ACTIVITIES Sluss, Tamara; Cecil, Rhiannon	A SOCIAL-ECOLOGICAL INVESTIGATION OF RIVERINE HABITAT COMPLEXITY: INSECT EMERGENCE, TERRESTRIAL INSECTIVORES, AND PUBLIC PERCEPTIONS Ortiz, Jade; Baxter, Colden; Lybecker, Donna	PLASTIC LITTER IN FRESHWATERS: ABUNDANCE, MOVEMENT, AND BIOLOGICAL INTERACTIONS Hoellein, Timothy; McNeish, Rachel; Dunn, Samuel; Kim, Lisa; Vincent, Anna; Hou, Loren; Berg, Elizabeth; Kelly, John
11:15 AM - 11:30 AM	RIPARIAN ZONES: WHY BOTHER? Pinay, Gilles; Abbott, Benjamin; Moatar, Florentina	MODELING THERMAL LANDSCAPES FROM A FISH PERSPECTIVE WITH IMPLICATIONS FOR A CHANGING CLIMATE Marsha, Amy; Steel, E. Ashley; Fullerton, Aimee	A STREAM-SPECIFIC MACROINVERTEBRATE FIELD GUIDE FOR MOBILE DEVICES. McCabe, Declan; Roberge, Janel	A STUDY OF RELATIONAL VALUES IN A SOCIAL-ECOLOGICAL RIVER SYSTEM: CONNECTIONS BETWEEN FISHING AND HUMAN WELL-BEING Eckersell, Adam; Nelson, Loni; VanKirk, Rob; Quintas Soriano, Christina; Running, Katrina; Fulton, Erika; Baxter, Colden; Castro, Antonio J.	RIVERINE MICROPLASTIC EXPORT: LAND-USE EFFECTS AND INTERACTIONS WITH FISH McNeish, Rae; Kim, Lisa; Barrett, Heather; Mason, Sherril; Kelly, John; Hoellein, Timothy
11:30 AM - 11:45 AM	HOW DO WE MEASURE BIOGEOCHEMICAL HOT SPOTS AND MOMENTS? MOVING TOWARD A UNIFYING EMPIRICAL FRAMEWORK Podzikowski, Laura; Loেকে, Terrance D.; Burgin, Amy J.	HIERARCHICAL SCALE-DEPENDENCY IN FRESHWATER SPECIES DISTRIBUTION MODELS: HOW DOES THE PREDICTOR IMPORTANCE CHANGE WITH VARYING SPATIAL SCALES? Friedrichs, Martin; Pletterbauer, Florian; Hein, Thomas; Kling, Harald; Langhans, Simone D.; Jähnig, Sonja C.; Domisch, Sami	A BIOMONITORING INVESTIGATION TO PROMOTE DEEP, REAL-WORLD UNDERSTANDING OF FRESHWATER ECOSYSTEMS: A CASE STUDY FROM AN ENGLISH WINTER Stubbington, Rachel	ANADROMY IN THE DESERT: BALANCING GROUNDWATER MANAGEMENT AND MIGRATION OF ENDANGERED STEELHEAD IN A LARGE SPATIALLY INTERMITTENT WATERSHED Booth, Michael	LAND USE EFFECTS ON MICROPLASTIC POLLUTION IN INDIANA RIVERS Conard, Whitney; O'Reilly, Katherine; Hartlage, Margaret; Lamberti, Gary
11:45 AM - 12:00 PM	THE ROLE OF VEGETATION IN THE NITROGEN REMOVAL CAPACITY FROM A MEDITERRANEAN RIPARIAN FOREST: INTERACTIONS BETWEEN WATER AND NITROGEN FLUXES Poblador, Silvia; Lupon, Anna; Thomas, Zahra; Sabaté, Santiago; Sabater, Francesc	COMPARISON OF GEOMORPHIC PROPERTIES BETWEEN FUNCTIONAL PROCESS ZONES IN THE WESTERN UNITED STATES Costello, John; Kotlinski, Nicholas; Kenner, Scott; Thorp, James	ADOPTING PARTNERSHIPS TO INCREASE AWARENESS OF FRESHWATER RESOURCES THROUGH CITIZEN SCIENCE Colon-Gaud, Chco; Roberson, Luke	ASSESSING THE RELATIONSHIP BETWEEN WATER QUALITY AND WATERSHED PROTECTION: A CASE STUDY IN QUÉBEC, CANADA Hanna, Dalal; Lehner, Bernhard; Solomon, Christopher; Bennett, Elena	CRAYFISH ON DRUGS: EFFECTS OF A COMMON ANTI-DEPRESSANT ON CRAYFISH BEHAVIOR AND SUBSEQUENT BIOGEOCHEMICAL IMPACTS Reisinger, Alexander; Reisinger, Lindsey; Richmond, Erin; Rosi, Emma
12:00 PM - 12:15 PM	LINKING RIPARIAN AND STEAM NITROGEN DYNAMICS IN A MEDITERRANEAN HEADWATER CATCHMENT Lupon, Anna; Sabater, Francesc; Poblador, Silvia; Martí, Eugènia; Bernal, Susana	LANDSCAPE SCALE RISK ASSESSMENT OF CYANOBACTERIA BLOOMS IN CALIFORNIA LAKES Beck, Marcus; Dee, Martha; Howard, Meredith; Stein, Eric	INTEGRATING INQUIRY-BASED CLASSROOM PEDAGOGY INTO A WEB-BASED OUTREACH PROJECT: A VIRTUAL FIELD TRIP TO LAKE TANGANYIKA Vadeboncoeur, Yvonne; Kenyon, Lisa; Gaines, Elliot	DIFFERENT USES FOR DIFFERENT WATERS: A POLICY FOR TRADEOFFS IN ECOSYSTEM SERVICES ALONG HUMAN DISTURBANCE GRADIENTS Stevenson, R. Jan; Herriges, Joe; Lupi, Frank	NEVERTHELESS, THEY PERSISTED: INCREASING OCCURRENCE OF HORMONES IN STREAMS DUE TO HYPORHEIC EXCHANGE Cheng, Frederick; Gall, Heather; Mashtare, Michael; Lee, Linda; Basu, Nandita
12:15 PM - 12:30 PM	HYDROLOGICAL CONTROLS OVER ORGANIC MATTER SUPPLY AND METABOLIC ACTIVITY IN BOREAL STREAMS Sponseller, Ryan; Lupon, Anna; Gómez-Gener, Luis; Laudon, Hjalmar; Hotchkiss, Erin	EXPLORING BROAD-SCALE FISH MERCURY BIOACCUMULATION PATTERNS: ROLE OF GROWTH DILUTION IN A WARMING CLIMATE Thomas, Shyam; Melles, Stephanie; Bhavsar, Satyendra	LEAF-PACKS AND ARTISTS: NURTURING ANALYSIS AND OUTREACH Aliberti Lubertazzi, Maria	DO PEOPLE KNOW THE ROLE OF MUSSEL-RELATED ECOSYSTEM SERVICES FOR HUMAN WELLBEING? Castro, Antonio J.; Vaughn, Caryn C.; Quintas-Soriano, Cristina; Ferreira-Rodriguez, Noe	DETERMINING THE INFLUENCE OF WASTEWATER EFFLUENT ON PROXIMAL MICROBIAL COMMUNITY DYNAMICS IN FOURMILE CREEK (ANKENY, IOWA) Givens, Carrie; Duris, Joseph; Hubbard, Laura; Isaacs, Natasha; Kolpin, Dana; Bradley, Paul

