



SOCIETY FOR FRESHWATER SCIENCE

Annual Meeting

MAY 21-26 2016

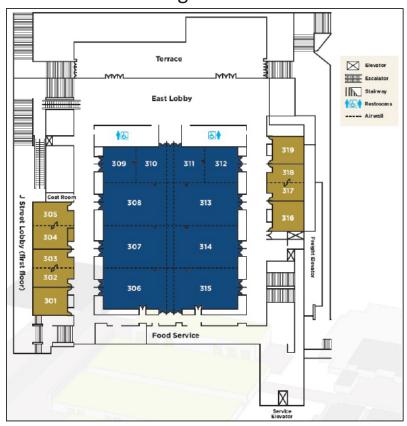
SACRAMENTO CONVENTION CENTER

Street Level





Third Floor Meeting Rooms



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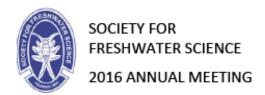
Online Searchable Agenda

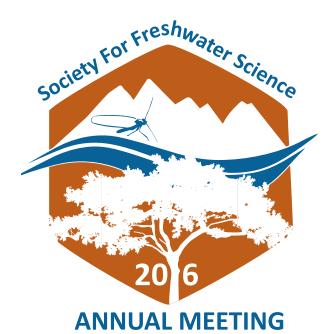
Online presentation listings in various formats are located on the Agenda page of the conference website:

http://sfsannualmeeting.org/agenda.cfm

Direct Link to downloadable schedule grid by room and day:

http://sfsannualmeeting.org/includes/ SFS2016_GridAgenda.pdf ABOUT SFS AND OUR LOGO SFS 2016 PROGRAM BOOK





SfS2016
RUNNING ON EMPTY

Sacramento California

SACRAMENTO CALIFORNIA, USA

MAY 21-26, 2016
Sacramento Convention Center

For more information visit freshwater-science.org or

sfsAnnualMeeting.org

Running on Empty:

Increasing Demands on Freshwater Resources in the face of a Changing Climate

In many regions of the developed and developing world, large human populations live in arid environments that out of necessity depend on scarce or imported water. This is certainly true in California and the Western US where a complex infrastructure of dams, canals, and groundwater extraction provide freshwater for some of the world's most productive farms and some of the world's most opulent living conditions. Compounding this insatiable demand for freshwater is the effects that variable environmental conditions of a warming climate, changing precipitation, and increasing frequency and severity of droughts have on over-taxed water supplies.

While water resource managers contemplate these issues, the farms and cities keep consuming, despite dwindling supplies. The 2016 meeting of the Society for Freshwater Science will be held in Sacramento California at a time when the State is experiencing the worst drought in its modern history. Although droughts are not uncommon in the Western US and other semi-arid regions of the world, expanding human populations have accelerated the loss of freshwater resources and the impacts to aquatic organisms. The theme of the 2016 meeting of the Society for Freshwater Science will focus on declining freshwater availability and explore issues of freshwater depletion. the consequences for freshwater ecosystems, and potential solutions.

MEETING ORGANIZERS

2016 Meeting Co-Chairs

Amy Burgin

University of Kansas

Jim Harrington

California Department of Fish and Wildlife

University of Alaska Fairbanks

Additional Members

Nick Macias

Cal Poly San Luis Obispo

Raphael Mazor

Southern California Coastal Water Research Project

Dan Pickard

California State University Chico

Eric Stein

Southern California Coastal Water Research Project

President

Matt Whiles

Southern Illinois University

Conference Planner/Meeting Manager

Joy Brisighella, CMP **USU Conference Services**

Student Resource Committee (SRC) Officers

Chair

Joanna Blaszczak

Board of Directors Representative

Petra Kranzfelder

Treasurer

Jessica Fulgoni

Silent Book Auction

Andrea Fitzgibbon (chair), Allyson Yarra, Julie Kelso, Martha Dee

SRC Workshop

Matt Fuller, Megan Fork

Student-Mentor Mixer

Matt Trentman (chair), Matthew Cashman, Kara Prior, Logan Shoup

Merchandise

Darrin Hunt (chair), Corey Krabbenhoft, Martha Dee, Natasha Wingerter

Live Auction

Dustin Kincaid (chair), Anna Boegehold, Raissa Mendonca

Undergraduate Travel Awards

Kait Farrell, Sophia Bonjour, Brittany Hanrahan

Public Information & Policy Representatives/Social **Media Managers**

Alex Yeung, Hal Halvarson

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

sfsannualmeeting.org

Society Website freshwater-science.org **SOCIAL MEDIA HASH TAG:**

#2016SFS

Facebook

www.facebook.com/FreshwaterScience

Twitter

https://twitter.com/benthosnews

PHOTO CREDIT

The photos on our front and back cover contrast pre-drought vs. during-drought conditions in California, and are courtesy of Dave Herbst (shown), Sierra Nevada Aquatic Research Laboratory, University of California.

Conference Planner/Meeting Management

USU Conference Services Joy Brisighella, CMP 435-797-9270 Joy.brisighella@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.

Policy Regarding Drink Tickets

Due to state and society policies, a 2016 conference badge and a valid photo ID are required to redeem drink tickets at 2016 SFS events. Drink tickets are valid on the date (and event) listed on the ticket only, and are for the exclusive use of the registered participant who has received the ticket in his/her registration packet – tickets are not transferrable to any other person(s).

SCHEDULE AT-A-GLANCE SFS 2016 PROGRAM BOOK

MEETING SCHEDULE

All events are at the Sacramento Convention Center unless otherwise indicated

Friday, May 20, 2016		
8:00 AM - 5:00 PM	Pre-Meeting Field Trips	
3:00 PM - 5:00 PM	SFS Finance Meeting	Sheraton-Beavis
Saturday, May 21, 201	16	
9:00 AM - 5:00 PM	PRE-MEETING WORKSHOPS	Convention Center - Third Floor
1:00 PM - 4:30 PM	INSTARS Orientation	304-305
4:00 PM - 10:00 PM	Registration Open	Exhibit Hall C
6:00 PM - 10:00 PM	Exhibits Open	Exhibit Hall C
06:00 PM	Welcome Mixer	Exhibit Hall C
7:00 PM - 10:00 PM	SFS Meeting Opening and Awards	Hall DE
Sunday, May 22, 2016	i.	
8:00 AM - 11:00 PM	Registration Open	Exhibit Hall C
9:00 AM - 12:00 PM	TCP Test Sessions	317-318
9:00 AM - 10:00 AM	Welcome/Announcements	Hall DE
	PLENARY SESSION: Mary Power	Hall DE
10:00 AM - 10:30 AM	Coffee Break	Exhibit Hall C
10:30 AM - 12:00 PM	CONCURRENT SESSIONS 1	Convention Center - Third Floor
12:00 PM - 1:30 PM	Lunch On Your Own	
	(for those not in a committee lunch)	
	SFS Committees Lunch Meeting	Sheraton-Gardenia
	SRC Student Resource Committee Lunch Meeting	Sheraton-Camelia
1:00 PM - 4:00 PM	TCP Test Sessions	317-318
1:30 PM - 3:00 PM	CONCURRENT SESSIONS 2	Convention Center - Third Floor
3:00 PM - 3:30 PM	Coffee Break	Convention Center - Third Floor
3:30 PM - 5:00 PM	CONCURRENT SESSIONS 3	302-303
4:00 PM - 5:00 PM	TCC Meeting	317-318
6:30 PM - 8:30 PM	SRC Student/Mentor Mixer	Sheraton-Camelia/Magnolia
07:30 PM	SFS Mixer	Exhibit Hall C
8:00 PM - 10:00 PM	Live Auction	Hall DE
Monday, May 23, 201	6	
7:00 AM - 9:00 AM	Pub Com Meeting	Sheraton-Beavis
8:00 AM - 7:00 PM	Registration Open	Exhibit Hall C
9:00 AM - 10:00 AM	Welcome/Announcements	Hall DE
	PLENARY - Peter Moyle	Hall DE
10:00 AM - 10:30 AM	Coffee Break	Exhibit Hall C

ROOM 301 HAS BEEN RESERVED FOR CHAPTER MEETINGS THROUGHOUT THE WEEK. A SIGN UP FORM IS POSTED ON THE MESSAGE BOARD NEXT TO REGISTRATION.

SFS2016: RUNNING ON EMPTY SCHEDULE AT-A-GLANCE

10:30 AM - 12:00 PM	CONCURRENT SESSIONS 4	Convention Center - Third Floor
12:00 PM - 1:30 PM	SFS Membership Business Lunch	Hall DE
	Lunch On Your Own (if not attending business	
	lunch)	
1:30 PM - 1:45 PM	CONCURRENT SESSIONS 5	Convention Center - Third Floor
3:00 PM - 3:30 PM	Coffee Break	Convention Center - Third Floor
3:30 PM - 3:45 PM	CONCURRENT SESSIONS 6	Convention Center - Third Floor
5:00 PM - 6:00 PM	SFS Endowment Reception	Sheraton-Bataglieri
5:00 PM - 7:00 PM	Conference Mixer with California Chapter Hosts	Exhibit Hall C
Tuesday, May 24, 201	6	
8:00 AM - 1:00 PM	Taxonomy Fair Set-up	Exhibit Hall C
8:00 AM - 9:00 AM	South Central Chapter Meeting	301
8:00 AM - 4:00 PM	Registration Open	Exhibit Hall C
9:00 AM - 10:00 AM	Welcome/Announcements	Hall DE
	PLENARY - Peter Gleick	Hall DE
10:00 AM - 10:30 AM	Coffee Break	Exhibit Hall C
10:30 AM - 12:00 PM	CONCURRENT SESSIONS 7	Convention Center - Third Floor
12:00 PM - 1:30 PM	Lunch On Your Own	
1:30 PM - 4:00 PM	Poster Session	Exhibit Hall C
	Taxonomy Fair	Exhibit Hall C
4:00 PM - 5:00 PM	Chapter Information Session	301
4:30 PM - 6:00 PM	Fun Run	Old Town Sacramento
7:30 PM - 10:00 PM	Offsite Social Event and Jam Session	Rail Road History Museum Grounds
Wednesday, May 25, 2	2016	
7:30 AM - 9:00 AM	New Board of Directors Breakfast	Sheraton-Falor
8:00 AM - 5:00 PM	Registration Open	Exhibit Hall C
	Silent Auction Pickup	Exhibit Hall C
9:00 AM - 10:00 AM	Welcome/Announcements	Hall DE
	PLENARY - J Angus Webb	Hall DE
10:00 AM - 10:30 AM	Coffee Break	Exhibit Hall C
10:30 AM - 12:00 AM	CONCURRENT SESSIONS 8	Convention Center - Third Floor
12:00 PM - 1:30 PM	Lunch On Your Own	Offsite
1:30 PM - 3:00 PM	CONCURRENT SESSIONS 9	Convention Center - Third Floor
3:00 PM - 3:30 PM	Coffee Break	Convention Center - Third Floor
3:30 PM - 5:00 PM	CONCURRENT SESSIONS 10	Convention Center - Third Floor
Thursday, May 26, 201	16	
8:00 AM - 7:00 PM	Field Trips	

ONLINE SEARCHABLE AGENDA:

DOWNLOADABLE SCHEDULE GRIDS:

http://sfsannualmeeting.org/agenda.cfm http://sfsannualmeeting.org/includes/SFS2016_GridAgenda.pdf

REGISTRATION INFORMATION SFS 2016 PROGRAM BOOK

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 http://www.freshwater-science.org/.

