

SFS 2019 Oral Presentation

by Hamdhani Hamdhani

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2019 Annual Meeting



Society for Freshwater Science

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Registration and Check-In Information

Registration and check in for the meeting will be available all week in the North Foyer of the Salt Palace. 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 19—4:00pm to 10:00pm

Monday, May 20—8:00am to 11:00pm

Tuesday, May 21—8:00am to 7:00pm

Wednesday, May 22—8:00am to 4:00pm

Thursday, May 23—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, CVs, 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 *SFS2019*, no password needed.

CMU

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**Complex Issues,
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*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
se.cmich.edu/iglr*



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/>.

For more information visit freshwater-science.org or

[sfsAnnualMeeting.org](https://freshwater-science.org/)

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, Translation Ecology (TE) provides a potential roadmap for freshwater science to inform real world decision-making. The foundational principles of TE include interdisciplinary collaboration, multidirectional 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.

Find Us On Twitter

<https://twitter.com/benthosnews>

#2019SFS

Meeting Organizers

2019 Annual Meeting

President

Jennifer Tank

Annual Meeting Committee

Nick Aumen (*Chair*)

Jennifer Tank (*Plenary*)

Todd Royer (*Plenary*)

Michelle Baker (*Plenary*)

Laura Johnson (*Special Sessions*)

Denise Bruesewitz (*Special Sessions*)

Geoff Poole (*Abstract Czar*)

Jeff Ostermiller (*Field Trips*)

Andy Leidolf (*Sponsorship*)

AJ Reisinger

Local Arrangements Subcommittee

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Benjamin W. Abbott (*5K Run*)

Sophia Bonjour

Rebecca J. Frei

Peter Levi (*5K Run*)

Angie Merritt

Deni Murray

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Bizzy Berg (*Live Auction Chair*)

Lienne Sethna (*SRC Workshop Chair*)

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Andrea (Andi) Fitzgibbon (*Merchandise Co-Chair*)

Raissa Mendonca (*Merchandise Co-Chair*)

Steven Plont (*Undergrad Awards Chair*)

Lisa Kim (*Social Media Chair*)

Jose Sanchez (*Education and Diversity Chair*)

Jack McLaren (*Local Coordinator*)

Early Career Development

Zacchaeus Compson (*Chair*)

Natalie Griffiths

Erin Hotchkiss

Meryl Mims

PJ Torres

Ashley Helton

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Marc Peipoch

Pablo E. Gutiérrez Fonseca

Allison Veach

Erin Larson

Society Officers & Information

Executive Committee

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Betsy Colburn (*Chair Finance Com*)

Patina Mendez (*Past Chair of Ed & Diversity Com*)

Andrew Sanders (*SRC Rep*)

Andy Leidolf (*SFS Exec Director*)

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

<https://guidebook.com/g/sfs2019/>

Facebook

<https://facebook.com/FreshwaterScience>

Twitter

<https://twitter.com/benthosnews>
#2019SFS

Conference Planner/ Meeting Management

USU Event Services

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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 for 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 (Jordyn Jensen).
- Notification can also occur by emailing your concern to the SFS Executive Director or our conference services representative (exec.director@freshwater-science.org or jordyn.jensen@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