330B	410A	410B	420A	420B	430B	SESSION
C27 Landuse and Non-Point Source Impacts <i>Moderator: Petra Kranzfelder</i>	C26 Invasive Species <i>Moderator: Geoffrey Poole</i>	C31 Organic Matter Processing <i>Moderator: Natalie Griffiths</i>	C03 Invertebrates <i>Moderator: Susan Washko</i>	C35 Systematics and Taxonomy <i>Moderator: Ryan Hill</i>	S05 Damming the Amazon—Hydropower Proliferation in the World's Largest River System <i>Moderator: Alex Flecker</i>	
ASSESSMENT OF CONFIDENCE IN A MAUMEE RIVER WATERSHED SWAT MODEL Kujawa, Haley ; Kalcic, Margaret; Martin, Jay; Apostel, Anna; Kast, Jeffrey; Aloysius, Noel; Teshager, Awoke; Wang, Yu-Chen; Muenich, Rebecca	OF LIMPKINS AND APPLE SNAILS: INVASIVE SPECIES, NOVEL ECOSYSTEMS, AND AN UNCERTAIN FUTURE Golladay, Stephen ; Waters, Matthew; Smith, Chelsea; Marzolf, Nicholas; Shivers, Stephen; Clayton, Brian; Covich, Alan	EFFECTS OF WARMING AND ELEVATED CO ₂ ON ORGANIC MATTER DECOMPOSITION IN A PEATLAND USING AN ECOSYSTEM-SCALE EXPERIMENT Griffiths, Natalie ; Kolka, Randy; Iversen, Colleen; Tieg, Scott; Brice, Deanne	EVALUATING THE EFFECT OF BOTTOM DEPOSITS ON BIOLOGICAL INDICATORS FOR PROTECTING ARIZONA'S PERENNIAL STREAMS Gullo, Catherine	LARVAE OF NORTH AMERICAN SPECIES OF PTERONARCYS (PLECOTERA: PTERONARCIDAE) Myers, Luke ; Kondratieff, Boris	DAMS, FISH, AND FISHERIES IN THE AMAZON BASIN Castello, Leandro	1:00 AM - 11:15 AM
TEMPORAL PATTERNS OF STREAM METABOLISM IN THREE STREAMS EXPOSED TO DIFFERENT SOURCES OF ANTHROPOGENIC NUTRIENTS Pearce, Nolan J.T. ; Venkiteswaran, Jason J.; Chambers, Patricia A.; Yates, Adam G.	UNINTENDED CONSEQUENCES OF INVASIVE SPECIES MANAGEMENT: ASIAN CARP BARRIERS MAY ALSO CONSTRAIN LONG-TERM DYNAMICS OF THE NATIVE FISH ASSEMBLAGE Altenritter, Matthew ; Casper, Andrew	GLOBAL PATTERNS AND CONTROLS OF ORGANIC-MATTER DECOMPOSITION IN STREAMS AND RIPARIAN ZONES REVEALED THROUGH CROWDSOURCING Tiegs, Scott ; Costello, David; Isken, Mark; Woodward, Guy; McIntyre, Peter B.; Chauvet, Eric; Flecker, Alexander; Gessner, Mark; Griffiths, Natalie; The CELLEX Consortium	WHO IS ON MY ROCK?: THE ECOLOGICAL AND EVOLUTIONARY DYNAMICS OF AQUATIC INSECTS CROSSING LOTIC-LENTIC BOUNDARIES IN THE LAKES BASIN, SIERRA NEVADA, CALIFORNIA Parisek, Christine ; Marchetti, Michael; Cover, Matthew	DESCRIPTION AND DIAGNOSIS OF ASSOCIATED LARVAE AND ADULTS OF VIETNAMESE AND SOUTH CAROLINA CADDISFLIES Genco, Madeline	WHAT IF MANSERICH DAM (PERU) IS BUILT? THEIR EFFECTS ON HYDROLOGY FEATURES, FISH DIVERSITY, AND FISH CONSUMPTION IN THE MARANON RIVER Canas, Carlos ; Montoya, Mariana	11:15 AM - 11:30 AM
RESPONSES OF MACROINVERTEBRATE COMMUNITIES IN ROMANIAN STREAMS TO MULTIPLE AGRICULTURAL STRESSORS Kunz, Stefan ; Schreiner, Verena; Szöcs, Eduard; Link, Moritz; Battes, Karina; Cimpean, Mirela; Schäfer, Ralf	EVOLUTIONARY ECOLOGY OF GREAT LAKES ALEWIVES (ALOSA PSEUDOHARENGUS): AN ANALYSIS OF PHENOTYPIC PATTERNS AND RATES OF CHANGES Smith, Shelby ; Palkovacs, Eric; Bloom, Devin	DISSOLVED ORGANIC MATTER DYNAMICS IN GRASSLAND STREAMS Higgs, Sophie A. ; Dodds, Walter K.	MACROINVERTEBRATES OF BEAVER-ALTERED STREAMS IN NORTHEASTERN UTAH Washko, Susan ; Atwood, Trisha	CURRENT PROGRESS IN THE STUDY OF THE MAYFLY SPECIES (INSECTA: EPHEMEROPTERA) OF NORTH AND CENTRAL AMERICA Jacobus, Luke M. ; Hopkins, Jacob; Lange, Jentry; Phares, Ciara; Venkatesh, Ajit; Koors, Devin; Cool, David; Riebl, Sophia; Zaspel, Jennifer	A MODEL SIMULATING INTERACTIONS BETWEEN HYDROLOGY, LANDSCAPE, SPECIES TRAITS AND BIOTIC INTERACTIONS TO PREDICT DAM IMPACTS ON RIVER-FLOODPLAIN SYSTEMS Cunha, Eduardo ; Piana, Pitagoras; Agostinho, Angelo; Gomes, Luiz; Winemiller, Kirk	11:30 AM - 11:45 AM
INFLUENCE OF LAND COVER, DISCHARGE, AND SEASON ON SUSPENDED SEDIMENT AND NUTRIENT CONCENTRATIONS IN SW OHIO STREAMS Spahr, Rachel ; Lazar, Jeff; Grudzinski, Bartosz	MANAGING INVASIVE RED SWAMP CRAYFISH TO RESTORE STREAM HABITAT IN THE SANTA MONICA MOUNTAINS, LOS ANGELES COUNTY, CA De Palma-Dow, Angela ; Curti, Joseph; Sharpton, Debra	REVING UP AND BURNING OUT? LEAF LITTER SPECIES IDENTITY AND DIVERSITY INFLUENCE WHOLE-STREAM NUTRIENT DYNAMICS Robbins, Caleb J. ; Matthaeus, Will; Cook, Stephen C.; Housley, Lauren; Hester, Sarah; Garbarino, Matt; LeBrun, Erick; Raut, Swastika; Tseng, Chi-Yen; King, Ryan S.	FACTORS INFLUENCING STREAM INVERTEBRATE COMMUNITY STRUCTURE ACROSS PRAIRIE TYPES IN THE GREAT PLAINS Fralick, Kasey ; Whiles, Matt; Shoup, Logan; Fulgoni, Jessica	NAVIGATING TAXONOMIC BOUNDARIES: ADULTS OF THE NORTH AMERICAN TRICHOPTERA GENERA Morse, John C. ; Holzenthal, Ralph W.; Robertson, Desiree R.; Rasmussen, Andrew; Currie, Douglas C.	DAMMING THE AMAZON: EVALUATING TRADEOFFS BETWEEN HYDROPOWER AND ECOSYSTEM SERVICES USING A COMPUTATIONAL SUSTAINABILITY APPROACH Flecker, Alexander ; García-Villacorta, Roos-evelt; Shi, Qinru; Sethi, Suresh; Steinschneider, Scott; Forsberg, Bruce; Anderson, Elizabeth; Gomes Selman, Jonathan; Gomes, Carla; The Amazon Dams CompSust Working Group	11:45 AM - 12:00 PM
STRUCTURE AND FUNCTION OF MACROINVERTEBRATE COMMUNITIES FOR SETTING TARGETS FOR AGRICULTURAL BMP RESTORATION Kroll, Stefanie ; Oakland, Hayley; Jackson, John; Sweeney, Bernard; Battle, Juliann; Horwitz, Richard	RESPONSE TO THE NEW ZEALAND MUDSNAIL DISCOVERY IN WISCONSIN Ferry, Maureen ; MacFarland, Laura; Merkes, Christopher; Rowe, David; Scherer, Jeanne	(DE)-COUPLING OF DISSOLVED ORGANIC CARBON AND DISSOLVED ORGANIC NITROGEN ACROSS STREAM ECOSYSTEMS Wymore, Adam ; Helton, Ashley; Barnes, Rebecca; Brookshire, Jack; Kaushal, Sujay; Bernhardt, Emily; Dodds, Walter K.; Johnes, Penny; Johnson, Sherri; Kortelainen, Pirkko; McDowell, William H.; Spencer, Robert; Rodriguez-Cardona, Bianca; Argerich, Alba; Coble, Ashley; Lopez-Lloreda, Carla; Sullivan, Pamela; Haq, Shahan; Shattuck, Michelle	SEASONAL MIGRATION OF CORIXIDS (HEMIPTERA: CORIXIDAE) AS A LINKAGE BETWEEN WETLAND AND RIVER ECOSYSTEMS Srayko, Stephen ; Jardine, Tim; Phillips, Iain; Chivers, Doug	WEB-BASED LARVAL FISH AND UNIONID MOLLUSK GLOCHIDIA TAXONOMIC KEY RESOURCES FOR FRESH-WATER ENVIRONMENTS Jacobson, Nate ; Koch, Kathy; Bradley, Doug; Ciecik, Chris; Dunn, Heidi; Black, Jonathan; Dixon, Doug	WHAT ARE THE COSTS OF DAMMING THE AMAZON? Poff, N LeRoy	12:00 PM - 12:15 PM
		SUB-LETHAL SALT CONCENTRATIONS ALTER DETRITIVORE PERFORMANCE Entrekin, Sally ; Howard-Parker, Brooke; Clay, Natalie; Evans-White, Michelle	TRUE FRENEMIES: INTERACTIONS BETWEEN LARVAE OF THE ENDANGERED HINE'S EMERALD DRAGONFLY (SOMATOCHLORA HINEANA), AND ITS TEMPERAMENTAL CRAYFISH ROOMMATE Dombrowski, Patricia ; Soluk, Daniel	IMAGING FLUID-STORED ARTHROPOD COLLECTIONS USING 3D PRINT TECHNOLOGY Mendez, Patina ; Venter, Chris		12:15 PM - 12:30 PM