SOCIETY OFFICERS AND INFORMATION

Executive Committee

Matt Whiles - President

Emma Rosi-Marshall — Assistant to the President

Dave Strayer — Past-President

Emily Bernhardt — President-Elect

Mike Swift — Treasurer

Sue Norton — Secretary

Board of Directors

Matt Whiles — Chair

Chuck Hawkins — Publications Comittee

Petra Kranzfelder — Student Resources Committee

Kim Haag — Finance Committee

Emma Rosi-Marshall — Assistant to the President

Sue Norton Mike Paul Chris Robinson Mike Swift Michelle Baker Walter Dodds

Steve Thomas Natalie Griffiths

Emma Rosi-Marshall

REGISTRATION AND CHECK-IN INFORMATION

Registration and check in for the meeting will be available all week on the main floor of the Sacramento Convention Center, Exhibit Hall C. Please check in upon your arrival at the meeting in order to receive your name badge and other important materials and information.

REGISTRATION HOURS

Saturday, 21 May 2016 – 4:00pm to 10:00pm

Sunday, 22 May 2016 - 8:00am to 10:00pm

Monday 23 May 2016 - 8:00am to 7:00pm

Tuesday 24 May 2016 - 8:00am to 4:00pm

Wednesday 25 May 2016 - 8:00am to 5:00pm

MEETING UPDATES

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

RECEIPTS AND CERTIFICATES 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.

Certificates of Participation may be requested at the Registration Desk and will be generated within 24 hours of request.

MESSAGES

Message boards will be located near registration. Feel free to post messages, CV's, and job opportunities, as well as to check these boards if you are expecting a message 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.

TICKETS TO PARTICIPANT EVENTS

Your conference badge includes a block of tickets to be used for the SFS mixers and social events. Please keep these tickets in a safe place. They will not be replaced if lost. Unused tickets cannot be redeemed for cash and are non-transferrable to other events or persons. Due to state and society policies, a 2016 conference badge and a valid photo ID are required to redeem drink tickets at 2016 SFS events. Drink tickets are valid on the date (and event) listed on the ticket only, and are for the exclusive use of the registered participant who has received the ticket in his/her registration packet – tickets are not transferrable to any other person(s).

DIETARY RESTRICTIONS

An effort has been made to provide a mix of choices at the SFS meal and mixer events that cover a range of dietary preferences, according to the information submitted in pre-registration. There are no special tickets, and individual special meals have not been ordered, leaving it up to the individual at each event to make the choices that best fit their preferences and needs. If you have questions regarding the ingredients of any of the provided food items at the SFS events, ask the server on duty.

KEYNOTE/PLENARY SESSIONS

Sunday 22 May 2016

DR. MARY E. POWER



University of California, Berkeley

Drought, Floods, and Alternate States of Algal-based River Food Webs in the Thirsty Eel

Winter scour and summer base flow control algal-based food webs that assemble during the biologically active summer in the Eel and similar rivers

under the Mediterranean seasonality along the California North Coast. Large algal blooms of the macroalga Cladophora follow winters with one or more bed-mobilizing flood, which scour away over-wintering armored grazers. Inedible armored grazers abound after winters without flood scour, and sequester early summer growths of Cladophora and diatoms, reducing supplies for higher trophic levels. If winter floods release spring algae from large grazers, however, Cladophora proliferates over the summer low flow season, and becomes overgrown with highly edible epiphytic diatoms. Salmonids and other predators are then supported by prey built of epilithic and epiphytic algal carbon, but only if scouring winter floods are followed by sustained summer base flow. If prolonged drought (or human water extraction) reduce flows enough to disconnect and warm mainstem pools, cyanobacteria, some toxic, can proliferate and cover both rocky substrates and the Cladophora-diatom assemblages. Twenty-five years of observation, 5 field experiments, and diatom frustule counts in an 84-year stratigraphic record from the Eel's marine canyon help link year-to-year variation in hydrology to the three contrasting summer food web states: with scouring floods and sufficient summer baseflow leading to 3-4 link chains that support salmon; flood-free winters leading to 2-link food chains with algal energy sequestered by predator resistant grazers if base flows keep mainstem reaches hydraulically connected; and the recently seen, concerning development that under severely reduced summer baseflows, a one-link food chain may develop, capped by cyanobacteria, some of which are toxic to vertebrates. Agency, academic, and citizen scientists are now collaborating to monitor and study conditions that flip river food webs from salmon-supporting to cyanobacterially-dominated states, and to learn more about the fates of algal production in river and coastal food webs. More Eyes on the Eel and other rivers are needed to track critical flow-driven ecological changes, and to steward watersheds through the altered hydrologic regimes that lie ahead.

Dr. Mary E. Power is Professor in the Department of Integrative Biology at the University of California, Berkeley. She was awarded an honorary doctorate by Umea University, the Kempe Medal for distinguished ecologists, 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 National Academy of Sciences, USA. She has served on the Editorial Board of PNAS (2014 to present) and Science (2006-2009). Mary also served as President of the American Society of Naturalists, and of the Ecological Society of America. Since 1988, she has been the Faculty Director of the Angelo Coast Range Reserve, (one of the UC Natural Reserve System sites, a 3500 ha reserve protected for university teaching and research). She has studied food webs in temperate and tropical rivers, as well as linkages of rivers, watersheds and near-shore environments. Focal organisms include cyanobacteria, algae, invertebrates, fish, estuarine crustaceans and terrestrial grasshoppers, spiders, lizards, birds and bats. By studying how key ecological interactions depend on landscape and temporal contexts, her group hopes to learn how river-structured ecosystems will respond to changes over space and time in climate, land use, and biota. Her group also collaborates closely with Earth and atmospheric scientists in site-based research to investigate linkages among riverine, upland, and near-shore ocean ecosystems.





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KEYNOTE/PLENARY SESSIONS

Monday 23 May 2016



PETER B MOYLE *University of California, Davis*

Aquatic California: Endemic Biota, Endemic Problems, Endemic Solutions

California is distinctive aquatic bioregion, with a high degree of endemism in its biota. The best-studied group, the fishes, is 79%

endemic to the state or adjacent regions. Endemic species are widely distributed around the state but most are concentrated in 'hot spots'. Aquatic invertebrates follow the same pattern. California is the hydraulic society, so there is intense competition between humans and aquatic ecosystems for water. The ecosystems are losing. Most are highly altered and/or highly invaded by alien species, creating novel ecosystems. As a result 93 of 124 extant native fishes have some official designation as endangered, threatened, or special concern. Such severe stress requires new approaches and large-scale solutions. 'Reconciliation ecology' is an approach that seems to resonate with managers and can provide a basis for state-wide conservation strategies that are broad in scope but local in impact.

Peter Moyle has been working on the ecology California's freshwater and estuarine fishes since 1969, culminating in Inland Fishes of California (2002, UC Press). He has co-authored numerous papers on the ecology, status and trends of California's native and alien fishes, including documenting declines of salmon, steelhead, and other anadromous fishes in California. Present research focuses on climate change, effects of drought on fishes, floodplain management, and reconciliation ecology. He is Distinguished Professor Emeritus in the Department of Wildlife Fish and Conservation Biology and associate director of the Center for Watershed Sciences, UC Davis.

KEYNOTE/PLENARY SESSIONS

Tuesday 24 May 2016



DR. PETER GLEICKPacific Institute,
Oakland California

The Future of Freshwater in a World of Climate Change

Global and local freshwater challenges continue to mount around the world as populations expand, economies grow, and climate changes accelerate.

Dr. Peter Gleick will address the nature of freshwater problems, the history and science around society's efforts to solve water challenges, and a vision for a sustainable future for water. Science and technology remain central to efforts to understand and improve water management, but it is equally important to understand the economic, cultural, and political factors that also influence how freshwater is used and how the adverse impacts of that use can be mitigated.

Dr. Peter Gleick is a leading expert, innovator, and communicator on water and climate issues. He co-founded and leads the Pacific Institute in Oakland created in 1987 and now one of the most innovative, independent non-governmental organizations addressing global water challenges. Dr. Gleick's work has redefined water from the realm of engineers to the world of social justice, sustainability, human rights, and integrated thinking. His influence on the field of water has been long and deep: he developed one of the earliest analyses of climate change impacts on water resources, the earliest comprehensive work on water and conflict, and defined basic human needs for water and the human right to water - work that has been used by the UN and in human rights court cases. He pioneered the concept of the "soft path for water," developed the idea of "peak water," and has written about the remarkable history and background of the growing bottled water phenomenon. Dr. Gleick is a MacArthur "genius" Fellow, was named "a visionary on the environment" by the BBC, and is an elected member of the U.S. National Academy of Sciences. Wired Magazine featured Dr. Gleick as "one of 15 people the next President should listen to." He received his B.S. from Yale University and an M.S. and Ph.D. from the University of California, Berkeley. Dr. Gleick serves on the boards of numerous journals and organizations, and is the author or editor of many scientific papers and eleven books, including the influential series The World's Water and Bottled and Sold: The Story Behind Our Obsession with Bottled Water, as well as the 2012 release A Twenty-First Century U.S. Water Policy.

KEYNOTE/PLENARY SESSIONS

Wednesday 25 May 2016



DR. ANGUS WEBBUniversity of Melbourne,
Australia

Of Droughts and Flooding Rains: Innovative Responses to Water Scarcity in Temperate Australia

The Millennium Drought (1997-2009) across much of temperate

Australia caused major hardships in rural communities and long-lasting (perhaps permanent) damage to river systems of the Murray-Darling Basin and beyond. However, with every crisis comes opportunity, and the latter years of the Millennium drought were characterized by rapid advances in water resource and environmental management research, policy and practice in Australia.

Rare bipartisanship in the nation's capital saw a new Federal Water Act established, greatly increasing the standing of 'the environment' as a legitimate user of water. The Murray-Darling Basin Plan, which became law in November 2012, will see around 2,750 GL/year of water recovered from consumptive water uses (mainly irrigation) for the environment. This equates to a recovery of around 21% of average annual discharge across the Basin. This make it one of the largest (in terms of relative volumes) environmental flows program ever implemented, and positive ecological responses of this major investment in the environment are already being observed. However, water reform has been far from painless, with affected rural communities understandably concerned about effects upon their livelihoods, and indeed the long-term viability of the fabric of rural Australia.

During the drought, technological and behavioural innovations greatly reduced water consumption in urban and rural Australia; and local river managers developed ecological triage approaches to maintain critical ecological functions of rivers on very small volumes of water. Water markets have also created the opportunity for efficient use of water for both consumptive and environmental purposes; and collaborations between researchers and river managers are developing methods to achieve best ecological outcome from the environmental water available.

The drought broke with a bang, with record flooding in south-eastern Australian in spring 2010, and rainfall patterns have been approximately average since then. Encouragingly, the majority of water reform policies and practices have endured, suggesting that Australia is better placed to face the next major drought. An opportunity to test this hypothesis may come sooner than expected, with 2015 inflows to the Murray River through to the end of September among the lowest on record, and climatic conditions in the Pacific and Indian oceans pointing to the high likelihood of a dry 2016.

Dr. Angus Webb is a Senior Lecturer in Environmental Hydrology and Water Resources at the University of Melbourne, Australia. He originally trained as a marine ecologist before moving into the study and restoration of large-scale environmental problems in freshwater systems. Much of his research centers on improving the use of the existing knowledge and data for such problems. To this end he has developed innovative approaches to synthesizing information from the literature, eliciting knowledge from experts, and analyzing large-scale data sets. He is heavily involved in the monitoring and evaluation of ecological outcomes from the Murray-Darling Basin Plan environmental watering, leading the program for the Goulburn River, Victoria, and advising on data analysis at the basin scale. Angus is currently a co-editing a major new text book on environmental flows science and management. He was awarded the 2013 prize for Building Knowledge in Waterway Management by the River Basin Management Society, and the 2012 Australian Society for Limnology Early Career Achievement Award.