Wednesday – Early Morning Oral Presentation

SESSIONS

	150 G	150 DEF	151 ABC	151 G	151 DEF	250 AB
SESSION	S19: The Alliance for Freshwater Life - fostering multidisciplinary freshwater research on local to global scales <i>Moderator: Sami Domisch</i>	C08: Urban Ecology <i>Moderator: Anika Bratt</i>	C06: Large River Ecology <i>Moderator: Jeff Wesner</i>	S02: Advancing knowledge on intermittent rivers and ephemeral streams: across disciplines and dimensions <i>Moderator: Hana Moidu</i>	S11: The good, the bad, and the ugly news about acidification in the 21st Century <i>Moderator: Barry Baldigo</i>	S12: Climate change in high-gradient mountain streams <i>Moderator: Deb Finn</i>
9:00 AM - 9:15 AM	THE ALLIANCE FOR FRESHWATER LIFE: INTRODUCING THE INITIATIVE AND IDEAS FOR FRESHWATER BIODIVERSITY RESEARCH FROM LOCAL TO GLOBAL SCALES Jähmig, Sonja C. ; Darwall, William; Harrison, Ian; Monaghan, Michael T.	IGNORANCE IS BLISS: THE CURRENT STATE OF SEPTIC SYSTEMS IN THE U.S. AND THE RISKS THEY POSE TO FRESHWATER SYSTEMS Parsons, Rebecca ; McDonald, Jacob M.; Bumpers, Phillip; Gaur, Nandita; Capps, Krista	MONTANA CONSORTIUM FOR RESEARCH ON ENVIRONMENTAL WATER SYSTEMS (CREWS): APPLICATION TO WATER QUALITY ISSUES IN THE UPPER CLARK FORK RIVER Valett, H. Maurice ; Colman, Benjamin; Cross, Wyatt; D'Andrilli, Juliana; DeGrandpre, Michael; Downey, Jerry; Hall, Robert; Metcalf, Elizabeth; Payn, Robert; Peipoch, Marc	DO ATTRIBUTES OF DRYING MATTER? SHORT-TERM RECOVERY OF SEDIMENT METABOLISM FROM VARIOUS DRYING Schreckinger, Jose ; Mendoza-Lera, Clara; Mutz, Michael	A CLEAN AIR ACT SUCCESS STORY: RECOVERING FISH ASSEMBLAGES AND WATER QUALITY IN ACIDIFIED STREAMS OF NEW YORK Baldigo, Barry ; George, Scott; Lawrence, Greg; McHale, Michael	CLIMATE CHANGE IN HIGH-GRADIENT MOUNTAIN STREAMS: SEARCHING FOR REFUGIA IN A HETEROGENEOUS LANDSCAPE Finn, Debra ; Hotaling, Scott
9:15 AM - 9:30 AM	TOOLS OF ENGAGEMENT IN RESEARCH, EDUCATION AND OUTREACH: THE MULTIPLIER EFFECT OF BOUNDARY SPANNING, NETWORKS AND COMMUNICATION IN THE LAND OF PRIVATE PROPERTY Arsuffi, Tom	CAN TREATED WASTEWATER SERVE AS HABITAT FOR DESERT FISHES? Eppehimer, Drew ; Hollien, Kelsey; Hamdhani, Hamdhani; Neme, Zach; Quanrud, David; Bogan, Michael	MACROPHYTES AND NUTRIENTS IN A STREAM SYSTEM: UTILIZING AND EVALUATING THE QUAL2K MODEL IN THE HENRY'S FORK OF THE SNAKE RIVER McLaren, John ; Budy, Phaedra; Brothers, Soren; Van Kirk, Rob	EFFECTS OF SIMULATED DROUGHT ON AQUATIC INSECT COMMUNITIES IN THE EASTERN SIERRA NEVADA Saffarinia, Parsa ; Herbst, Dave; Medhurst, Bruce; Anderson, Kurt	REDUCTION IN EMISSIONS AND DEPOSITION, IMPROVEMENTS IN WATER QUALITY, AND AQUATIC CRITICAL LOADS RESEARCH IN THE U.S. SINCE THE 1990 CAAA Lynch, Jason	ICY SEEPS MAY ACT AS A REFUGE FOR ALPINE STREAM INVERTEBRATES: EVIDENCE FROM THE CENTRAL ROCKY MOUNTAINS Tronstad, Lusha