Thursday — Afternoon Oral

MAY 24, 2018

	310A	310B	320	321	330A
SESSION	S10 Land-water Boundaries: Towards Harmonizing Hydrological and Biogeochemical Concepts in Riparian Zones Across Ecoregions <i>Moderator: Jose Ledesma</i>	S09 Spatial Aspects of Freshwater Ecology: Understanding, Managing, Predicting <i>Moderator: Mathias Kuemmerlen</i>	S29 Scholarship of Teaching and Learning in Freshwater Science <i>Moderator: Kaleb Heinrich</i>	S06 Social-Ecological Freshwater Systems and Ecosystem Services <i>Moderator: Krista Capps</i>	S26 Ecological Perspectives on the Movement and Transformation of Anthropogenic Materials in Freshwaters <i>Moderator: Rae McNeish</i>
2:00 PM - 2:15 PM	1997-2017: TWENTY YEARS OF RIPARIAN ZONE RESEARCH: WHERE TO NEXT? Vidon, Philippe; Welsh, Molly; Hassanzadeh, Yasaman	ASSESSING THE STATE OF FRESHWATER ECOSYSTEMS AT THE CATCHMENT SCALE TO SUPPORT THE ENVIRONMENTAL MANAGEMENT OF RIVERS Kuemmerlen, Mathias; van Dijk, Diana; Siber, Rosi; Schuwirth, Nele; Reichert, Peter	AUTHENTIC UNDERGRADUATE RESEARCH EXPERIENCES IN GENERAL BIOLOGY LABS INSPIRED BY FRESHWATER ECOLOGY AND AQUATIC ENTOMOLOGY Cover, Matthew; Parisek, Christine	ECOLOGICAL IMPLICATIONS OF AGING AND OBSOLETE WATER INFRASTRUCTURE Capps, Krista	HUMAN TRASH AND MICROBIAL TREASURES: DISTINCT PATTERNS OF MICROBIAL BIOFILM SUCCESSION ON PLASTIC LITTER SURFACES Dunn, Samuel; Vincent, Anna; Hoellein, Timothy
2:15 PM - 2:30 PM	LIMITS AND LOCATION OF DENITRIFICATION AT CATCHMENT SCALES: CAN HYPORHEIC AND RIPARIAN REMOVAL SOLVE DIFFUSE NUTRIENT POLLUTION? Abbott, Benjamin; Kolbe, Tamara; de Dreuz, Jean-Raynald; Vautier, Camille; Marçais, Jean; Thomas, Zahra; Moatar, Florentina; Aquilina, Luc; Labasque, Thierry; Zarnetske, Jay; Lécuyer, Christophe; Pinay, Gilles	BEYOND "DONORS AND RECIPIENTS": IMPACTS OF SPECIES GAINS AND LOSSES REVERBERATE AMONG ECOSYSTEMS DUE TO CHANGES IN RESOURCE SUBSIDIES Collins, Scott; Baxter, Colden	CONDUCTING FRESHWATER RESEARCH AT A PRIMARILY UNDERGRADUATE INSTITUTION: THE RESEARCH COURSE SEQUENCE Whorley, Sarah	EFFECTS OF OIL EXPLOURATION IN SELECTED WETLANDS OF THE NIGER DELTA, NIGERIA: A SOCIAL-ECOLOGICAL PERSPECTIVE Uku, Jude; Arimoro, Francis; Odume, Oghenekaro Nelson	BIOFILM ACCUMULATION MEDIATES THE TRANSPORT OF GENETICALLY-ENGINEERED PROTEIN (CRY1AB) IN EXPERIMENTAL STREAMS Shogren, Arian; Tank, Jennifer L.; Dee, Martha M.; Speir, Shannon; Rosi, Emma; Egan, Scott; Bolster, Diogo
2:30 PM - 2:45 PM	SYNTHESIZING RIPARIAN CONTROLS ON NITRATE EXPORT IN FORESTED AND URBAN TEMPERATE CATCHMENTS Duncan, Jon; Welty, Claire	WINTER PRECIPITATION AND SUMMER TEMPERATURE PREDICT LAKE ECOSYSTEM PROPERTIES AT MACROSCALES Collins, Sarah M; Yuan, Shuai; Tan, Pang-Ning; Oliver, Samantha; Lapierre, Jean Francois; Cheruvellil, Kendra; Fergus, C. Emi; Skaff, Nicholas; Stachelek, Joseph; Wagner, Tyler; Soranno, Patricia A	AQUATIC BIODIVERSITY IN THE BAHAMAS: ENGAGING UNDERGRADUATES IN RESEARCH THROUGH A FACULTY-LED STUDY ABROAD EXPERIENCE Anderson, Alyssa; Wollman, Katherine M.	FLOOD PROTECTION ECOSYSTEM SERVICES IN THE COAST OF PUERTO RICO: ASSOCIATIONS BETWEEN WATERSHED PROCESSES AND HUMAN HEALTH INDICATORS de Jesus Crespo, Rebeca; Wu, Jianyong	ANTHROPOGENIC LITTER IN URBAN STREAMS: SPATIAL DISTRIBUTION OF PLASTIC AND ITS ROLE IN LEAF LITTER BREAKDOWN Kim, Lisa; Dunn, Samuel; Hoellein, Timothy
2:45 PM - 3:00 PM	EFFECTS OF FLOODPLAIN RESTORATION ON NITROGEN AND PHOSPHORUS DYNAMICS IN AGRICULTURAL WATERSHEDS McMillan, Sara; Alford, Celena; Johnson, Alex; Saksena, Siddharth; Merwade, Venkatesh; Noe, Gregory	COMPARING SPATIAL PATTERNS OF RIVER WATER ISOTOPES ACROSS NETWORKS McGill, Lillian; Steel, E. Ashley; Brooks, J. Renee; Fullerton, Aimee	DEVELOPING ECOLOGICAL THINKING IN AQUATIC ECOLOGY IN INTEGRATED INTRODUCTORY BIOLOGY AND CHEMISTRY COURSES FOR FRESHMEN LIFE SCIENCE MAJORS Hunt, Seth; Hlousek-Radojic, Alenka; Fajardo, Jacqueline	GLOBAL WATER TRANSFER MEGAPROJECTS PLANNED OR UNDER CONSTRUCTION Shumilova, Oleksandra; Tockner, Klement; Koska, Anna; Zarfl, Christiane	MERCURY BIOMAGNIFICATION IN AQUATIC FOOD WEBS ON A GLOBAL SCALE Kidd, Karen; Lavoie, Raphael; Amyot, Marc; Campbell, Linda; Chumchal, Matthew; Jardine, Tim
3:00 PM - 3:15 PM	THE EFFECT OF FLOODPLAIN CREATION ON SOIL PROCESSES IN AGRICULTURAL CHANNELS Alford, Celena; McMillan, Sara; Johnson, Alex; Limiac, Amanda	A STATISTICAL MIXING MODEL PREDICTS NETWORK-SCALE TEMPERATURE PATTERNS IN STREAMS WITH ABUNDANT ALPINE LAKES Poole, Geoffrey; Carlson, Sam	DEVELOPING COLLABORATIVE RESEARCH TO TAKE FRESHWATER SCIENCE EDUCATION OUTSIDE THE CLASSROOM: THE STORY OF NORTHEAST GLEON Bruesewitz, Denise; Borre, Lisa; Klug, Jen; Richardson, David; Weathers, Kathleen; Wigdahl-Perry, Courtney; Yokota, Kiyoko	QUANTIFYING FLOODPLAIN ECOSYSTEM SERVICES Hopkins, Kristina; Noe, Gregory; Lamont, Samuel; Claggett, Peter; Hogan, Dianna; Pindilli, Emily	MESOCOSM EXPERIMENTS CONDUCTED WITH METAL MIXTURES OFTEN REVEAL ECOLOGICAL SURPRISES Clements, William; Kotalik, Christopher; Wolff, Brian; Cadmus, Pete
3:15 PM - 3:30 PM	THE LONGITUDINAL IMPLICATIONS OF ABRUPT RIPARIAN CHANGES: A CASE STUDY FROM BRAZIL Thomas, Steven; Feijó de Lima, Rafael; Tromboni, Flavia; F. Silva-Júnior, Eduardo; Moulton, Timothy P.; Zandona, Eugenia	DISTURBANCE IN A STREAM NETWORK: GENETIC AND DEMOGRAPHIC DATA HELP PREDICT POST-DISTURBANCE COMMUNITY STRUCTURE Turner, Thomas; Pilger, Tyler; Gido, Keith; Propst, David; Whitney, James	FROM MACROINVERTEBRATES TO MICROSCOPES: INTEGRATING INDEPENDENT RESEARCH IN AQUATIC ECOLOGY IN UPPER- AND LOWER-DIVISION COURSES Ganong, Carissa		