2015 AWARDS SFS 2016 PROGRAM BOOK

2016 AWARD RECIPIENTS

SFS 2016 Award of Excellence



CLIFFORD N. DAHM

Dr. Clifford N. Dahm, the 2016 recipient of the SFS Award of Excellence, has a distinguished career in ecosystem studies and aquatic ecology that has produced a large and influential body of inter-disciplinary research. Cliff has made substantial research contributions in areas including stream geomicrobiology, stream biogeochemistry and the influence of hyporheic,

ecohydrology, nutrient dynamics, tower-based evapotranspiration dynamics of riparian zones, stream water-groundwater interactions, the influence of climate dynamics on river and riparian ecosystems, and the ecology of intermittent rivers. In addition he has also worked on more applied research in stream, river, and wetland restoration, and on the bridge from science to policy and management. Cliff started with his masters and PhD work at the Oregon State University researching nutrient cycling and the distribution and fate of dissolved organic carbon, but with a dual focus in oceanographic and freshwater systems. After 4 years as a post-doctoral research associate and assistant professor in aquatic ecology at Oregon State, Cliff moved inland to the University of New Mexico (UNM), where, over three decades,

he established a rich and productive research program. At UNM Cliff mentored many (30+) graduate students as well as numerous undergraduates and post-docs, and helped establish programs such as the NSF-sponsored Integrative Graduate Education and Research Traineeship (IGERT) on freshwater ecology and the Sevilleta LTER, which have enriched the University and been highly beneficial to innumerable students. Cliff has participated in and/ or helped direct several notable interdisciplinary, collaborative, and/or international research projects, such as the Nutrient Partitioning and Retention [NPARS], the Lotic Intersite Nitrogen eXperiment [LINX] I and II, the National River Restoration and Science Synthesis [NRRSS] project, and more recently, the Intermittent River Biodiversity Analysis and Synthesis [IRBAS] project. Exemplifying Cliff's commitment to translating science to policy in a meaningful way, from 2008-2011, while maintaining his activities at UNM, Cliff became the Lead Scientist for the CALFED Bay-Delta Science Program (later Delta Science Program/Delta Stewardship Council). Here he made enormous contributions to the incorporation of science in the management of the Bay-Delta ecosystem, balancing ecosystem recovery with water supply reliability. As a testament to both Cliff's commitment to the marriage of science and policy and to the high regard he earned in this position, Cliff was recently re-appointed as the Delta Program Lead Scientist, where he currently serves despite his recent 'retirement' from UNM.

SFS 2016 Environmental Stewardship Award



JIM HARRINGTON

Jim Harrington is a Senior Environmental Scientist for the California Department of Fish and Wildlife's and has worked in the field of fisheries and water quality biology for more than 35 years. Jim received a BS in Fisheries Management and MS in Watershed Management from Humboldt State University in Arcata, California.

Jim is presently assigned to the CDFW Water Pollution Control Laboratory where he investigates and provides biological interpretation of toxicological and chemical data associated with enforcement of pollution events throughout California. He also provides technical support and training on water quality issues to all CDFW functions and many branches of State and Federal government which deal in environmental monitoring and regulation.

In 1993, Jim established the CDFW Aquatic Bioassessment Laboratory (ABL) where staff specializes in developing biological techniques to assess status, determine stressors and monitor recovery of aquatic systems. ABL staff conducts biological monitoring for the State Water Resource Control Board's Surface Water Ambient Monitoring Program (SWAMP) and leads the technical development of the tools needed to protect biological integrity for waters of the State. In 1996, Jim developed field and laboratory curriculum for professionals, environmental educators and watershed groups, teaching them the principles of bioassessment and how biological indicators can be used in California water quality monitoring and protection.

INFC

FUTURE MEETING



SFS2017

DESIGNING OUR FRESHWATER FUTURES

RALEIGH, NORTH CAROLINA, USA

DESIGNING OUR FRESHWATER FUTURES

Human civilization relies on a sustainable supply of fresh water to satisfy our thirst, water our crops, support fisheries, provide energy, and enrich our experience of nature. We are equally reliant on freshwater ecosystems to dispose of our wastes and to transport our commodities. These needs are often in conflict with one another, and unless carefully managed may both conflict with our desire to maintain the beauty and biodiversity of rivers. Much freshwater science has focused on documenting the identity and distribution of freshwater species and their loss; how our farms, cities, dams and mines degrade the physical, chemical and biological integrity of receiving streams. As a result, we are adept at documenting the decline – research designed to identify solutions has proved more elusive.

In our Raleigh 2017 meeting, we want to challenge the SFS community to shift their focus to how freshwater science can help imagine and implement solutions to the complex set of problems that plague freshwaters. Advancing our understanding of ecological processes will continue to be important, but is insufficient to meet future challenges. At SFS 2017 we will discuss and debate compelling ideas about how freshwater scientists can individually and collectively contribute to solution pathways that improve the trajectory of freshwater ecosystems. Our goal is to encourage all members of SFS to use their science to Inspire the public by sharing stories about the wonders of freshwater ecosystems; Inform stakeholders about the threats to and possibilities for future freshwater management and Insert our knowledge into real-time policy decisions, management actions, and technological innovations that will ultimately determine our freshwater future.

Please visit the Greater Raleigh Convention and Visitor's Bureau booth for further details concerning the meeting; or visit the SFS website, www.sfsannualmeeting.org.

SFS 2017 Meeting Organizers

Program Chair: Mike Paul

3

Local Arrangements Chair: Jim Heffernan

(with help and oversight from Emily Bernhardt and Steve Thomas, President and Vice President) **Program Committee Members**

CONTRIBUTED SESSION ORGANIZERS

Geoff Poole and Wyatt Cross (go MSU!!)

SPECIAL SESSION ORGANIZERS

Amy Rosemond and Krista Capps

LOCAL ARRANGEMENTS COMMITTEE MEMBERS

Marcelo Ardón, Anne Hershey, Julie DeMeester, Dave Penrose, Bob Hall, Brad Taylor, Bob Hall, Joanna Blaszczak (as head of SRC), and Natalie Griffiths (head of Early Career group).

2017 ANNUAL MEETING SCHEDULE

Sunday June 4: Workshops and board/committee meetings

Monday June 5-Thursday June 8: SFS Annual Meeting

Friday June 9: Optional field trips

CONFERENCE VENUE:

Raleigh Convention Center 500 S. Salisbury Street Raleigh NC 27601

CONFERENCE HOTELS:

Sheraton Raleigh Hotel 421 S. Salisbury Street Raleigh NC 27601

Raleigh Marriott City Center 500 Fayetteville Street Raleigh NC 27601

Holiday Inn Raleigh Downtown 320 Hillsborough Street Raleigh NC 27603 SFS SPONSORS SFS 2016 PROGRAM BOOK

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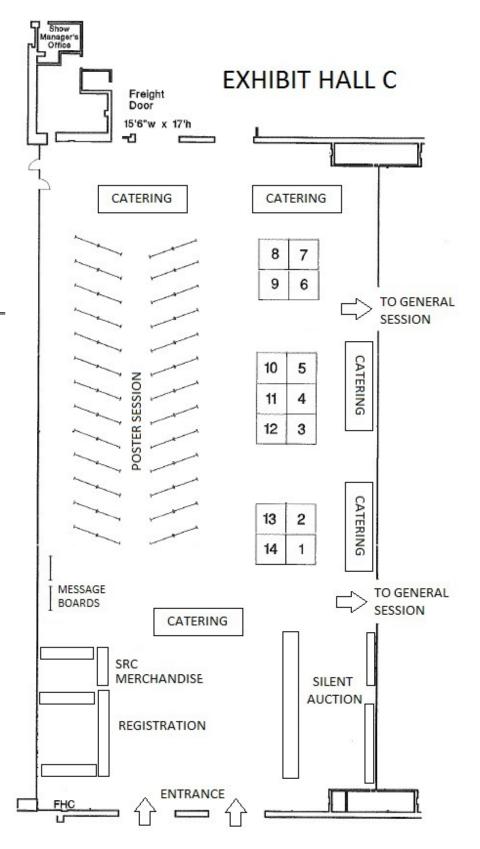
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2016 SFS EXHIBITORS

BOOTH ORGANIZATION 1 U.S. Forest Service 2 SFS 2017 - Raleigh 3 **Turner Designs** 4 EcoAnalysts, Inc. 5 USGS 6 The University of Chicago Press 7 Freshwater Science Journal 8 **Eureka Water Probes** 9 JH Technologies 10 University of California Press Frigid Units, Inc. 11 12 Wildscape Inc.

SFS California Chapter

13-14



SFS 2016: RUNNING ON EMPTY SFS EXHIBITORS

2016 SFS EXHIBITORS



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Reston, VA 20192

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WORKSHOPS

Introduction To R

Saturday, May 21, 9:00 am-5:00 pm

CONVENTION CENTER - ROOM 309-310

The R computing environment has become a leading computational freeware for data analysis and display. This workshop is intended to introduce participants to the "R" computing environment, participants will learn to import, export and transform data to run statistical tests and data summaries. Instructors will demonstrate several functions of R and associated packages increasing the understanding and use of the R environment. Students will be expected to bring their own computer, and will be provided with many additional resources for exploring and learning in the R environment. A basic understanding of statistics and statistical tests is required.

Introduction to Gastropods and Mollusks: Sampling and Identification 101

Saturday, May 21, 9:00 am-5:00 pm

CONVENTION CENTER - ROOM 306

The focus of this workshop is to provide participants with a background on biology and ecology of freshwater mollusks (gastropods and bivalves), sampling techniques widely accepted in the industry, and taxonomic skills for commonly encountered species. Jeremy Tiemann and Kevin Cummings of the Illinois Natural History Survey will bring knowledge and charisma to an often under recognized taxa group. Whether you're a novice aquatic ecologist, looking to gain more experience with another faunal group, or a seasoned field biologist, this workshop will be informative and a thorough overview of mollusk taxonomy and sampling. Completing this workshop will prepare participants for the much anticipated SFS- Taxonomic Certification Exam for Genus level IDs of Freshwater Mollusks.

Bioassessment Analytical Methods for Freshwater Soft-Bodied Algae

Saturday, May 21, 9:00 am-5:00 pm

CONVENTION CENTER - ROOM 311-312

Soft-bodied algae are increasingly used in freshwater bioassessment as bioindicators of ecological conditions. The methods for their analysis are variable and influence the quality of obtained ecological information. This workshop is intended to demonstrate and discuss several analytical methods for benthic soft-bodied algae currently used in US federal and state stream bioassessment programs (such as National Aquatic Resource Surveys, National Water-Quality Assessment Program, and Surface Water Ambient Monitoring Program). In addition, methods for phytoplankton and periphyton from lentic ecosystems (lakes,

wetlands) will be briefly presented. Workshop leaders, Drs. Rosalina Stancheva and Julianne Heinlein, will lead discussions regarding time and cost efforts, and the advantages of each method. During this workshop the participants will receive an overview of the methods, the data generated, and their applications to bioassessment. Participants will compare the methods by hands-on experience processing freshwater samples, using various microscope counting devices for soft-bodied algae, and identifying and quantifying the soft-bodied algae under light microscope. This workshop is intended for both new and experienced algal taxonomists as well as those managing/designing projects which include algal counts.