9:30 AM - 9:45 AM	COMMUNITY CONSEQUENCES OF INDISCRIMINATE OVERFISHING IN LARGE TROPICAL RIVERS Heilpern, Sebastian ; Sethi, Suresh; Flecker, Alexander; Duponchelle, Fabrice; Doria, Carolina; Batista, Vandick; Isaac, Victoria	UNDERSTANDING THE PHYSIOLOGICAL MECHANISMS UNDERLYING SEASONAL MOVEMENTS OF COMMON MUDPUPIPIES (NECTURUS MACULOSUS) IN AN URBAN LAKE. Bilak, Jared ; Whiles, Matt; Warne, Robin	LOSS OF POTENTIAL AQUATIC-TERRESTRIAL SUBSIDIES ALONG THE MISSOURI RIVER FLOODPLAIN Wesner, Jeff ; Swanson, David; Dixon, Mark; Quist, Danielle; Soluk, Daniel; Yager, Lisa; Warmbold, Jerry; Oddy, Erika; Seidel, Tyler	INPUTS FROM WASTEWATER TREATMENT PLANT EFFLUENTS INFLUENCE THE TEMPORAL VARIATION OF NUTRIENT UPTAKE IN A TEMPORARY STREAM Marti, Eugènia ; Castelar, Sara; Ribot, Miquel; Merbt, Stephanie N.; Tobella, Marta; Sabater, Frances; Gacia, Esperança; Drummond, Jennifer; Bernal, Susana	REGIONAL STREAM ACIDIFICATION AND CRITICAL LOADS IN THE ADIRONDACK AND SOUTHERN APPALACHIAN MOUNTAINS INCLUDING INTERACTIONS WITH CLIMATE CHANGE McDonnell, Todd ; Sullivan, Timothy; Driscoll, Charles; Cosby, Bernard J.; Jackson, William; Lawrence, Greg; Burns, Doug; Dolloff, Andy; Beier, Colin	HIGH-RESOLUTION SPATIOTEMPORAL RESOLUTION OF MACROINVERTEBRATE DIVERSITY IMPERILED BY CLIMATE CHANGE IN NORTHWESTERN MONTANA Giersch, J. Joseph ; Hotaling, Scott; Jones, Leslie; Muhlfeld, Clint
9:45 AM - 10:00 AM	COUPLING A PURPOSE BUILT IMAGING SYSTEM WITH COMPUTER VISION TO ESTIMATE INVERTEBRATE DRIFT WITHIN LOTIC ECOSYSTEMS Macias, Nicholas ; Palkovacs, Eric; Danner, Eric	EFFECTS OF TREATED EFFLUENT ADDITION IN STREAMS: WATER QUALITY, ECOLOGY, AND FUTURE DIRECTIONS Hamdhani, Hamdhani ; Eppehimer, Drew; Bogan, Michael	ASSESSING BIOTIC VERSUS ABIOTIC FACTORS IN SHAPING COMMUNITY STRUCTURE IN LARGE RIVERS: RESPONSE OF ZOOPLANKTON TO ASIAN CARP IN THE ILLINOIS RIVER Casper, Andrew ; Chara-Serna, Ana	DROUGHT-INDUCED MASS MORTALITY OF FRESHWATER MUSSELS ALTERS ECOSYSTEM FUNCTION: A MESOCOSM EXPERIMENT DuBose, Traci ; Atkinson, Carla; Vaughn, Caryn; Golladay, Stephen W.	STREAMS ON ACID AND THEIR CALCIUM CARBONATE ANTIDOTE! Fuller, Randy	HYDROCLIMATIC DROUGHT EFFECTS ON PHYSICAL HABITAT FEATURES OF HEADWATER STREAMS IN THE SIERRA NEVADA OF CALIFORNIA Herbst, David B. ; Medhurst, R. Bruce; Karapetrova, Aleksandra
10:00 AM - 10:15 AM		PROJECTED VARIATION IN URBAN STREAM LENGTH BASED ON CLIMATE AND LAND USE SCENARIOS Bratt, Anika ; Heffernan, Jim		UNTANGLING EFFECTS OF PREDATORS AND LANDSCAPE FACTORS AS DRIVERS OF STREAM FISH COMMUNITY STRUCTURE Bruckerhoff, Lindsey ; Gido, Keith; Estey, Michael; Moore, Pamela	TRAJECTORIES OF RECOVERY FROM ACID RAIN OVER 31 YEARS (AMBIENT) AND 2 YEARS (EXPERIMENTAL) AT THE BEAR BROOK WATERSHED IN MAINE (BBWM), USA Norton, Stephen ; Fernandez, Ivan	DECLINE IN HABITAT SUITABILITY LIMITS EFFICACY OF STREAM REFUGIA UNDER CLIMATE CHANGE Troia, Matthew ; Kaz, Anna; Niemeyer, Cameron; Giam, Xingli
10:15 AM - 10:30 AM		FLOOD PROTECTION ECOSYSTEM SERVICES IN THE COAST OF PUERTO RICO: ASSOCIATIONS BETWEEN EXTREME WEATHER, FLOOD HAZARD MITIGATION AND GASTROINTESTINAL ILLNESS de Jesus Crespo, Rebeca			USING CRITICAL LOADS OF AQUATIC SYSTEMS TO GUIDE FEDERAL LAND MANAGEMENT Bell, Michael ; Stacy, Andrea; Renfro, Jim; Cummings, Jayln	GLACIERIZED CATCHMENTS IN THE TROPICAL ANDES: POSSIBLE IMPLICATIONS OF CLIMATE CHANGE Crespo-Pérez, Verónica ; Andino, Patricio; Cauvy-Fraunié, Sophie; Dangles, Olivier; Espinosa, Rodrigo; Jacobsen, Dean