330B	410A	410B	420A	420B	430B	SESSION
C27 Landuse and Non-Point Source Impacts <i>Moderator: Stefanie Kroll</i>	C30 Molecular Ecology <i>Moderator: Lori Tolley-Jordan</i>	C12 Conservation Ecology <i>Moderator: Jessica N. Fulgoni</i>	C03 Invertebrates <i>Moderator: Amy Rosemond</i>	C15 Population Ecology <i>Moderator: Checo Colon-Gaud</i>	C24 Eutrophication <i>Moderator: Chelsea Clifford</i>	2:00 PM - 2:15 PM
AN ECOLOGICAL CAUSAL ASSESSMENT OF TRIBUTARIES IN THE RED RIVER VALLEY, MANITOBA: IMPACTS OF AGRICULTURE AND HUMAN SETTLEMENTS Painter, Kristin J. ; Brua, Robert B.; Chambers, Patricia A.; Culp, Joseph M.; Rattan, Kim J.; Yates, Adam G.	ASSESSMENT OF GENETIC DIVERSITY AND STRUCTURE AMONG POPULATIONS OF EPIOBLASMA TRIQUETRA (BIVALVIA: UNIONIDAE) IN THE LAURENTIAN GREAT LAKES WATERSHED Beaver, Caitlin ; Woolnough, Daelyn; Zanatta, David	STAGES OF MACROINVERTEBRATE RECOVERY AFTER ABANDONED COAL MINE REMEDIATION IN A PENNSYLVANIA WATERSHED Janetski, David ; Graham, Cassie	A DECADEAL ASSESSMENT OF ANTHROPOGENIC IMPACTS TO STREAMS OF NORTHERN MICHIGAN Kashian, Donna ; Burtner, Ashley; Krabbenhoft, Corey	POPULATION GENETICS OF FRESHWATER SPONGES (PORIFERA: SPONGILLIDAE) AND SISYRIDAE (INSECTA: NEUROPTERA) OF THE UPPER-SUSQUEHANNA RIVER BASIN Rothfuss, Alyssa ; Heilveil, Jeffrey	HIPPOPOTAMUS POOL BIOGEOCHEMISTRY REVEALS TWO ALTERNATIVE STATES: AEROBIC AND ANAEROBIC Dutton, Christopher ; Subalusky, Amanda; Hamilton, Stephen; Jourdain, Ella C.; Rosi, Emma; Post, David	2:15 PM - 2:30 PM
ASSESSING THE EFFECTS OF URBAN DEVELOPMENT ON HYDROLOGY AND WATER QUALITY IN NORTHERN VIRGINIA STREAMS Knee, Karen ; Melone, Jacob; Friedel, Melanie; Weinstein, Jesse; Hyde, Harrison; Mukherjee, Nikita; Howard, Keeli	GENETIC EVIDENCE SUGGESTS MULTIPLE INTRODUCTIONS OF THE INVASIVE FRESHWATER SNAIL, MELANOIDES TUBERCULATA, IN FLORIDA, USA. Tolley-Jordan, Lori ; Wooten, Jessica; Chadwick, Michael	SHORT TERM BIOLOGICAL AND PHYSICOCHEMICAL EFFECTS OF PATCH-BURN GRAZING ON REMNANT TALLGRASS PRAIRIE STREAMS Fulgoni, Jessica ; Larson, Danelle; Jackson, Karen; Whiles, Matt; Dodds, Walter K.	INFLUENCE OF THERMAL REGIME ON THE LIFE HISTORIES OF ROCKY MOUNTAIN AQUATIC INSECTS: A FIELD TEST OF THE THERMAL EQUILIBRIUM HYPOTHESIS McCarty, Jennifer	MUTUALISM IN FRESHWATERS: CURRENT KNOWLEDGE AND FUTURE RESEARCH DIRECTIONS Peoples, Brandon ; Silknetter, Sam; Brown, Bryan; Creed, Robert; Frimpong, Emmanuel; Skelton, James	LITERATURE-BASED SYNTHESIS OF NUTRIENT STRESSOR-RESPONSE RELATIONSHIPS TO INFORM ASSESSMENT, MONITORING, AND CRITERIA DEVELOPMENT IN RIVERS AND STREAMS Bennett, Micah ; Schofield, Kate; Lee, Sylvia; Norton, Susan; Ridley, Caroline	2:30 PM - 2:45 PM
YESTERDAY IS HISTORY, TOMORROW IS A MYSTERY: QUANTIFICATION OF LONG-TERM NUTRIENT LEGACIES IN HUMAN-IMPACTED WATERSHEDS Basu, Nandita ; Van Meter, Kimberly; Van Cappellen, Philippe	TEMPORAL AND SPATIAL VARIATION IN PATTERNS OF BACTERIAL COMMUNITY COMPOSITION AND RELATED METABOLIC FUNCTIONS IN SPRING WATER Karczewski, Karsten ; Meyer, Elisabeth I.	THE LOSS OF FRESHWATER MEGAFAUNA He, Fengzhi ; Bremerich, Vanessa; David, Jonathan N. W.; Zarfl, Christiane; Hogan, Zeb; Tockner, Klement; Jähnig, Sonja C.	MACROINVERTEBRATE COMMUNITY TRANSITION FOLLOWING CHANGES IN THE THERMAL REGIME BELOW A LARGE DAM IN OREGON Murphy, Christina ; Johnson, Sherri; Gerth, William; Taylor, Gregory	UNCOVERING THE LIFE HISTORY AND PHENOLOGY OF PHYLLOICUS PULCHRUS, A CADDISFLY (TRICHOPTERA) IN TROPICAL RAINFOREST STREAMS Reyes-Torres, Limarie ; Ramirez, Alonso	SETTING SITE-SPECIFIC EUTROPHICATION STANDARDS FOR RESERVOIRS AND RUN-OF-THE-RIVER LAKES Bouchard, Jr., R. William	2:45 PM - 3:00 PM
BIOGEOCHEMICAL ASYNCHRONY: ECOSYSTEM DRIVERS OF CONCENTRATION-DISCHARGE DYNAMICS ACROSS TEMPORAL SCALES Van Meter, Kimberly ; Basu, Nandita	GENOMIC AND PHYSIOLOGICAL CHARACTERISTICS OF NOVEL ESCHERICHIA STRAINS ISOLATED FROM FRESH WATER SOURCES Best, Aaron ; Olgers, Amy; Peecher, Jacob; Slater, Adam; Smith, Shannon; Brokus, Sarah; Moen, Francesco; Payne, Chelsea; Wade, Randall; Pikaart, Michael	USING RADIO TELEMETRY TO TRACK SUMMER MOVEMENTS OF COMMON MUDPUPIPIES (NECTURUS MACULOSUS) IN A DISTURBED, URBAN LAKE Bilak, Jared ; Whiles, Matt; Warne, Robin; Willink, Philip	DRIFTING INTO THE FUTURE: ADVANCING METHODOLOGY FOR QUANTIFYING INVERTEBRATE DRIFT IN LOTIC ECOSYSTEMS UTILIZING NEXT-GEN CAMERA TECHNOLOGY Macias, Nicholas	SPATIAL AND TEMPORAL TRENDS OF PREY FISH GROWTH AND CONDITION IN LAKE HURON Doll, Jason ; Bence, James; Riley, Stephen; Roseman, Edward; O'Brien, Timothy	SIMILAR PROCESSES EXPLAIN WATER QUALITY IN ARTIFICIAL AND NATURAL US LAKES Clifford, Chelsea ; Heffernan, Jim	3:00 PM - 3:15 PM
MANAGEMENT OPTIONS FOR WATER QUALITY IMPROVEMENT IN THE MINNESOTA RIVER BASIN Finlay, Jacques ; Dolph, Christy; Hansen, Amy; Baker, Anna; Dalzell, Brent	THE RESPONSE OF LENTIC AQUATIC INVERTEBRATE ASSEMBLAGES TO SIMULATED CLIMATE CHANGE Bielski, Nicholas ; Orlofske, Jessica	CONSERVING RARE SPECIES CAN HAVE HIGH OPPORTUNITY COSTS FOR COMMON SPECIES Neeson, Thomas ; Doran, Patrick; Ferris, Michael; Fitzpatrick, Kimberly; Herbert, Matthew; Khoury, Mary; Moody, Allison; Ross, Jared; Yacobson, Eugene; McIntyre, Peter B.	INITIAL ASSESSMENT OF RATES OF CERCARIAE INFECTIONS IN HOST SNAIL POPULATIONS Akey, Nathaniel ; Luttenton, Mark	WHY ADULT MAYFLIES GET SMALLER AS TEMPERATURE WARMS Sweeney, Bernard ; Funk, David; Buchwalter, David; Jackson, John	AMERICAN FALLS RESERVOIR, IDAHO, USA 2001-2016: TIDBITS OF WISDOM GARNERED FROM A FLOOD OF DATA Cornell, Jennifer	3:15 PM - 3:30 PM
COMMUNITY AND STAKEHOLDER ENGAGEMENT FOR NATURE BASED SOLUTIONS PLANNING TO REDUCE NUTRIENT EXPORT TO COASTAL WATERS Burns, Sara	THE PREVALENCE OF ANTIBIOTIC RESISTANCE GENES IN US WATERWAYS AND THEIR RELATIONSHIP TO WATER QUALITY AND LAND USE INDICATORS Hill, Ryan ; Keely, Scott; Brinkman, Nichole; Anneken, Emily; Leibowitz, Scott; Jahne, Michael; Martin, Roy	EFFECTS OF RIVERINE RESERVES ON FISH ABUNDANCE, BIOMASS, AND TROPHIC DYNAMICS Koning, Aaron ; McIntyre, Peter B.		POPULATION GENETIC STRUCTURE AND MORPHOLOGICAL VARIATION OF THE ROUND ROCKSNAIL (LEPTOXIS AMPLA) A FEDERALLY THREATENED SPECIES IN THE CAHABA RIVER OF AL, USA. Helms, Brian ; Whelan, Nathan; Siple, Breana; Weber, Jennifer; Tolley-Jordan, Lori; Halanaych, Kenneth		3:30 PM - 3:45 PM