Stream Hydrology for Ecologists

Saturday, May 21, 9:00 am-5:00 pm

CONVENTION CENTER - ROOM 315

This 6-hour workshop is intended to be an introductory level course on stream hydrology for aquatic ecologists. This workshop will provide a conceptual overview of how hydrology and aquatic ecology intersect. Through interactive and hands-on exercises, Ken Eng (USGS) and Ted Grantham (USGS) will focus instruction on methods for obtaining and calculating flow and watershed data, prediction of natural and altered flows at ungauged locations, and modeling floodplain hydrology. All participants are required to have R (version 2.11.1 or higher) and R Studio (https://www.rstudio.com/products/rstudio/) installed on their own laptops.

Engage Science Communication Workshop: Communicate Your Research to the Public

Saturday, May 21, 9:00 am-12:00 pm or 1:30 pm-4:30 pm

CONVENTION CENTER - ROOM 302-303

Engage is an organization dedicated to teaching public speaking and science communication skills. At Engage, we train scientists to distill their knowledge without distortion or dilution. Scientists are often the leaders of their field with commanding depths of knowledge. However, these scientists struggle to clearly communicate their research to those outside their area of knowledge and the layperson. The problem isn't too little knowledge, but too much knowledge.

The primary aim of this workshop is to provide an opportunity for early career scientists to strengthen their public speaking and science communication abilities by developing a short, compelling, and jargon-free message about their research. The workshop will train participants to deliver an elevator pitch clearly and concisely with poise and confidence. This message will be accessible to many different audiences, including the public and scientists outside of the student's discipline. After developing this message, participants in this workshop will be able to adapt their communication skills and the message to multiple audiences, thereby improving their communication with the public, the media, and other scientists.

WORKSHOPS SFS 2016 PROGRAM BOOK

Taxonomic Certification Genus Level Testing - 2016

Announcement:

The TCP will be offering beta tests for Chironomidae and Mollusk images at this event. Sign up early if you wish to take part. Numbers are limited.

Image Tests are on USB sticks for this event and you will require your own laptop computer:

EPT- East or West Chironomidae- North America Mollusk- North America

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

General Arthropods- East or West Oligochaeta- North America

Test Sessions:

All testing will take place on Sunday, May 22nd., 2016 in room # 317-318 of the Sacramento Convention Center. The tests are three hours long with a half hour setup time:

Morning Session: 8:30am-12pm Afternoon Session: 12:30pm-4pm

The tests are three hours long with a half hour setup time. Please contact <code>gail.corkum@acadiau.ca</code> directly if you wish to sign up for any tests in Sacramento. Space is limited. Registration will close on April 15th, 2016.

Taxonomic Certification Committee Meeting-2016

The TCC meeting will follow the test sessions from 4-5pm in the above room. All are welcome.

Please rsvp: gail.corkum@acadiau.ca to let me know if you will be attending the TCC or not.

Taxonomy Fair

Tuesday 24 May 1:30-4:00 pm

EXHIBIT HALL C

The Taxonomy Fair at the Annual Society for Freshwater Sciences meeting is an opportunity for students and professionals alike to interact with leading experts in the fields of invertebrate and algal taxonomy. The Technical Issues Committee has gathered over 10 experts in taxonomy and systematics to assist participants in difficult and unique taxa. Taxonomic experts will gather at the Taxonomy Fair during the Wednesday evening poster session. Please bring your difficult, unknown or interesting specimens to the taxonomy fair and have them verified by experts in the field. This is an opportunity to discuss your findings with other taxonomists, collaborate on new research and learn about new advances in systematics. The Taxonomy Fair is an open session allowing for intimate one on one interaction with taxonomic experts.

This year we are proud to include a station dedicated to Adult EPT taxa that will also focus on how non-professional taxonomists can contribute phenology and ecology of aquatic insects in citizen science monitoring programs.

Please bring any specimens you wish to discuss, and remember to abide by any restrictive guidelines for traveling with specimens and EtOH.

Technical Issues Committee

Participating Taxonomic Experts:

Participant	Taxonomic Group	Affiliation	
Jeff Webb	Ephemeroptera	Rhithron Associates	
Mark Wetzel	Oligochaeta	Illinois Natural History Survey	
Ed DeWalt	Plecoptera	Illinois Natural History Survey	
Julianne Heinlein	Soft Algae	GLEC	
Jason Robinson	Trichoptera	Illinois Natural History Survey	
Kevin Cummings	Mollusks	Illinois Natural History Survey	
D. Christopher Rogers	Crustacea	Kansas Biological Survey	
Bohdan Bilyj	Chironomidae	BioTax Consultants	
Brady Richards	Coleoptera/ Hemiptera	California Dept. Fish and Game	
Rick Hafele	Citizen Science EPT Adults	Independent	
Gina LaLiberte	Diatoms	Wisconsin DNR	
Doug Post	Dytiscidae	California Dept. Fish and Game	
Fredric Govedich	Hirudinea	Southern Utah University	
Jeremy Tiemann	Gastropoda	Illinois Natural History Survey	
Dan Pickard	Acari	CSU- Chico	
Andy Rhen	Odonata	SBC Global	

SFS2016: RUNNING ON EMPTY FIELD TRIPS

SFS 2016 FIELD TRIPS

White Water Rafting on the South Fork American River

FRIDAY, MAY 20

The South Fork American River lies in the golden hillsides of the Sierra Nevada foothills, just forty miles east of Sacramento. The rafting trip with professional guides starts at the tiny hamlet of Coloma--the town where gold was first discovered in California in 1848. We chose the South Fork for your trip because it offers all the qualities that make river rafting incredibly fun: lively, approachable rapids, splashing waves, and classic California scenery. Though the rapids have overwhelming names like "Troublemaker" and "Satan's Cesspool," they are not too intimidating themselves. Exciting enough to get your heart pumping, they are still reasonable enough for kids as young as eight years old to enjoy.

The bus will pick you up at 9 am and you will be on the water from 11:00 to 4:30. For lunch, you'll enjoy a tantalizing deli spread where you assemble your sandwich from a multitude of fresh vegetables, meats and condiments. You'll snack on chips, salsa, sweet summer fruit, and finish with a tasty dessert. The rafting trip will end at Folsom Lake where the bus will pick you up for the short ride back to the convention center.

Drought, Fire, Flood and Restoration in Mountain Streams of the Sierra Nevada

THURSDAY, MAY 26

The climatic extremes of the golden State are becoming even more pronounced as high temperatures, drought, forest wildfires, and floods have altered the hydrologic environment, especially of mountain streams in the Sierra Nevada. Take a trip with us to some of the stream sites where we've been studying these effects, and whether restoration practices can serve to protect or build resilience of these iconic environments. We'll leave from Sacramento Thursday morning at 7:30 am, head east into the mountains on interstate 80, first going to Sagehen Creek to visit a site where studies of climate change and drought have gone on for the past 6 years, then down along the Truckee River to visit a large river system and impacts from sedimentation, then onto Lake Tahoe and along the beautiful west shore of this great mountain lake (lunch). At the south shore of the lake we'll visit Angora Creek where a fire decimated habitat in 2007 and is now recovering. We will also visit Trout Creek and the Upper Truckee River where meadow restoration projects are hoped to stem effects of climate change and recover hydrologic function. Returning back to Sacramento along highway 50 and the corridor of the south fork of the American River (some stops there). If this winter brings El Nino atmospheric river storms we may see some flooding effects as well. Herbst and Medhurst have studied and published on Sierra streams for many years.

Aquatic Invertebrate Field Collection Trip

THURSDAY, MAY 26

Have you ever gotten to the couplet in your favorite taxonomic key where it says "Found only in Western North America," and you have always wanted to see what that critter looks like? Well, here is your chance! Join California Taxonomists for an old fashioned, taxonomic field collection trip up into the Sierra-Nevada Mountains of California. A bus will pick us up in the morning of Thursday, May 26th, heading up to Sagehen Creek Field Station. We will collect at two stream sites, and one lake site high in the mountains before finally arriving at Sagehen.

Located within the Sagehen Experimental Forest on the eastern slope of the northern Sierra Nevada approximately 20 miles north of Lake Tahoe, Sagehen Creek Field Station has been dedicated to research and teaching since 1951. The University of California operates the station under a long-term, special-use permit from the U.S. Forest Service. The surrounding watershed is also available to researchers and classes through an agreement with the Forest Service and includes extensive stands of yellow pine, mixed conifer, and red fir forests, as well as brush fields, scattered mountain meadows, and fens. There are rustic cabins at the Field Station, so pillow, sleeping bag, outdoor equipment, and toiletries are required!

We will stay the night here at Sagehen, getting to collect both during the day, and to run a mercury vapor night light for aquatic adults. Microscopes will be available in the afternoon and evening for those who want to figure out what critters they got. Dinner, breakfast, and a sack lunch for Friday will be offered at Sagehen. We will collect a couple of other sites on Friday on the way back down to Sacramento.

EVENTS AND ACTIVITIES SFS 2016 PROGRAM BOOK

MEETINGS

Friday

SFS FINANCE COMMITTEE Friday, May 20, 3:00 pm – 5:00 pm Sheraton Hotel – Beavis Room

Saturday

FWS EDITORIAL BOARD COMMITTEE Saturday, May 21, 7:00 am – 9:00 am Sheraton Hotel – Beavis Room

SFS BOARD OF DIRECTORS MEETING Saturday, May 21, 9:00 am – 5:00 pm Sacramento Convention Center, Room 308

INSTARS ORIENTATION Saturday, May 21, 1:00 pm – 4:30 pm Convention Center – Room 304-305

Sunday

SFS COMMITTEES – LUNCH MEETINGS Sunday, May 22, 12:00 pm – 1:30 pm Sheraton Hotel – Gardenia Room ALL COMMITTEES not otherwise listed.

SFS SRC COMMITTEE LUNCH MEETING Sunday, May 22, 12:00 pm – 1:30 pm Sheraton Hotel – Camelia Room

TAXONOMIC CERTIFICATION COMMITTEE MEETING

Sunday, May 22, 4:00 pm - 5:00 pm Convention Center - Room 317-318

Monday

SFS PUBLICATIONS COMMITTEE MEETING Monday, May 23, 7:00 am – 9:00 am Sheraton Hotel – Beavis Room SFS MEMBERSHIP BUSINESS LUNCH MEETING

Monday, May 23, 12:00 pm – 1:30 pm Convention Center – Hall DE

Tuesday

CHAPTER INFORMATION SESSION Tuesday, May 24, 4:00 pm – 5:00 pm Convention Center – Room 301

Wednesday

NEW BOARD OF DIRECTORS BREAKFAST MEETING

Wednesday, May 25, 7:30 am – 9:00 am Sheraton Hotel – Falor Room

EVENTS AND ACTIVITIES

Opening Reception

Saturday, May 21, 6:00 – 7:00 pm Convention Center – Exhibit Hall C

A welcome reception to the 2016 SFS Annual Meeting will be held on Saturday, 21 May 2016 in the Convention Center Exhibit Hall C, prior to the SFS Meeting Opening and Awards session which is scheduled from 7:00-10:00 p.m. Conference registration will be open beginning at 4:00 p.m. prior to the reception to allow you to pick up your conference materials. Light hors d'oeuvres and a cash bar will be available.

SFS Student-Mentor Mixer

Sunday, May 22, 6:30 – 8:30 pm Sheraton Hotel – Camelia/Magnolia Room

SFS Mixer and Live Auction

Sunday, May 22, 7:30 – 10:00 pm Convention Center – Exhibit Hall C and Hall DE

SFS Mixer – California Chapter Hosts

Monday, May 23, 5:00 – 7:00 pm Convention Center – Exhibit Hall C

SFS Endowment Reception

Monday, May 23, 5:00 pm – 6:00 pm Sheraton Hotel – Bataglieri Room

Poster Session

Tuesday, May 24, 1:30 – 4:00 pm Convention Center – Exhibit Hall C

Fun Run

Tuesday, May 24, 4:30 pm - 6:00 pm

The SFS Annual 5k Run will be centering around Discovery Park. The starting point is the I Street Bridge near Old Sacramento State Historic Park and the Railroad Museum (where the offsite mixer will be later that evening). You'll run north on the American River Bike Trail with the Sacramento River to your left, then head northeast to the Jibboom Street Bridge and cross over the American River. Then east on the American river Bike Trail through Discovery Park. The start/finish area is located approximately 2 km from the Convention Center. Take it as a warm up walk or hop on the bus we will have departing at 4 p.m. and returning at 6 p.m. Runners will receive a Fun Run t-shirt.