GOLD, Arthur	S04 Novel Stressors and Novel Ecosystems: Ecological Processes in Freshwaters of the Built Environment	GREIG, Hamish	C02 Fish and Other Aquatic Vertebrates, C20 Climate Change
GOLD, Roger	C21 Communicating Science	GRIFFITH, John	S17 Bridging the Lotic-Microbial Gap: Understanding Drivers of Microbial Diversity in Stream Ecosystems
GOLLADAY, Stephen	C10 Biogeochemistry, S23 Enhance Your Work Through Incorporation of Public Engagement	GRIFFITH, Michael	S22 What do Managers/Regulators Need to Know from Science to Support Protection/Restoration/Adaptation Decisions?
GOLLADAY, Stephen W.	S02 Advancing Knowledge on Intermittent Rivers and Ephemeral Streams: Across Disciplines and Dimensions	GRIFFITHS, Natalie	C10 Biogeochemistry, C16 Restoration Ecology
GONZALEZ, Darcia	C20 Climate Change	GRIFFITHS, Ronald	C15 Population Ecology
GONZALEZ, Eduardo	S28 Strengthening Interdisciplinary Approaches in Freshwater Science	GRIMM, Nancy	S05 Damming the Amazon - Hydropower Proliferation in the World's Largest River System
GONZALEZ, Maria	C07 Lentic Ecology	GROFFMAN, Peter	S04 Novel Stressors and Novel Ecosystems: Ecological Processes in Freshwaters of the Built Environment
GONZÁLEZ, Ignacio	S01 The Environmental Flow and Water Management Nexus: Implementation Challenges, Strategies, and Outcomes of Environmental Flow Programs	GRUBB, Brooke	C30 Molecular Ecology
GONZÁLEZ-ZEAS, Dunia	S01 The Environmental Flow and Water Management Nexus: Implementation Challenges, Strategies, and Outcomes of Environmental Flow Programs	GRUNTZ, Connor	S09 Freshwater Salinization: Science for Solutions
GOODMAN, Keli	S14 Heterotrophic Regimes in Rivers: Technical and Conceptual Advances	GRUPPUSO, Laura	S06 The River Continuum Concept: Perspectives for the Future in Translational Stream Ecology
GOOSEFF, Michael	C14 Hydroecology	GUFFIN, Emily	S04 Novel Stressors and Novel Ecosystems: Ecological Processes in Freshwaters of the Built Environment
GOPALAKRISHNAN, Kishore	S04 Novel Stressors and Novel Ecosystems: Ecological Processes in Freshwaters of the Built Environment	GUINNIP, James	C22 Disturbance
GORDON-WEAVER, Aaron	C01 Algae	GULIS, Vlad	C04 Microbial Ecology, C31 Organic Matter Processing, S16 Energy-Flow Food Webs: New Perspectives, Common Ground, and Knowledge Gaps
GOSSELIN, Pascale	S08 Advancing Thermal Restoration of Rivers and Streams	GUTIERREZ, Carolina	S12 Climate Change in High-Gradient Mountain Streams
GÖTHE, Emma	C11 Community Ecology	GUTIÉRREZ-FONSECA, Pablo E.	C22 Disturbance
GOTKOWSKI, Nicole	C38 Hyporheic Processes	GUTIERREZ-JURADO, Karina	S02 Advancing Knowledge on Intermittent Rivers and Ephemeral Streams: Across Disciplines and Dimensions
GOUGHERTY, Steven	C09 Wetland Ecology	GUY, Christopher	C07 Lentic Ecology, C25 Food Webs, S16 Energy-Flow Food Webs: New Perspectives, Common Ground, and Knowledge Gaps
GRACE, Michael	C04 Microbial Ecology, S06 The River Continuum Concept: Perspectives for the Future in Translational Stream Ecology, S14 Heterotrophic Regimes in Rivers: Technical and Conceptual Advances	HAGERTHEY, Scot	S27 Novel Tools for Scoping and Problem Formulation to the Further Translational Science
GRAHAM, Elizabeth	C11 Community Ecology, C16 Restoration Ecology	HAGY, James	C17 Bioassessment
GRAHAM, Emily	S17 Bridging the Lotic-Microbial Gap: Understanding Drivers of Microbial Diversity in Stream Ecosystems	HAIRSTON, Nelson	S10 Biogeomorphic Agents: Role of Organisms in Propagating Change in Fluvial Ecosystems
GRAN, Karen	S28 Strengthening Interdisciplinary Approaches in Freshwater Science	HAJIBABAEI, Mehrdad	C18 Biodiversity