Posters

The official Poster Session/Taxonomy Fair time will be Wednesday, May 23, from 1:30 – 4:00 pm in Grand Riverview Ballroom A.

C01 Algae

- 1 **Austin Morehouse**, Nao Hariguchi, Alex Wood, Evan Corteville, Robert Verb, Leslie Riley, Ken Oswald
SPATIAL VARIATION OF PERIPHYTON BETWEEN RESTORED AND UNRESTORED STREAM SEGMENTS
- 2 **Crystal Scales**, Zachary Bragg, Robert Verb, Leslie Riley
THE INFLUENCE OF GLACIAL ERRATICS AS A HABITAT MODIFIER FOR PERIPHYTON IN A LOW ORDER LOTIC SYSTEM
- 3 **Deven Korte**, David Janetski
TOXICITY OF THE NOVEL ANTIMICROBIAL AGENT BENZETHONIUM CHLORIDE TO STREAM BIOFILM
- 4 **Morgan Vis**, Daniel Wolf
MULTI-MARKER METABARCODING ASSESSMENT OF BIODIVERSITY WITHIN STREAM BIOFILM COMMUNITIES ALONG AN ACID MINE DRAINAGE RECOVERY GRADIENT
- 5 **Aaron Gordon-Weaver**, Corey Conville, Steven Rier, Jennifer Tuomisto
PATTERNS IN POLYPHOSPHATE STORAGE ACROSS A GRADIENT OF PHOSPHOROUS ENRICHMENT

C02 Fish and Other Aquatic Vertebrates

- 6 **Rubina Mondal**, Anuradha Bhat
COMPARATIVE ECOLOGY OF FRESHWATER FISH COMMUNITIES IN VINDHYA-SATPURA RIFT VALLEY AND HIMALAYAN FOOTHILLS IN INDIA
- 7 **Madison Bowe**, Andy Miller, Shannon Brewer
EFFECT OF SUSPENDED BENTONITE SEDIMENT ON FOUR SPECIES OF STREAM FISH (ETHEOSTOMA SPECTABILE, ETHEOSTOMA STIGMAEUM, NOTROPIS ATERINOIDES, AND NOTURUS EXILIS)
- 8 **Robert Roose**, Corey Krabbenhoft, Donna Kashian
EFFECT OF HABITAT QUALITY ON ROUND GOBY (NEOGOBUS MELANOSTOMUS) AND WHITE SUCKER (CATOSTOMUS COMMERSONI) IN STREAMS
- 9 **Mike Mendel**, Jeff Niehaus, Rhonda Mendel, Jamie Krejsa
THE DIET OF SUNFISH FORAGING IN THE MILFOIL BEDS OF THE MENOMINEE RIVER WATERSHED, MICHIGAN
- 10 **Rachel Brinkley**, James Paris, Colden Baxter
SEGREGATED HABITAT USE BY JUVENILE AND ADULT TROUT IN A FLOODPLAIN SPRINGBROOK
- 11 **Adriana Marcela Forero Céspedes**, Francisco Antonio Villa Navarro
EFFECT OF ELEVATION IN ASSEMBLAGE FISH IN HIGH MOUNTAIN STREAMS, COLOMBIA
- 12 **Jessica Rettig**
INVASION BY A NATIVE SPECIES: CONSEQUENCES FOR POPULATION DYNAMICS AND DIET OF A NON-NATIVE SPECIES.
- 13 **Devin McClain**, Eli Beal, David Janetski
ASSESSMENT OF TROPHIC INTERACTIONS AND DIETARY OVERLAP BETWEEN SMALLMOUTH BASS AND BROWN TROUT IN A PENNSYLVANIA STREAM

- 14 **Corinthia Black**, Eric Bauer, David Werneke, Jon Armbruster, Brian Helms
DROUGHT EFFECTS ON ECOLOGICAL ENDPOINT CURVES IN A BIODIVERSITY HOTSPOT
- 15 **Jennifer Smith**, Abigail Benson, Jason Dunham, Steffany Yamada, Meryl Mims
FUNCTIONAL AND GEOGRAPHIC COMPONENTS OF RISK AND RARITY FOR STREAM FISHES ACROSS THE UNITED STATES
- 16 **Jack Torresdal**, Rebecca Fritz, Jane Marks, Benjamin Koch
QUANTIFYING BIOTIC AND ABIOTIC HABITAT FEATURES TO GUIDE REPATRIATION OF SOUTHWESTERN NATIVE FISHES
- 17 **James Eddings**, Emily Campbell, John Olson, Torrey Rodgers, Karen Mock, Charles Hawkins
ASSESSING THE UTILITY OF ENVIRONMENTAL DNA IN PREDICTING THE DISTRIBUTION OF ALASKAN FISH SPECIES
- 18 **Brooke Lindell**
VARIABILITY OF TRACE-ELEMENT ACCUMULATION AMONG INVERTIVOROUS FISHES FROM A COASTAL PLAIN STREAM CONTAMINATED BY COAL COMBUSTION WASTE
- 19 **Stephanie Sickler**, Sean Maher
FISH COMMUNITY ASSEMBLAGES IN THE OZARKS OF SOUTHERN MISSOURI
- 20 **Yoshinori Taniguchi**, Yuya Nagasaki
SUSTAINABLE FRESHWATER RECREATIONAL FISHERY WITHOUT SUPPLEMENTAL STOCKING FARMED FISH IN JAPAN
- 21 **Tsubasa Hamashima**, Yoshinori Taniguchi
EFFECTS OF EXPERIMENTAL COVERING AND RESTORATION OF RIPARIAN GRASS ON TERRESTRIAL INVERTEBRATES SUPPLY AND AQUATIC ANIMAL COMMUNITIES
- 22 **Jacob Sawecki**, Emily Miros, Peter Dijkstra
EXTREME PARENTING: OXIDATIVE STRESS AS A MEDIATOR OF THE TRADEOFF BETWEEN PARENTAL CARE AND FUTURE REPRODUCTIVE SUCCESS IN A MOUTHBROODING CICHLID FISH

C03 Invertebrates

- 23 **Truman Sherck**, Greg Rau
SUMMARY OF INSECT EMERGENCE FROM FINDLEY LAKE IN THE CONIFEROUS FOREST OF THE CASCADE MOUNTAINS, USA
- 24 **Adedolapo Ayoade**, Olajumoke Nathaniel
COMPOSITION AND DIVERSITY OF MACROINVERTEBRATES OF A TROPICAL RESERVOIR, SOUTHWESTERN NIGERIA
- 25 **Zachary Maguire**
LEGACY EFFECTS OF ABANDONED ECOSYSTEM ENGINEERING STRUCTURES ON STREAM HYDRAULICS
- 26 **José Mello**, Daniel Abrahão, Matt Whiles, Juliano Corbi
ESTIMATES OF NON-TANYPODINAE CHIRONOMID PRODUCTION IN THREE NEOTROPICAL HEADWATER STREAMS IN THE BRAZILIAN SAVANNA
- 27 **Sarah Crites**, Joseph Milanoivch, Jennifer Piacente, Joseph Milanovich, Martin B. Berg
COMPARISONS OF ZOOPLANKTON COMMUNITIES ACROSS GOLF COURSE AND FOREST PRESERVE LENTIC ECOSYSTEMS
- 28 **Isabella Lentini**, Joseph Milanoivch, Jennifer Piacente, Martin B. Berg
COMPARISON OF MACROINVERTEBRATE COMMUNITIES ACROSS GOLF COURSE AND FOREST PRESERVE LENTIC ECOSYSTEMS
- 29 **Nayla Rhein**, Fredric Govedich, Bonnie Bain
EFFECT OF SALINITY ON THE HATCHING OF BRANCHINECTA LINDAHLI PACKARD, 1883