OLD TOWN SACRAMENTO Offsite Social Event

Tuesday, May 24, 7:30 - 10:00 pm

Railroad Museum - Old Town Sacramento

Join us for a fun casual evening event in Old Town Sacramento at the Old Sacramento State Historic Park and the California State Railroad Museum. What used to be called the "banquet" has been reinvented for 2016 with an array of food trucks, museum access, and train rides along the Sacramento River in passenger coach cars pulled by a diesel powered locomotive. We will have access to the exhibits at the Museum of Railroad History including the spectacular Roundhouse and a display of historic locomotives. The 1849 Scene outside the museum consists of historic buildings and lawn which will be peppered with food trucks, drink carts, and live music. The Annual SFS Jam Session also takes place at this event so remember to bring your instruments of choice and join in on the fun. Tickets for this event will be provided at conference registration, and there will also be cash sales available.

Note: Wear your SFS 2016 name badge and bring your picture ID for any of the SFS mixers and social events.

SPECIAL OPPORTUNITIES AND INFORMATION FOR STUDENTS AND POST-DOCS

Outstanding Student Presentation Awards

Three hundred and four (304) student presentations were evaluated by judges at the 2015 SFS conference in Milwaukee, WI. Two hundred and fifty four (254) were presented by graduate students. Fifty (50) were given by undergraduate students. There were many fine presentations and all the students are congratulated for their participation.

2015 Award Winners

MATHEW KAYLOR

Oregon State University

Best Oral Presentation in Basic Research

"INFLUENCES OF RIPARIAN FOREST STAND DEVELOPMENT ON STREAM PERIPHYTON, INVERTEBRATE AND VERTEBRATE POPULATIONS IN CASCADE MOUNTAIN STREAMS, OR."

SOPHIE CAUVY-FRAUNIÉ

IRD French Institute for Development Research

Runner Up Oral Presentation in Basic Research

"LOW RESILIENCE OF TROPICAL RIVER BIOTA TO EXPERIMENTAL DECREASE IN GLACIER RUNOFF"

KATHERINE STANDEN

Canadian Rivers Institute, Department of Biology, University of New Brunswick

Best Oral Presentation in Applied Research

"ARROWHEAD (SAGITTARIA CUNEATA) AS A BIOINDICATOR OF NITROGEN AND PHOSPHORUS FOR PRAIRIE STREAMS"

ANA CHARA-SERNA

Department of Forest and Conservation Sciences, University of British Columbia

Runner Up Oral Presentation in Applied Research

"INDIVIDUAL AND CUMULATIVE EFFECTS OF FINE SEDIMENT, NUTRIENT ENRICHMENT, AND INSECTICIDE POLLUTION ON STREAM MICROCOSMS"

BRIAN GILL

Colorado State University

Best Presentation Emphasizing Methodology

"MEASURING ELEVATION RANGE SIZES TO TEST THE CLIMATE VARIABILITY HYPOTHESIS AND ASSESS LATITUDINAL DIFFERENCES IN SPECIES VULNERABILITY TO CLIMATE CHANGE"

KAYLEE FALTYS

South Dakota State University

Best Poster Presentation in Basic Research

"NATIVE UNIONIDAE MUSSELS IN THE GLACIATED PLAINS, SOUTH DAKOTA"

AARON MARTI

Ball State University

Best Poster Presentation in Applied Research

"MACROPHYTE ASSOCIATED MICROBIAL NITROGEN AND PHOSPHOROUS CYCLING IN AN URBAN WETLAND"

BREE BENDER

University of Wisconsin - Stevens Point

Best Oral or Poster Presentation by an Undergraduate Student "A SEASONAL DENITIRFICATION AND NITROGEN REMOVAL CAPACITY OF SMALL RESERVOIRS"

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:

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Student-Mentor Mixer

Sunday, May 22, 2016, 6:30-8:30pm

Sheraton - Camelia/Magnolia

The SFS-SRC student-mentor mixer is designed to facilitate interactions between students and experienced professionals in the field of freshwater science. Mentors may include aquatic science professors, research associates, post-doctoral researchers, government employees, and private consultants. The SFS Annual Student-Mentor Mixer is open to all undergraduate students, graduate students, and post docs, however, registration is required. The Student-Mentor mixer provides students with the opportunity to make connections with professionals who share similar interests, gain insight into future career opportunities, and receive valuable advice on navigating through the scientific research process. This mixer provides students a great opportunity to network and engage in lively conversation with mentors and peers in a relaxed environment. Every pre-registered participant (21 and over) will receive a group assignment and complimentary drink ticket.

SFS Student Resource Committee Lunch

Sunday, May 22, 2016, 12:00-1:30pm

Sheraton – Camelia

Are you an undergraduate or graduate SFS student member and interested in becoming more involved with the society? Please join the Student Resource Committee (SRC) for our annual luncheon 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. Free lunch will be provided for all student attendees.

INSTARS INFORMATION SFS 2016 PROGRAM BOOK

6TH 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 2016 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 sixth 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 Saturday, 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.

DR. CHECO COLON-GAUD

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DR. TAMARA SLUSS

Kentucky State University tamara.sluss@sysu.e.du

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East Carolina University ardonsayaom@ecu.edu

DR. KRISTA CAPPS

University of Georgia kcapps@uga.edu

SFS Instars Mentoring Workshop Orientation (Invitation Only)

Saturday, 21 May 2016, 1:00 - 4:00 pm

Sacramento Convention Center - Room 304-305

This is the sixth 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 students, faculty and professionals will be promoted as we strive to encourage diversity in our discipline. This workshop is only for Instar Fellows.

SFS2016: RUNNING ON EMPTY SESSIONS

PRESENTER INFORMATION

Concurrent Sessions: Orals

Ten concurrent sessions will be held in Sacramento Convention Center in the 3rd floor 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).

Link for uploading

http://sfsannualmeeting.org/Papers.cfm

IMPORTANT:

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

The speaker management team hours are the same as the registration hours for the conference. 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.

Session Chair Information

Please arrive 30 minutes early 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. We must keep on time! 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 talk is cancelled, 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 (except for some special session talks scheduled for 30 minutes). 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. Note that if you are chairing a 30-minute talk in a special session, the talk and any questions still must end at the same time as a second concurrent 15 minute talk would.

Poster Session

The Poster Session will take place on Tuesday, May 24 from 1:30 to 4:00 pm in the exhibit hall. Posters can be set up any time the exhibit hall is open, beginning on Saturday May 21 at 11:00 a.m. To optimize viewing and interaction opportunities we encourage presenters to leave their posters in place until Wednesday when they need to be removed by 6:00 pm.

Posters will be mounted on poster boards (provided) and must be no larger than 45 inches high by 45 inches wide. If your poster exceeds this size, it may be subject to removal. Posters will adhere to the boards using push pins that will be provided.



Historic District of Sacramento - ADOBE Stock

SESSIONS SFS 2016 PROGRAM BOOK

SESSION INDEX

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C02	Bioassessment	36-37, 45	61
C03	Biogeochemistry	32, 42-43, 48-49, 54	62
C04	Climate Change	30, 50-51	62
C05	Conservation and Restoration	45, 53	62-63
C06	Disturbance	47, 57	63
C07	Ecology of Fish and Other Aquatic Vertebrates	49	63
C08	Ecotoxicology	35	63

	CONTRIBUTED SESSIONS	ORALS	POSTERS
C09	Food Webs	48	64
C10	Hydroecology	37-38	64
C11	Invasive Species	48, 57	64
C12	Invertebrate Ecology	34, 48	64-65
C13	Land-use and Non-Point Source Impacts	33, 43	65
C17	Organic Matter Processing	38	65
C18	Population and Community Ecology	31, 44	66
C20	Gas and Oil	46	-

	SPECIAL SESSIONS	ORALS	POSTERS
S01	Future Freshwater Scientists - UNDERGRADS	31	58
S02	Climate and Drought Effects on Mountain Stream Ecosystems	40	58
S03	Global Perspectives on Environmental Flows	56	58
S04	Temporary Wetlands	42	58-59
S05	Eco-hydrology of IRES in a Changing Climate	41-42, 49	59
S06	Molecular Methods in Biomonitoring	39	59
S07	Challenges in Freshwater Conservation	34	59
S08	Hydroclimatic Extremes	32-33	59
S09	Conservation of Freshwater Mussels	38	59
S10	Rivers at Risk	55-56	59
S11	Next-Generation Sequencing in Freshwater Science	33-34	59
S12	Invertebrate Ecology	53	59-60
S13	Session for Vince Resh	51	-
S14	Multiple Stressors in River Ecosystems	41, 47, 52-53	60
S15	Putting Your Publications to Work	39-40	_
S16	Algal Data as a Component of Bioassessment	47	60
S17	Stressed Forested Watersheds	44-45	60
S18	Community Engagement in Science	30-31	60
S19	Session for Cliff Dahm	31-32	-
S20	Ecological Subsidies to Stream and Riparian Ecosystems	53	_
S21	Balancing the Freshwater Budget	37	-
S22	Biotic Responses to Food Web Alterations	43-44	_
S23	Traits-Based Vulnerability Assessment/Climate Change	40-41	60
S24	Scale and Ecosystem Functions	35	61
S25	Modeling Environmental Change in Freshwater Ecosystems	44	61
S26	Exploring Trophic Relationships and Stream Food Webs	54-55	_
S27	Contaminants as Agents of Ecological Change	36	61

SFS2016: RUNNING ON EMPTY SESSIONS

FRIDAY, MAY 20, 2016

TIME	SESSION
08:00 - 17:00	Pre-Meeting Field Trips
15:00 - 17:00	SFS Finance Meeting
	[Sheraton-Beavis]

SATURDAY, MAY 21, 2016

TIME			SES	SION		
09:00 - 17:00	SFS Board of Directors Meeting	Introduction to R	Introduction to Gastropods	Enhancing Taxonomic Data	Bioassessment Analytical	Stream Hydrology
	[308]	[309-310]	[306]	[307]	[311-312]	[315]
09:00 - 18:00			Science Commun	nication Workshop		
			[302	2-303]		
13:00 - 16:30	INSTARS Orientation					
			[304	1-305]		
16:00 - 22:00	Registration Open					
18:00 - 22:00	Exhibits Open					
	[Exhibit Hall C]					
18:00	Welcome Mixer					
	[Exhibit Hall C]					
19:00 - 22:00	SFS Meeting Opening and Awards					
			[Ha	II DE]		