GRANT, Christopher	C02 Fish and Other Aquatic Vertebrates	HALE, Rebecca	S02 Advancing Knowledge on Intermittent Rivers and Ephemeral Streams: Across Disciplines and Dimensions
GRANTHAM, Ted	S01 The Environmental Flow and Water Management Nexus: Implementation Challenges, Strategies, and Outcomes of Environmental Flow Programs	HALE, Tony	S24 Supporting Freshwater Policy and Decision Making in the Modern/Digital Age
GRANTHAM, Ted	S01 The Environmental Flow and Water Management Nexus: Implementation Challenges, Strategies, and Outcomes of Environmental Flow Programs, S02 Advancing Knowledge on Intermittent Rivers and Ephemeral Streams: Across Disciplines and Dimensions, S15 Towards a Predictive Understanding of Metacommunity Dynamics in Freshwater Ecosystems	HALL, Damon	C36 Water Resource Management
GRAY, Austin	C28 Land-Water Interfaces	HALL, Robert	C06 Large River Ecology, C10 Biogeochemistry, S13 The Times they are a Changing - Linking Organismal Phenology and Metabolic Regimes in River Ecosystems, S14 Heterotrophic Regimes in Rivers: Technical and Conceptual Advances, S16 Energy-Flow Food Webs: New Perspectives, Common Ground, and Knowledge Gaps
GREAVER, Tara	S27 Novel Tools for Scoping and Problem Formulation to the Further Translational Science	HALVORSON, Halvor	C04 Microbial Ecology, C31 Organic Matter Processing, C04 Microbial Ecology, C31 Organic Matter Processing, C37 Stoichiometry
GREEN, Allyson	S26 Scholarship of Teaching and Learning in Freshwater Science	HAMDHANI, Hamdhani	C08 Urban Ecology
GREEN, Linda	C07 Lentic Ecology	HAMILTON, Anna	S21 Beyond Bioassessment: Translating Biological Information for Environmental Problem Solving, S22 What do Managers/Regulators Need to Know from Science to Support Protection/Restoration/Adaptation Decisions?
GREEN, Matthew	C01 Algae	HAMILTON, Gregor	C25 Food Webs
GREEN, Matthew	S15 Towards a predictive understanding of meta-community dynamics in freshwater ecosystems	HAMILTON, Stephen	C04 Microbial Ecology, C26 Invasive Species
GREER, Meredith	C20 Climate Change	HAMPTON, Tyler	S24 Supporting Freshwater Policy and Decision Making in the Modern/Digital Age
GREGORY, Stan	S08 Advancing Thermal Restoration of Rivers and Streams		

MARK YOUR CALENDAR FOR NEXT YEAR'S MEETING

2020 Joint ASLO-SFS Summer Meeting

7–12 June 2020 • Madison, Wisconsin

Monona Terrace Community & Convention Center

The Joint ASLO-SFS Summer Meeting in June 2020 will draw attendance from the freshwater community at large. Make plans to participate in this world-class meeting for aquatic science professionals and students — to share ideas and to further interdisciplinary research and cooperation.

August 2019.....Session proposal deadline
October 2019.....Session organizers notified
January 2020..... Call for abstracts issued/Registration opened
February 2020.....Abstract submission deadline
March 2020.....Program schedule posted
April 2020Presentations scheduled
May 2020Full program posted
7-12 June 20202020 ASLO-SFS Joint Meeting

Organizing Committee

Meeting Co-chairs

Steve Carpenter, Center for Limnology-
University, Wisconsin- Madison,
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Scientific Committee

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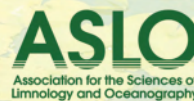
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Local Committee Co-chairs

Bobbi Peckarsky, University of Wisconsin-
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Jake Vander Zanden, University of Wisconsin-
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SFS 2019 Oral Presentation

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