- 30 **Katie Heiden**, Matt Whiles
AQUATIC INSECT EMERGENCE PRODUCTION FROM HYDROLOGICALLY ALTERED SECTIONS OF A LOW GRADIENT MIDWESTERN RIVER
- 31 **Rachel Egly**, Eric Larson
DISTRIBUTIONAL DECLINES OF TWO CRAYFISHES ENDEMIC TO THE WESTERN UNITED STATES DOCUMENTED BY COMPARING SPECIES DISTRIBUTION MODELING TO FIELD SAMPLING
- 32 **Emily Berezowski**, Jeffrey Heilveil
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VARGAS, Marisa	C09 Wetland Ecology
VARNADO, Wendy	C08 Urban Ecology
VASQUEZ, Adrian	C25 Food Webs C17 Bioassessment, C08 Urban Ecology
VASSELON, Valentin	S18 Aquatic Biodiversity Surveillance Using Environmental Genomics
VAUGHAN, Mathew	S16 Ecological Stoichiometry as a Bridge Across Disciplinary Boundaries in Freshwater Science
VAUGHN, Caryn	C11 Community Ecology, C25 Food Webs, C04 Microbial Ecology
VAUGHN, Caryn C.	S06 Social-Ecological Freshwater Systems and Ecosystem Services C11 Community Ecology C25 Food Webs, C28 Land-Water Interfaces
VAUTIER, Camille	S10 Land-water Boundaries: Towards Harmonizing Hydrological and Biogeochemical Concepts in Riparian Zones Across Ecoregions
VEACH, Allison	C04 Microbial Ecology
VEGA, Mariely	C22 Disturbance
VÉLEZ, Maria	S20 Emerging Approaches to Modeling Population and Community Dynamics in Fresh Waters
VENKATESH, Ajit	C35 Systematics and Taxonomy
VENKITESWARAN, Jason J.	C27 Landuse and Non-Point Source Impacts
VENTER, Chris	C35 Systematics and Taxonomy
VERB, Robert	C01 Algae, P2, C03 Invertebrates, C11 Community Ecology, P106, P100, C16 Restoration Ecology, P128
VERDONSCHOT, Piet F.M.	S21 Navigating Between Ecosystem Structure and Functioning in Research and Management, S22 Transcending Aquatic-terrestrial Boundaries: Ecology, Conservation and Management of Temporary Freshwaters
VERDONSCHOT, Ralf C.M.	S21 Navigating Between Ecosystem Structure and Functioning in Research and Management, S22 Transcending Aquatic-terrestrial Boundaries: Ecology, Conservation and Management of Temporary Freshwaters
VIDON, Philippe	C10 Biogeochemistry, S10 Land-water Boundaries: Towards Harmonizing Hydrological and Biogeochemical Concepts in Riparian Zones Across Ecoregions
VIGGIANO, Maria	C22 Disturbance
VILLA NAVARRO, Francisco Antonio	C02 Fish and Other Aquatic Vertebrates
VILLAMAGNA, Amy	S14 Crossing Brook Trout Boundaries: Interdisciplinary Approaches to Salvelinus Fontinalis Research, Management, and Outreach
VILLAMARIN, Francisco	C25 Food Webs
VILLENEUVE, Bertrand	S25 Effects of Multi-stressors in Stream Ecology Across Regional Landscapes and Mesocosm Studies
VINCENT, Anna	S26 Ecological Perspectives on the Movement and Transformation of Anthropogenic Materials in Freshwaters, P250, P245
VINSON, David	S28 Reframing the Science of Urbanized Headwater Streams
VINYOLÉS, Dolors	S22 Transcending Aquatic-terrestrial Boundaries: Ecology, Conservation and Management of Temporary Freshwaters
VIOLIN, Christy	C11 Community Ecology
VIS, Morgan	C17 Bioassessment, C01 Algae
VITO, Christopher	C05 Unionid Ecology
VLAH, Michael	C10 Biogeochemistry
VOGLER, Helena	C14 Hydroecology
VOIGHT, Rachel	C10 Biogeochemistry



VOLZ, Devon	C09 Wetland Ecology	WATTS, Robyn	C21 Communicating Science
VON RUDEN, Kyle	C26 Invasive Species	WEATHERBEE, Courtney	S03 Death and Decomposition in Aquatic Ecosystems
VON SCHILLER, Daniel	S21 Navigating Between Ecosystem Structure and Functioning in Research and Management	WEATHERHOLT, Riley	C10 Biogeochemistry
VOSS, Kristofor	C20 Climate Change	WEATHERS, Kathleen	S29 Scholarship of Teaching and Learning in Freshwater Science, C07 Lentic Ecology
W. SPARKS, Daniel	C16 Restoration Ecology	WEAVER, Paul	C13 Ecotoxicology
WADE, Daniel	S18 Aquatic Biodiversity Surveillance Using Environmental Genomics, C24 Eutrophication	WEAVER, Sophie	S27 Green meets Brown: Ecological Significance of Interacting Autotrophy and Heterotrophy in Freshwaters
WADE, Randall	C30 Molecular Ecology, S18 Aquatic Biodiversity Surveillance Using Environmental Genomics, S29 Scholarship of Teaching and Learning in Freshwater Science, C24 Eutrophication	WEBB, Colleen	S21 Navigating Between Ecosystem Structure and Functioning in Research and Management
WADSWORTH, Zachary	C25 Food Webs	WEBB, J Angus	C21 Communicating Science
WAGNER, Katie	S16 Ecological Stoichiometry as a Bridge Across Disciplinary Boundaries in Freshwater Science	WEBB, J. Angus	C20 Climate Change
WAGNER, Tyler	C14 Hydroecology, S09 Spatial Aspects of Freshwater Ecology: Understanding, Managing, Predicting, S14 Crossing Brook Trout Boundaries: Interdisciplinary Approaches to Salvelinus Fontinalis Research, Management, and Outreach	WEBB, Jenna R.	S04 Expanding regulatory frameworks to include detrital responses in streams
WAHL, David	S09 Spatial Aspects of Freshwater Ecology: Understanding, Managing, Predicting	WEBER, Jennifer	C15 Population Ecology
WAITE, Ian	S07 Landscape Influences on Freshwater Habitats and Biological Assemblages, S21 Navigating Between Ecosystem Structure and Functioning in Research and Management, S25 Effects of Multi-stressors in Stream Ecology Across Regional Landscapes and Mesocosm Studies	WEBER, Lisa	S28 Reframing the Science of Urbanized Headwater Streams
WALKER, Edward	C04 Microbial Ecology	WEBER, Peter	C10 Biogeochemistry
WALKER, Lindsey E.	S29 Scholarship of Teaching and Learning in Freshwater Science	WEBSTER, Jackson R.	C28 Land-Water Interfaces
WALLACE, John	S03 Death and Decomposition in Aquatic Ecosystems	WEGNER, Justin	S19 Aquatic Invasive Species in the Laurentian Great Lakes Region
WALLER, MacKenzie	C27 Landuse and Non-Point Source Impacts	WEIDER, Lawrence	S16 Ecological Stoichiometry as a Bridge Across Disciplinary Boundaries in Freshwater Science
WALLS, Felisha	C11 Community Ecology, C25 Food Webs	WEIDNER, Kelsey	C11 Community Ecology
WALQUIST, Ryan	S03 Death and Decomposition in Aquatic Ecosystems	WEINSTEIN, Jesse	C27 Landuse and Non-Point Source Impacts
WALTERS, Annika	S16 Ecological Stoichiometry as a Bridge Across Disciplinary Boundaries in Freshwater Science	WEINSTEIN, Spencer	C13 Ecotoxicology
WALTERS, Ashley D.	C05 Unionid Ecology	WELLS, Bradley	S14 Crossing Brook Trout Boundaries: Interdisciplinary Approaches to Salvelinus fontinalis Research, Management, and Outreach
WALTERS, David	C13 Ecotoxicology, C28 Land-Water Interfaces,	WELLS, Samuel	C09 Wetland Ecology
WANDER, Heather	C24 Eutrophication	WELLS, Spencer	C09 Wetland Ecology
WANG, Binbin	C01 Algae	WELSH, Molly	S10 Land-water Boundaries: Towards Harmonizing Hydrological and Biogeochemical Concepts in Riparian Zones Across Ecoregions
WANG, Jun	C20 Climate Change	WELSH, Zasha	C31 Organic Matter Processing
WANG, Yu-Chen	C27 Landuse and Non-Point Source Impacts, S08 Re-eutrophication of Lake Erie: Causes, Consequences, and Possible Solutions	WELTER, Jill	C01 Algae, S16 Ecological Stoichiometry as a Bridge Across Disciplinary Boundaries in Freshwater Science, S25 Effects of Multi-stressors in Stream Ecology Across Regional Landscapes and Mesocosm Studies
WANG, Zining	C20 Climate Change, P148	WELTY, Claire	S10 Land-water Boundaries: Towards Harmonizing Hydrological and Biogeochemical Concepts in Riparian Zones Across Ecoregions
WANTY, Richard	C28 Land-Water Interfaces	WENGER, Seth	C22 Disturbance, C28 Land-Water Interfaces, C14 Hydroecology, S03 Death and Decomposition in Aquatic Ecosystems, S04 Expanding regulatory frameworks to include detrital responses in streams
WARBURTON, Helen	C25 Food Webs	WERNEKE, David	C02 Fish and Other Aquatic Vertebrates
WARD, Douglas	C25 Food Webs	WERNER, Earl	C11 Community Ecology
WARD, Josh	S28 Reframing the Science of Urbanized Headwater Streams	WESNER, Jeff	C13 Ecotoxicology, C25 Food Webs,
WARD, Nicole	C07 Lentic Ecology	WESSELS, Dana	C11 Community Ecology
WARFA, Abdi-Rizak M.	S29 Scholarship of Teaching and Learning in Freshwater Science	WEST, Derek	C10 Biogeochemistry
WARNE, Robin	C12 Conservation Ecology	WESTENBROEK, Stephen	S02 The Great Lakes Restoration Initiative: Interdisciplinary Approaches to Assessing Beneficial Use Impairments in Areas of Concern
WASHKO, Susan	C03 Invertebrates, C37 Stoichiometry	WESTFALL, Joshua	S23 The Evolving Science Supporting Biological Assessments and Criteria
WASSENS, Skye	C21 Communicating Science	WESTWOOD, Chris	S22 Transcending Aquatic-terrestrial Boundaries: Ecology, Conservation and Management of Temporary Freshwaters
WATERS, Matthew	C26 Invasive Species, S27 Green Meets Brown: Ecological Significance of Interacting Autotrophy and Heterotrophy in Freshwaters	WETZELL, Raquel	C11 Community Ecology, C25 Food Webs
WATSON, Annette	S12 Status and Trends in Arctic Freshwater Biodiversity Across the Circumpolar Region	WHEELER, Michele	S15 Crossing Boundaries: Watershed-tributary-lake Exchanges in the Great Lakes Region
WATTS, Alison	S18 Aquatic Biodiversity Surveillance Using Environmental Genomics	WHELAN, Nathan	C15 Population Ecology