Sacramento at Sunset - ADOBE Stock

SESSIONS SFS 2016 PROGRAM BOOK

SUNDAY, MAY 22, 2016

-	141711 22, 2	<u> </u>			
TIME	SESSION				
08:00 - 22:00		Ex	xhibits Open [Exhibit Ha	II C]	
08:00 - 23:00			Registration Open		
13:00 - 16:00			TCP Test Sessions		
			[317-318]		
09:00 - 09:15		Welco	ome/Announcements [Hall DE]	
09:00 - 12:00	TCP Test Sessions [317-318]				
09:15 - 10:00			PLENARY [Hall DE]		
	'DROUGHT,	FLOODS, AND ALTERNATE	STATES OF ALGAL-BASED	RIVER FOOD WEBS IN	N THE THIRSTY EEL'
			Mary Power		
10:00 - 10:30			Coffee Break		
10:30 - 12:00	302-303	304-305	306	307	308
	C04: Climate Change	S18: Community Engagement in Science	C18: Population and Community Ecology	C03: Biogeochemistry	C13: Land-use and Non-Point Source Impacts
	309-310	311-312	313	314	315
	S07: Challenges in Freshwater Conservation	C12: Invertebrate Ecology	CO8: Ecotoxicology	S21: Balancing the Freshwater Budget	C10: Hydroecology
12:00 - 13:30	Lunch On Your Own		SFS Committees Lunch Meeting	Student Resource Commit Lunch Meeting	
			[Sheraton-Gardenia]		[Sheraton-Camelia]
13:30 - 15:00	302-303	304-305	306	307	308
	C04: Climate Change	S01: Future Freshwater Scientists - UNDERGRADS	S19: Session for Cliff Dahm	S08: Hydroclimatic Extremes	S11: Next-Generation Sequencing in Freshwater Science
	309-310	311-312	313	314	315
	S07: Challenges in Freshwater Conservation	S24: Scale and Ecosystem Functions	S27: Contaminants as Agents of Ecological Change	C02: Bioassessment	C10: Hydroecology
15:00 - 15:30			Coffee Break		
15:30 - 17:00	302-303	304-305	306	307	308
	C04: Climate Change	S01: Future Freshwater Scientists - UNDERGRADS	S19: Session for Cliff Dahm	S08: Hydroclimatic Extremes	S11: Next-Generation Sequencing in Freshwater Science
	309-310	311-312	313	314	315
	S07: Challenges in Freshwater Conservation	S24: Scale and Ecosystem Functions	S27: Contaminants as Agents of Ecological Change	C02: Bioassessment	C10: Hydroecology
16:00 - 17:00			TCC Meeting [317-318]	
18:30 - 20:30		SRC Student/M	entor Mixer [Sheraton-C	Camelia/Magnolia]	
19:30 - 22:00			SFS Mixer [Exhibit Hall (C]	
20:00 - 22:00	Live Auction [Hall DE]				

SFS2016: RUNNING ON EMPTY SESSIONS

MONDAY, MAY 23, 2016

TIME			SESSION		
08:00 - 19:00	Registration Open				
08:00 - 19:00	Exhibits Ope	en			Poster Set-Up
	[Exhibit Hall	C]	[Exhibit Hall C]	I	[Exhibit Hall C]
09:00 - 09:15		Welco	me/Announcements [Hall DE	:]	
09:15 - 10:00			PLENARY [Hall DE]		
	'AQU	ATIC CALIFORNIA: ENDEM	IIC BIOTA, ENDEMIC PROBLEN	IS, ENDEMIC SOLUTI	ONS'
			Peter Moyle		
10:00 - 10:30			Coffee Break		
10:30 - 12:00	302-303	304-305	306	307	308
	C17: Organic Matter Processing	S06: Molecular Methods in Biomonitoring	S23: Traits-Based Vulnerability Assessment/ Climate Change	S14: Multiple Stressors in River Ecosystems	S05: Eco-hydrology of IRES in a Changing Climate
	309-310	311-312	313	314	315
	S04: Temporary Wetlands	C13: Land-use and Non-Point Source Impacts	C05: Conservation and Restoration	C18: Population and Community Ecology	CO2: Bioassessment
12:00 - 13:30		SFS Mem	nbership Business Lunch [Hall	DE]	
13:30 - 15:00	302-303	304-305	306	307	308
	S09: Conservation of Freshwater Mussels	S06: Molecular Methods in Biomonitoring	S23: Traits-Based Vulnerability Assessment/ Climate Change	S02: Climate and Drought Effects on Mountain Stream Ecosystems	S05: Eco-hydrology of IRES in a Changing Climate
	309-310	311-312	313	314	315
	C03: Biogeochemistry	S22: Biotic Responses to Food Web Alterations	S25: Modeling Environmental Change in Freshwater Ecosystems	S17: Stressed Forested Watersheds	CO2: Bioassessment
15:00 - 15:30			Coffee Break		
15:30 - 17:00	302-303	304-305	306	307	308
	S09: Conservation of Freshwater Mussels	S06: Molecular Methods in Biomonitoring	S15: Putting Your Publications to Work	S02: Climate and Drought Effects on Mountain Stream Ecosystems	S05: Eco-hydrology of IRES in a Changing Climate
	309-310	311-312	313	314	315
	C03: Biogeochemistry	S22: Biotic Responses to Food Web Alterations	S25: Modeling Environmental Change in Freshwater Ecosystems	S17: Stressed Forested Watersheds	C18: Population and Community Ecology
17:00 - 18:00		SFS Endown	nent Reception [Sheraton-Bat	aglieri]	
17:00 - 19:00		Conference Mixer v	vith California Chapter Hosts	[Exhibit Hall C]	

SESSIONS SFS 2016 PROGRAM BOOK

TUESDAY, MAY 24, 2016

Taura	SESSION		
Tarre			
Taxonomy Fair Set-up [Exhibit Hall C]			
	xhibits Open	Silent Au	iction Open
pen [I	Exhibit Hall C]	[Exhib	oit Hall C]
Weld	come/Announcements	[Hall DE]	
	PLENARY [Hall DE]		
'THE FUTURE OF FR	ESHWATER IN A WORL	D OF CLIMATE CHANG	E'
	Peter Gleick		
Coffee Break			
304-305	306	307	308
C20: Gas and Oil	S16: Algal Data as a Component of Bioassessment	S14: Multiple Stressors in River Ecosystems	C12: Invertebrate Ecology
311-312	313	314	315
C11: Invasive Species	C05: Conservation and Restoration	CO3: Biogeochem- istry	S05: Eco-hydrology of IRES in a Changing Climate
	Lunch On Your Owr	ı	
ession [Exhibit Hall C]		Taxonomy Fair [Exh	nibit Hall C]
ormation Session [30	01] Tax	onomy Fair Tear Dow	n [Exhibit Hall C]
Fun Run			
Offsite Social Event and Jam Session			
	rthe FUTURE OF FR 304-305 C20: Gas and Oil 311-312 C11: Invasive Species	Welcome/Announcements PLENARY [Hall DE] 'THE FUTURE OF FRESHWATER IN A WORLD Peter Gleick Coffee Break 304-305 C20: Gas and Oil S16: Algal Data as a Component of Bioassessment 311-312 313 C11: Invasive Species C05: Conservation and Restoration Lunch On Your Ownession [Exhibit Hall C] Formation Session [301] Tax	Welcome/Announcements [Hall DE] PLENARY [Hall DE] 'THE FUTURE OF FRESHWATER IN A WORLD OF CLIMATE CHANG Peter Gleick Coffee Break 304-305 306 307 C20: Gas and Oil Bioassessment 311-312 313 314 C11: Invasive Species C05: Conservation And Restoration And Restoration And Restoration Eassion [Exhibit Hall C] Taxonomy Fair [Exhibit Tear Down Fair Tear D



Sacramento Skyline - ADOBE Stock

SFS2016: RUNNING ON EMPTY SESSIONS

WEDNESDAY, MAY 25, 2016

	DAI, WIAI 23	, 2010						
TIME	SESSION							
07:30 - 09:00	New Board of Directors Breakfast [Sheraton-Falor]							
08:00 - 17:00	Registration Open Silent Auction Pickup							
09:00 - 09:15	Welcome/Announcements [Hall DE]							
09:15 - 10:00	PLENARY [Hall DE]							
	'OF DROUGHTS AND FLOODING RAINS: INNOVATIVE RESPONSES TO WATER SCARCITY IN TEMPERATE AUSTRALIA'							
	J Angus Webb							
10:00 - 10:30			Coffee Break					
10:30 - 12:00	302-303	304-305	306	307	308			
	C07: Ecology of Fish and Other Aquatic Vertebrates	CO1: Algae and Primary Production	S13: Session for Vince Resh	S14: Multiple Stressors in River Ecosystems	C05: Conservation and Restoration			
	309-310	311-312	313	314	315			
	C03: Biogeochemistry	S26: Exploring Trophic Relationships and Stream Food Webs	S10: Rivers S03: Global Perspectives on Environmental Flows		C06: Disturbance			
12:00 - 13:30	Lunch On Your Own [Offsite]							
13:30 - 15:00	302-303	304-305	306	307	308			
	C07: Ecology of Fish and Other Aquatic Vertebrates	C01: Algae and Primary Production	S13: Session for Vince Resh	S14: Multiple Stressors in River Ecosystems	S12: Urban Stream Syndrome			
	309-310	311-312	313	314	315			
	S20: Ecological Subsidies to Stream and Riparian Ecosystems	S26: Exploring Trophic Relationships and Stream Food Webs	S10: Rivers at Risk	S03: Global Perspectives on Environmental Flows	C11: Invasive Species			
15:00 - 15:30			Coffee Break					
15:30 - 17:00	302-303	304-305	306	307	308			
	C07: Ecology of Fish and Other Aquatic Vertebrates	C04: Climate Change	S13: Session for Vince Resh	S14: Multiple Stressors in River Ecosystems	S12: Urban Stream Syndrome			
	309-310	311-312	313	314	315			
	S20: Ecological Subsidies to Stream and Riparian Ecosystems	S26: Exploring Trophic Relationships and Stream Food Webs	S10: Rivers at Risk	S03: Global Perspectives on Environmental Flows	C11: Invasive Species			

THURSDAY, MAY 26, 2016

TIME	SESSION
08:00 - 19:00	Field Trips
	[Depart from Sheraton]

SUNDAY ORALS SFS 2016 SUNDAY BOOK

SUNDAY, MAY 22 ORALS

C04 Climate Change

Session Chair(s): Hamish Greig, John L. Bailey, Therese Frauendorf *Location: 302-303*

- 10:30 David Fryxell, Eric Palkovacs

 CONTEMPORARY THERMAL ADAPTATION OF A
 PREDATOR EXACERBATES ECOLOGICAL CONSEQUENCES
 OF CLIMATE WARMING
- 10:45 Emma Moffett, David Fryxell, Kevin Simon, Eric Palkovacs, Michael Kinnison
 SOME LIKE IT HOT: INTRASPECIFIC VARIATION IN CONSUMER METABOLISM AND NUTRIENT EXCRETION DRIVEN BY TEMPERATURE
- 11:00 Alan Covich, Todd Crowl, Omar Perez-Reyes
 EFFECTS OF DROUGHT ON NON-SEASONAL RAINFOREST
 STREAMS
- 11:15 Dean Jacobsen, Kirsten Seestern Christoffersen
 EQUATORIAL PRO-GLACIAL LAKES: ARE THEY DIFFERENT
 FROM THEIR HIGHER LATITUDE HOMOLOGUES?
- 11:30 James J. Roberts, Kurt D. Fausch, Mattew P. Zeigler,
 Kevin B. Rogers, Andrew S. Todd, Douglas P. Peterson,
 Mevin B. Hooten
 THE COMBINED EFFECTS OF CLIMATE CHANGE AND
 NON-NATIVE SPECIES ON SOUTHERN ROCKY MOUNTAIN
 CUTTHROAT TROUT
- 11:45 Therese C. Frauendorf, Richard MacKenzie, Rana El-Sabaawi PREDICTED CLIMATE DRIVEN CHANGES IN FLOW AFFECT STREAM NUTRIENT DYNAMICS IN HAWAII
- 13:30 Hamish Greig, Krista Capps, Jacquelyn Gill, Robert Northington, Thomas Parr, Amanda Klemmer EXPERIMENTAL EVIDENCE THAT HEMLOCK DECLINE CHANGES THE ROLE OF DETRITAL SUBSIDIES IN FRESHWATER FOOD WEBS
- 13:45 Piet F.M. Verdonschot, Ralf C.M. Verdonschot
 EFFECTS OF SHADING ON STREAM WATER
 TEMPERATURE AND STENOTHERMIC
 MACROINVERTEBRATES ALONG A EUROPEAN
 LATITUDINAL CLIMATE GRADIENT
- 14:00 Stephanie Parker