WHILES, Matt	C03 Invertebrates, C10 Biogeochemistry, C11 Community Ecology, C12 Conservation Ecology, S22 Transcending Aquatic-terrestrial Boundaries: Ecology, Conservation and Management of Temporary Freshwaters, , P26
WHITE, Brendon	S27 Green Meets Brown: Ecological Significance of Interacting Autotrophy and Heterotrophy in Freshwaters
WHITE, James	C14 Hydroecology
WHITE, Shannon	S14 Crossing Brook Trout Boundaries: Interdisciplinary Approaches to Salvelinus Fontinalis Research, Management, and Outreach
WHITMAN, Matthew	S12 Status and Trends in Arctic Freshwater Biodiversity Across the Circumpolar Region
WHITNEY, Christopher	C10 Biogeochemistry
WHITNEY, James	C02 Fish and Other Aquatic Vertebrates, S09 Spatial Aspects of Freshwater Ecology: Understanding, Managing, Predicting
WHORLEY, Sarah	S29 Scholarship of Teaching and Learning in Freshwater Science
WICKER, Daniel	C12 Conservation Ecology
WICKS-ARSHACK, Adam	S11 At the Confluence of Freshwater Science and the Humanities
WIEFERICH, Daniel	S07 Landscape Influences on Freshwater Habitats and Biological Assemblages
WIGDAHL-PERRY, Courtney	S29 Scholarship of Teaching and Learning in Freshwater Science, C24 Eutrophication
WILEY, Mike	S07 Landscape Influences on Freshwater Habitats and Biological Assemblages
WILKES, Martin	C03 Invertebrates
WILKINSON, Grace	S16 Ecological Stoichiometry as a Bridge Across Disciplinary Boundaries in Freshwater Science
WILLIAMS, Clayton	C27 Landuse and Non-Point Source Impacts
WILLIAMS, Colin	S09 Spatial Aspects of Freshwater Ecology: Understanding, Managing, Predicting
WILLIAMS, Jeff	C02 Fish and Other Aquatic Vertebrates
WILLIAMS, Logan	C08 Urban Ecology
WILLIAMS, Thomas	S04 Expanding regulatory frameworks to include detrital responses in streams
WILLIAMSON, Craig	S30 Environmental and Ecological Roles of Dissolved Organic Matter in Freshwater Ecosystem
WILLINK, Philip	C12 Conservation Ecology
WILMES, Marcy Knoll	C21 Communicating Science
WILSON, Karen	S01 Dams, Big Data, and Meta-analyses
WINEBARGER, Monica M.	S16 Ecological Stoichiometry as a Bridge Across Disciplinary Boundaries in Freshwater Science, C05 Unionid Ecology
WINEMILLER, Kirk	S05 Damming the Amazon - Hydropower Proliferation in the World's Largest River System, S07 Landscape Influences on Freshwater Habitats and Biological Assemblages
WINGENROTH, Jordan	S22 Transcending Aquatic-terrestrial Boundaries: Ecology, Conservation and Management of Temporary Freshwaters
WIPFLI, Mark	C09 Wetland Ecology
WISENBAKER, Karin	S23 The Evolving Science Supporting Biological Assessments and Criteria
WISNOSKI, Nathan	S20 Emerging Approaches to Modeling Population and Community Dynamics in Fresh Waters
WISSINGER, Scott	C37 Stoichiometry
WITT, Jonathan	C17 Bioassessment, S21 Navigating Between Ecosystem Structure and Functioning in Research and Management
WOELFLE-ERSKINE, Cleo	C20 Climate Change
WOHL, Ellen	C10 Biogeochemistry

WOIAK, Zeb	C26 Invasive Species
WOLF, Daniel	C01 Algae
WOLF, Ruth	C28 Land-Water Interfaces
WOLFF, Brian	S18 Aquatic Biodiversity Surveillance Using Environmental Genomics, S26 Ecological Perspectives on the Movement and Transformation of Anthropogenic Materials in Freshwaters
WOLLHEIM, Wilfred	C10 Biogeochemistry
WOLLMAN, Katherine M.	C17 Bioassessment, S29 Scholarship of Teaching and Learning in Freshwater Science, C05 Unionid Ecology
WOLOCK, David	C20 Climate Change
WOLOSCHUK, John	C09 Wetland Ecology C28 Land-Water Interfaces
WOO, He-Myong	S11 At the Confluence of Freshwater Science and the Humanities
WOOD, Alex	C01 Algae
WOOD, Alexander	C16 Restoration Ecology, P128
WOOD, James	S07 Landscape Influences on Freshwater Habitats and Biological Assemblages, S04 Expanding regulatory frameworks to include detrital responses in streams
WOOD, Jo	S13 Ecoacoustic Methods for Continuous Freshwater Monitoring
WOOD, Paul	C03 Invertebrates, C14 Hydroecology, S01 Dams, Big Data, and Meta-analyses
WOOD, Susie	C18 Biodiversity
WOODS, Taylor	S11 At the Confluence of Freshwater Science and the Humanities
WOODWARD, Guy	C20 Climate Change, C31 Organic Matter Processing
WOOLNOUGH, Daelyn	C05 Unionid Ecology, C30 Molecular Ecology
WOOTEN, Jessica	C30 Molecular Ecology
WREGGE, Coleson	C17 Bioassessment
WU, Jianyong	S06 Social-Ecological Freshwater Systems and Ecosystem Services
WU, Naicheng	C14 Hydroecology
WU, Xiaojian	S05 Damming the Amazon - Hydropower Proliferation in the World's Largest River System
WUBALEM, Atalel	C27 Landuse and Non-Point Source Impacts
WULFF, Gina	C25 Food Webs
WYMORE, Adam	C10 Biogeochemistry, C31 Organic Matter Processing, S04 Expanding Regulatory Frameworks to Include Detrital Responses in Streams,
WYNNE, Danielle	S29 Scholarship of Teaching and Learning in Freshwater Science
XU, Huacheng	S30 Environmental and Ecological Roles of Dissolved Organic Matter in Freshwater Ecosystem
YACKULIC, Charles	C10 Biogeochemistry, S01 Dams, Big Data, and Meta-analyses
YACOBSON, Eugene	C12 Conservation Ecology
YAMADA, Steffany	C02 Fish and Other Aquatic Vertebrates
YAMAZAKI, Gordon	S01 Dams, Big Data, and Meta-analyses
YARNELL, Sarah	C14 Hydroecology, S23 The Evolving Science Supporting Biological Assessments and Criteria
YASARER, Lindsey	C10 Biogeochemistry
YATES, Adam G.	C27 Landuse and Non-Point Source Impacts, S07 Landscape Influences on Freshwater Habitats and Biological Assemblages, S23 The Evolving Science Supporting Biological Assessments and Criteria, C13 Ecotoxicology, S04 Expanding regulatory frameworks to include detrital responses in streams
YE, Qifeng	C21 Communicating Science
YEE, Donald	C08 Urban Ecology
YERRAMSETTY, Divya	C08 Urban Ecology
YOKOTA, Kiyoko	S29 Scholarship of Teaching and Learning in Freshwater Science, C24 Eutrophication



YUAN, Lester	S18 Aquatic Biodiversity Surveillance Using Environmental Genomics, S23 The Evolving Science Supporting Biological Assessments and Criteria
YUAN, Shuai	S09 Spatial Aspects of Freshwater Ecology: Understanding, Managing, Predicting
YUREWICZ, Kerry	C11 Community Ecology, C03 Invertebrates
ZACK, Conrad	C16 Restoration Ecology
ZAIDEL, Peter	S01 Dams, Big Data, and Meta-analyses, S28 Reframing the Science of Urbanized Headwater Streams
ZAMANI, Haniyeh	C18 Biodiversity
ZAMORA-MUÑOZ, Carmen	S22 Transcending Aquatic-terrestrial Boundaries: Ecology, Conservation and Management of Temporary Freshwaters
ZANATTA, David	C30 Molecular Ecology, P181
ZANDONA, Eugenia	C16 Restoration Ecology, S10 Land-water Boundaries: Towards Harmonizing Hydrological and Biogeochemical Concepts in Riparian Zones Across Ecoregions
ZARFL, Christiane	C12 Conservation Ecology, S06 Social-Ecological Freshwater Systems and Ecosystem Services
ZARNETSKÉ, Jay	C10 Biogeochemistry, C14 Hydroecology, C20 Climate Change, S10 Land-water Boundaries: Towards Harmonizing Hydrological and Biogeochemical Concepts in Riparian Zones Across Ecoregions, P89
ZARNETSKÉ, Phoebe	C18 Biodiversity
ZASPEL, Jennifer	C35 Systematics and Taxonomy
ZEGLIN, Lydia	C10 Biogeochemistry, C20 Climate Change
ZHAN, Hongbin	S09 Spatial Aspects of Freshwater Ecology: Understanding, Managing, Predicting
ZHAO, Kaiguang	S07 Landscape Influences on Freshwater Habitats and Biological Assemblages
ZHENG, Lei	C13 Ecotoxicology
ZHU, Weixing	S28 Reframing the Science of Urbanized Headwater Streams
ZHU, Yonghui	S09 Spatial Aspects of Freshwater Ecology: Understanding, Managing, Predicting
ZIMMER, Margaret	S22 Transcending Aquatic-terrestrial Boundaries: Ecology, Conservation and Management of Temporary Freshwaters
ZIMMERMAN, Christian	S12 Status and Trends in Arctic Freshwater Biodiversity Across the Circumpolar Region
ZIMMERMAN, Julie	C14 Hydroecology, S23 The Evolving Science Supporting Biological Assessments and Criteria
ZIPPER, Carl	C13 Ecotoxicology
ZOMER, Frank	S15 Crossing Boundaries: Watershed-tributary-lake Exchanges in the Great Lakes Region
ZUBROD, Jochen	S04 Expanding Regulatory Frameworks to Include Detrital Responses in Streams
ZUELLIG, Robert	C14 Hydroecology
ZYDLEWSKI, Joseph	S01 Dams, Big Data, and Meta-analyses



TOP:

Ann Rosenthal, *LUNA Banner*.

Produced through a community ecoliteracy and art program in Pittsburgh, PA.
Presenter for Special Session II.

BOTTOM:

Sookkyung Cho

Performance of Schumann's Symphonic Etudes, Grand Valley State University, 2017.
Presenter for Special Session II.



RIVERS AND CULTURES

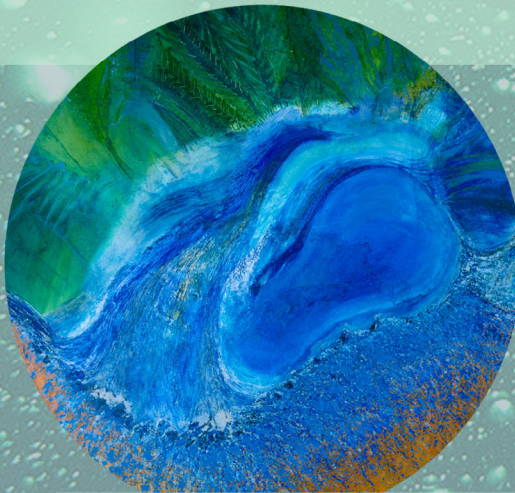
AN EVENING OF PERFORMANCE & FILM

Monday, Grand Ballroom, 7:30 – 10:15pm

Upriver
A Watershed Film

A special evening of art/science collaborations featuring presenters from Special Session 11 in a live dance and original music performance and several award-winning short films.

**Mapping
the River**



Eaux de Trois



Details at <http://sfsannualmeeting.org/s11.cfm>

**While the
River Sings**



Bagmati





Translational Ecology in Freshwater Science

Freshwater resources critically support ecosystem and human health. Future projections include widespread scarcity in some areas, and excess in others. Human impacts on freshwater influence both quantity (e.g., dams, groundwater withdrawal) and quality (e.g., land use change, contaminant delivery). Climate change exacerbates these influences by altering temperatures, land cover, precipitation and runoff patterns, and the abundance, distribution, and diversity of aquatic organisms.

In the face of continuing environmental change and the magnitude of its complex and interacting effects on global freshwater, **Translational Ecology (TE)** provides a potential roadmap for freshwater science to inform real world decision-making. The foundational principles of TE include interdisciplinary **collaboration**, multi-directional **engagement**, long-term **commitment**, iterative **communication**, transparent and representative **process**, and a **decision context** that leads to actionable outcomes. Freshwater science is ideally suited for TE, and while we may have called it by other names, our community has a track record of providing some of the most compelling examples of TE success.

At SFS 2019, we hope you'll share experiences, opportunities, and outcomes from translational ecology in freshwater science. Embracing the TE approach is challenging, it's not for everyone, and not all efforts are successful. But what can we learn when TE works? Moreover, what are the benefits for training the next generation of scientists? Often the translation of freshwater research happens post hoc; we'll explore how outcomes can change when TE is part of the research design process, and partnerships are made early in the research lifecycle.

Special sessions at SFS 2019 will highlight examples of novel interdisciplinary engagement, uses of the iterative process of research co-production, and the challenges and benefits of user-inspired, translational research, bridging gaps between management and policy. With freshwater as our touchstone, we hope that SFS 2019 will foster a conversation that will inform decision-making at the nexus of freshwater and environmental change that can help sustain the freshwater ecosystems of our future. See you in Salt Lake City!

About the 2019 Meeting Logo

Scientist and Artist **Vanessa Verstraete** designed our 2019 Meeting Logo. Since finishing her BS in Biology from Wayne State University, she is exploring advanced studies in scientific illustration, a perfect fit for someone who has equal passion for the sciences and the arts. She hopes to pursue a career as a freelance illustrator for scientists and medical professionals around the world. The 2019 logo was inspired by the interdisciplinary nature of freshwater science. Vanessa wanted to emphasize this in a simple way, while incorporating elements that represent our 2019 setting in Salt Lake City, Utah. Her design includes a Quaking Aspen (*Populus tremuloides*) leaf, which is the Utah State Tree, and her dragonfly was inspired by the western Flame Skimmer (*Libellula saturata*). Each major element—the water droplet, leaf, and dragonfly—represent different focus areas of freshwater science, and the overlap symbolizes their critical interaction.

2019 Annual Meeting Schedule

Sunday May 19, 2019:

Workshops and
Board/Committee Meetings
Welcome Mixer/Awards

Monday, May 20 —

Thursday, May 23:

SFS Annual Meeting
Contributed and Special
Sessions, Mixers,
Special Events

CONFERENCE VENUE:

Salt Palace Convention Center
100 South West Temple
Salt Lake City, UT 84101

CONFERENCE HOTELS:

Hotel RL Salt Lake
161 W. 600 S.
Salt Lake City, UT 84101

Salt Lake Plaza Hotel
Temple Square
122 W. South Temple
Salt Lake City, UT 84101

Hilton Salt Lake City Center
255 S. West Temple
Salt Lake City, UT 84101

Radisson Hotel
Salt Lake City Downtown
215 W. South Temple
Salt Lake City, UT 84101



Interested in helping to create a great SFS 2019? Be part of the Program Committee by contacting sfsmembership@usu.edu or reach out to Jennifer Tank and Todd Royer (incoming President and Vice President) here at the meeting. For more information, visit the society's NEW website at freshwater-science.org or sfsAnnualMeeting.org