 NEON AQUATIC MACROINVERTEBRATE SAMPLING AT
 THE CONTINENTAL SCALE
- 14:15 Robert Lusardi, Randy Dahlgren
 INVERTEBRATE COMMUNITY COMPOSITION AND
 DRIVERS OF ASSEMBLAGE DISSIMILARITY BETWEEN
 RUNOFF AND SPRING-FED RIVERS
- 14:30 Barbara Hayford, R. William Bouchard, Leonard Ferrington
 LAKES IN DRYLANDS: VARIATION IN CHIRONOMID COMMUNITIES IN WESTERN MONGOLIA LAKES
- 14:45 Amanda Rugenski, Andrea Landeira-Dabarca, Carla Atkinson, Jake Sousa, Andrea Encalada, Steven Thomas, LeRoy Poff, Alex Flecker

CONTRASTING RESPONSES OF MAYFLY GROWTH TO EXPERIMENTAL WARMING ACROSS ELEVATION GRADIENTS IN TEMPERATE AND TROPICAL STREAMS

- 15:30 Jón S. Ólafsson, Benoit Demars, Gisli Mar Gislason, James Hood, Eoin O'Gorman, Ragnhildur Magnusdottir GEOTHERMALLY-HEATED STREAM ECOSYSTEMS AT AN ALTITUDINAL GRADIENT IN ICELAND
- 15:45 James Junker, Wyatt Cross, Jonathan P. Benstead,
 James Hood, Alexander Huryn, Gisli Gislason, Daniel
 Nelson, Jón Ólafson
 COMPLEX DRIVERS OF ECOSYSTEM BIOMASS AND
 ELEMENT STORAGE ACROSS A NATURAL STREAM
 TEMPERATURE GRADIENT
- 16:00 Daniel Nelson, Jonathan P. Benstead, Alexander Huryn, Wyatt Cross, James Hood, Philip Johnson, James Junker, Gisli Gislason, Jón Ólafson SYNTHESIZING THE EFFECTS OF EXPERIMENTAL WHOLE-STREAM WARMING ON COMMUNITY AND FOOD WEB STRUCTURE
- 16:15 Vincent Ouellet Jobin, Julian Olden
 LANDSCAPE POSITION DEFINES LAKE WATER LEVEL
 FLUCTUATIONS IN RESPONSE TO PAST CLIMATE IN THE
 PACIFIC NORTHWEST
- 16:30 Tomo Kurobe, Maxwell Mizel, Sarah Lesmeister,
 Dolores Baxa, Alice Tung, Swee Teh, Peggy Lehman
 IMPACTS OF THE 2014 SEVERE DROUGHT ON
 MICROCYSTIS BLOOMS IN SAN FRANCISCO ESTUARY
- 16:45 **John L Bailey, Jocelyne Heneberry, Lisa Graham**BENEATH THE SURFACE: CHANGES IN FULL
 TEMPERATURE PROFILES OF LAKES WITH WARMING
 SURFACE WATERS.

S18 Community Engagement in Science

Session Chair(s): Erick Burres

Location: 304-305

10:30 Erick Burres

BEYOND LEVERAGING RESOURCES: CITIZEN SCIENCE OFFERS REAL SCIENCE AND REAL DATA TO ADDRESS AND SOLVE REAL PROBLEMS

10:45 Joanne Hild

CONNECTING WITH OUR LOCAL ENVIRONMENT: CITIZEN SCIENCE IN ACTION

11:00 Patrick Higgins

CITIZEN WATER QUALITY MONITORING IN THE EEL RIVER WATERSHED 2012-2015

11:15 Jo A. Latimore, Paul J. Steen

SCORE THE SHORE: DEVELOPMENT OF A SHORELINE HABITAT ASSESSMENT PROTOCOL FOR A VOLUNTEER LAKE MONITORING PROGRAM

11:30 Ali Shakoor

IMPROVING COMMUNITY AWARENESS FOR DETROIT RIVER FISH CONSUMPTION GUIDELINES

SFS2016: RUNNING ON EMPTY **SUNDAY ORALS**

11:45 **Patrick Edwards**

A UNIQUE ROLE FOR CITIZEN SCIENCE IN ECOLOGICAL RESTORATION

S01 Future Freshwater Scientists - UNDERGRADS

Session Chair(s): Matt Cover

Location: 304-305

13:30 Matthew Cover, Joe Zermeno

ENGAGING FUTURE FRESHWATER SCIENTISTS AT A

REGIONAL STATE COLLEGE

Checo Colon-Gaud. Judy Li. Patina Mendez. Tamara 14:15 Sluss, Marcelo Ardon-Sayao, Krista Capps

THE INSTARS MENTORING PROGRAM: SUCCESSES, CHALLENGES, AND LESSONS LEARNED OVER 5-YEARS OF BROADENING PARTICIPATION IN FRESHWATER

SCIENCE

15:30 **Romi Burks**

> WORLDY SCIENCE: DEVELOPING UNDERGRADUATE RESEARCH AND MENTORING ACTIVITIES TO TRAIN DIVERSE GLOBAL SCIENTISTS - A NSF-IRES CASE STUDY

15:45 Nick Macias, brian dietterick

> CAL POLY'S SWANTON PACIFIC RANCH: A MODEL FOR INFORMED WATERSHED STEWARDSHIP ON CALIFORNIA'S CENTRAL COAST

16:00 Alison O'Dowd, Patina Mendez, Anne Chin, Roger Levanthal

INCORPORATING UNDERGRADUATES INTO SMALL-SCALE URBAN STREAM RESTORATION RESEARCH: A TALE OF TWO UNIVERSITIES

16:45 Allison Rober, Kevin Wyatt

> PREPARING FUTURE FRESHWATER SCIENTISTS THROUGH PROFESSIONAL DEVELOPMENT IN SCIENTIFIC TEACHING

13:45 **Elizabeth Sudduth**

> BLOOMING WHERE YOU ARE PLANTED: SCIENCE AND MENTORING AT AN OPEN-ACCESS COLLEGE

14:00 Kate Boersma, Ruth Hoover, Dominik Corral, Adam Siepielski

> WHAT DOES AN "INCLUSIVE CLASSROOM" LOOK LIKE FOR FUTURE FRESHWATER SCIENTISTS?

14:30 Arial Shogren, Janet Hsiao, Checo Colón-Gaud

> "GROWING UP" IN SFS: INSTARS PARTICIPATION FROM **MENTEES TO MENTORS**

16:15 **Rachel Stubbington**

> SHORT, ORIGINAL RESEARCH PROJECTS ARE TRANSFORMATIVE EXPERIENCES FOR UNDERGRADUATE CO-RESEARCHERS

16:30 Patina Mendez, Kurt Spreyer

> UNDERGRADUATE RESEARCH AND WRITING: USING CAPSTONE CURRICULUM ACROSS DISCIPLINES TO INCREASE STUDENT CONFIDENCE, PERFORMANCE

AND LEARNING OUTCOMES

C18 Population and Community Ecology

Session Chair(s): Christina Baker

Location: 306

10:30 Jeff Webb, Sean Sullivan, Luke Jacobus

> PRACTICAL LEVELS OF IDENTIFCATION FOR LARVAE OF BAETIS (EPHEMEROPTERA: BAETIDAE) IN NORTH

AMERICA

10:45 Natalie Stauffer-Olsen, Vincent Resh, Patrick O'Grady

THE ROLE OF TEMPORAL STRUCTURE IN AQUATIC INSECT GENETICS: A CASE STUDY IN POPULATIONS OF

BAETIS TRICAUDATUS

11:00 Cristina Salgado, Andrea Encalada, Cláudia Pascoal, Fernanda Cássio, Alexander Flecker, LeRoy Poff,

Manuel Graca

PATTERNS OF MICROBIAL DECOMPOSER DIVERSITY ALONG ALTITUDINAL GRADIENTS IN TROPICAL AND **TEMPERATE STREAMS**

11:15 Ying Kin So

> HIGH UNEXPLAINED VARIANCE IN COMMUNITY DATA? SPATIAL AUTOCORRELATION MIGHT BE THE KEY: EVIDENCE FROM MACROINVERTEBRATES IN AGRICULTURAL WETLANDS

11:30 Romain Sarremejane, Heikki Mykrä, Timo Muotka,

Jukka Aroviita, Nuria Bonada

HABITAT CONNECTIVITY AND ORGANISMS' DISPERSAL ABILITY DRIVE THE ASSEMBLY MECHANISMS OF MACROINVERTEBRATE COMMUNITIES IN RIVER **NETWORKS**

11:45 Andrew Brooks, Ben Wolfenden, Barbara Downes

DO POOLS IMPEDE STREAM INSECT DRIFT DISPERSAL?

S19 Session for Cliff Dahm

Session Chair(s): Jennifer F. Shah, Michelle Baker, Rebecca Bixby, Anna Hamilton, Mary Harner, Lydia Zeglin

Location: 306

13:30 Stan Gregory, Gary Lamberti

EARLY CAREER OF DR. CLIFF DAHM: THE OREGON

YEARS

Nicholas Aumen, Amelia Ward, Milton Ward 13:45

> INTERDISCIPLINARY COLLABORATION AND GOOD SCIENCE ACROSS FRESHWATER ECOSYSTEMS: A CLIFF

DAHM LEGACY

14:00 **H. Maurice Valett**

> ADVANCING CAREERS AND INQUIRY THROUGH INTERDISCIPLINARY RESEARCH - CND AND THE UNM HYDROGEOECOLOGY PROGRAM

14:15 James Markwiese

MICROBIAL ECOLOGY OF POLLUTION ABATEMENT

14:30 Stuart Findlay

APPRECIATING CROSS-DISCIPLINARY TRAINING IN

AQUATIC SCIENCES

SUNDAY ORALS

11:30 Brady Kohler, Robert Hall, Brad Carr 14:45 Jennifer Follstad Shah, Chelsea Crenshaw, Mary BREAKING AWAY FROM BREAKTHROUGH CURVES Harner, Dianne McDonnell, Teresa Tibbets, Lydia - ASSESSING THE HYPORHEIC ZONE IN THREE Zeglin DIMENSIONS USING GEOPHYSICAL IMAGING CLIFF DAHM'S LEADERSHIP INFLUENCE ON THE FRESHWATER SCIENCES INTERDISCIPLINARY 11:45 **Puni Jeyasingh** DOCTORAL PROGRAM CONSEQUENCES OF IRON-PHOSPHORUS LINKAGES IN **DAPHNIA** 15:30 **Julie Coonrod EVAPOTRANSPIRATION IN THE MIDDLE RIO GRANDE S08 Hydroclimatic Extremes** BOSQUE, IMPLICATIONS FOR MANAGEMENT AND Session Chair(s): Albert Ruhi, John Kominoski, John Sabo RESTORATION Location: 307 15:45 Ayesha Burdett, Corey Krabbenhoft, Thomas Turner 13:30 Mark Scheuerell, Elizabeth Holmes, Eric Ward, Steve THE RIO GRANDE IN NEW MEXICO: MULTIPLE PERSPECTIVES CREATE A GREATER UNDERSTANDING USING STATE-SPACE MODELS TO INFER PROCESSES OF THE SYSTEM FROM PATTERNS 16:00 Vicenç Acuña Albert Ruhi, Xiaoli Dong, Courtney Holt, Darold 13:45 FROM SCIENCE TO POLICY THROUGH Batzer, John Sabo TRANSDISCIPLINARY RESEARCH AN ARTIFICIAL FLOW REGIME DAMPENS TOP-DOWN 16:15 Diane McKnight, Tyler Kohler, Michael Gooseff, Lee EFFECTS IN A RIVERINE FOOD WEB Stanish. James Cullis 14:00 Qi Deng, Albert Ruhi, John S. Kominoski, Megan THE ECOLOGICAL ROLE OF FLOOD DISTURBANCE IN Hagler, John Sabo DESERT STREAMS: FROM THE SOUTHWEST TO THE BIOTIC AND ABIOTIC INFLUENCES OF FISH ANTARCTIC COMMUNITY DYNAMICS IN A U.S. SOUTHEAST RIVER 16:30 Mike Chotkowski, Nicholas Aumen 14:15 Robert O. Hall, Laurel Genzoli STEWARDING SCIENCE IN THE SAN FRANCISCO DROUGHT INTENSIFIES EUTROPHICATION IN THE ESTUARY: CLIFF DAHM'S YEARS AS DELTA LEAD KLAMATH RIVER: EVIDENCE FROM AN 8 YEARS OF SCIENTIST FOR CALIFORNIA DAILY METABOLISM 16:45 Michelle Baker 14:30 N. LeRoy Poff, Erin Larson, Boris Kondratieff, Scott COLLABORATIVE LEARNING AND INTERDISCIPLINARY Morton, Rachel Harrington, Kayce Anderson, Chris FRESHWATER FOUNDATIONS TO ENHANCE SCIENCE Funk, Alex Flecker FOR UTAH'S WATER FUTURE EXTREME NON-SEASONAL FLOODING OF STREAMS ACROSS AN ELEVATION GRADIENT - USING C03 Biogeochemistry **VULNERABILITY TRAITS TO UNDERSTAND BENTHIC** Session Chair(s): Erin Hotchkiss COMMUNITY RESPONSES TO DISTURBANCE Location: 307 15:30 John S. Kominoski, Megan Hagler, Albert Ruhi, John 10:30 H. Maurice Valett, Marc Peipoch Guell, Nicholas Sabo, Tushar Sinha, Sankar Arumugam Banish, Doug Martin, Beau Downing, Brad FLOW ANOMALIES IN SOUTHEASTERN U.S. RIVERS: Liermann, Nathan Cooke, Pat Saffel QUANTIFYING LOCAL EXTIRPATION PROBABILITIES OF RESTORATION OF THE UPPER CLARK FORK RIVER, MT: FRESHWATER FAUNA OPPORTUNITIES FOR SYNERGY 15:45 Jonathan Tonkin, Nuria Bonada, Michael Bogan, 10:45 Marc Peipoch Guell, Maury Valett **David Lytle** LINKING HABITAT HETEROGENEITY, BIOFILM DIVERSITY, SEASONALITY AND PREDICTABILITY REGULATE AND ECOSYSTEM METABOLISM IN FLOODPLAIN TEMPORAL BIODIVERSITY OF STREAM INVERTEBRATES LANDSCAPES 16:00 Logan Shoup, Matt Whiles, Jessica Fulgoni 11:00 Jay Zarnetske VARIABILITY IN MACROINVERTEBRATE ASSEMBLAGES HYDROLOGIC TRANSPORT-LIMITATIONS DOMINATE AMONG PRAIRIE HEADWATER STREAMS OF THE WATERSHED ORGANIC CARBON FLUX ACROSS THE **CENTRAL GREAT PLAINS UNITED STATES** 16:15 Sarah D'Amario, Henry Wilson, Marguerite 11:15 Dustin Kincaid, Stephen Hamilton, Martin Briggs, Xenopoulos Jay Zarnetske, Mantha Phanikumar REGIONAL DIFFERENCES IN NUTRIENT DOES DENSITY-DRIVEN NOCTURNAL WATER COLUMN CONCENTRATION-DISCHARGE RELATIONSHIPS IN

MIXING DRIVE REDOX OSCILLATIONS IN FLOCCULENT

ORGANIC SEDIMENTS?

AGRICULTURAL STREAMS

SFS 2016 SUNDAY BOOK

SFS2016: RUNNING ON EMPTY SUNDAY ORALS

16:30	Jon Marshall, Julian Greer, John Tibby, Cesca McInerney, Melanie Leng, Andrew Henderson, Glenn McGregor, Cameron Barr A 7500 YEAR RAINFALL RECONSTRUCTION FOR A DROUGHT-PRONE AUSTRALIAN REGION INDICATES WE	14:00	Mason Murphy, David Weisrock, Steven Price AN ASSESSMENT OF POPULATION STRUCTURE AND GENE FLOW IN A WIDESPREAD AQUATIC SALAMANDER UTILIZING NEXT GENERATION SEQUENCING METHODS
16:45	HAVEN'T SEEN THE WORST OF IT Megan Klaar, Alexander Milner, Anne Robertson,	14:15	Matthew Fuller, Martin Doyle RIVERSCAPE GENOMICS OF A FRESHWATER INVERTEBRATE
	Jessica Picken, Lee Brown EFFECT OF CONTRASTING EXTREME FLOODING EVENTS ON BIOTIC COMMUNITIES IN GLACIER BAY, ALASKA	14:30	Scott Hotaling, Clint Muhlfeld, J. Joseph Giersch, Omar Ali, Steve Jordan, Michael R. Miller, Gordon Luikart, David Weisrock DEMOGRAPHIC MODEL TESTING REVEALS A HISTORY
C13 Land-use and Non-Point Source Impacts Session Chair(s): Sally Entrekin			OF DIVERGENCE WITH GENE FLOW FOR A GLACIALLY- TIED STONEFLY IN A CHANGING POST-PLEISTOCENE LANDSCAPE
Location: 10:30	Maíra Bezerra, Margaret Palmer, Solange Filoso DOES COMPLIANCE WITH THE BRAZILIAN FOREST CODE MITIGATE THE IMPACTS OF SUGARCANE AGRICULTURE AND ITS LEGACY ON INSTREAM	14:45	Jane Hughes, Cameron Bishop, Daniel J. Schmidt WHOLE MITOCHONDRIAL GENOMES TO IDENTIFY GENETIC VARIATION IN A LONG-LIVED SPECIES, THE AUSTRALIAN LUNGFISH
10:45	NUTRIENT CONCENTRATIONS IN BRAZIL? Ursula Mahl, Jennifer Tank, Steve Powers, Erik Maag, Matt Trentman LINKING AGRICULTURAL CONSERVATION EFFORT TO WATER QUALITY IN THE INDIAN CREEK WATERSHED	15:30	Brian Gill, Boris Kondratieff, Andrea Encalada, LeRoy Poff, Chris Funk DETERMINING LATITUDINAL DIFFERENCES IN EFFECTS OF SPACE FOR TIME SAMPLING TRADEOFFS USING DNA METABARCODING
11:00	Delilah Clement, Alan Steinman DOES PHOSPHORUS FROM AGRICULTURAL TILE DRAINS FUEL ALGAL BLOOMS?	15:45	Sharmeen Rahman, Jane Hughes, Daniel J. Schmidt DETECTING SIGNATURES OF LOCAL ADAPTATION IN UPSTREAM AND DOWNSTREAM POPULATIONS OF PARATYA AUSTRALIENSIS
11:15	Claire Hirt, Raina Kaji, Alison Post, Galen Dively, William Lamp EXPOSURE OF AQUATIC MACROINVERTEBRATES TO GENETICALLY MODIFIED CORN DEBRIS IN AN AGRICULTURAL STREAM	16:00	Md Lifat Rahi, Peter B Mather, David A Hurwood UNDERSTANDING THE GENOMIC BASIS OF FRESHWATER ADAPTATION IN MACROBRACHIUM SPECIES
11:30	Matt Trentman, Jennifer Tank, Brittany Hanrahan, Kara Prior, Rob Davis, Sarah Roley, Todd Royer THE INTERACTION BETWEEN FLOODPLAIN RESTORATION AND CHANGING LAND COVER ON STREAM METABOLISM IN A MIDWESTERN	16:15	Lydia Zeglin, Clifford Dahm, Chelsea Crenshaw, Rich Sheibley, Cristina Vesbach MICROBIAL DIVERSITY IN DESERT STREAMS IS RELATED TO GEOCHEMISTRY AND SURFACE - SUBSURFACE INTERACTION
11:45	AGRICULTURAL STREAM Alex Webster, Mary Cadenasso VEGETATION AND CHANNEL GEOMORPHIC COMPLEXITY IN AGRICULTURAL WATERWAYS: IMPLICATIONS FOR WATER QUALITY	16:30	Xiaowei Zhang METAGENOMIC PROFILING OF ZOOPLANKTON COMMUNITY REVEAL ENVIRONMENTAL THRESHOLD OF AMMONIA IN EUTROPHIC AQUATIC ECOSYSTEM: A CASE STUDY ON TAI LAKE, CHINA
	t- Generation Sequencing in Freshwater Science hair(s): Scott Hotaling, Brian A. Gill, Debra Finn, and Jane	16:45	Beth Norman, Alexander Ruhs, Andrew Van Alst, Edward Walker INFLUENCE OF MOSQUITO LARVAE GRAZING ON LEAF- ASSOCIATED MICROBIAL COMMUNITY STRUCTURE

AND SANGER-GENERATED MOLECULAR MARKERS WITH EMPHASIS ON RESOLUTION OF THE PERLOIDEA

ASSESSING THE ECOLOGICAL DIVERSIFICATION OF CADDISFLIES WITH "BIG DATA" PHYLOGENETIC

Steffen Pauls, Karl Kjer, Wolfram Graf, Alan

Lemmon, Paul Frandsen

APPROACHES

13:45

SUNDAY ORALS SFS 2016 SUNDAY BOOK

S07 Challenges in Freshwater Conservation Session Chair(s): Alonso Ramirez, Blanca Rios-Touma		15:30	Ricardo Taniwaki, Jeremy Piggott, Silvio Ferraz, Christoph Matthaei
Location: 10:30	309-310 Alonso Ramirez FRESHWATER CONSERVATION IN CENTRAL AMERICA		TROPICAL STREAMS UNDER GLOBAL CHANGE: A CALL FOR MULTIPLE STRESSOR RESEARCH IN TROPICAL STREAMS
10:45	AND THE CARIBBEAN Roberto Reis SOUTH AMERICA: FRESHWATER FISH MEGADIVERSITY	15:45	Thiago Couto, Julian Olden DON'T BE FOOLED BY SIZE ALONE: GLOBAL TRENDS AND ECOLOGICAL IMPLICATIONS OF SMALL HYDROPOWER PLANTS
11:00	AND CONSERVATION MEGACHALLENGES Blanca Rios-Touma FRESHWATER CONSERVATION IN THE NORTHERN ANDES, CHALLENGES AND PERSPECTIVES	16:00	Tom Arsuffi DO WE HAVE THE \$ AND SENSE, ENVIRONMENTAL LITERACY AND ETHICS TO PROTECT OUR NATURAL RESOURCE CAPITAL??? PROBABLY NOT!
11:15	David Angeler, Craig Allen, Hannah Birgé, Brendan McKie, Stina Drakare, Richard Johnson MANAGEMENT OF FRESHWATER ECOSYSTEMS UNDER	16:15	Miguel Cañedo-Argüelles SAVING FRESHWATER FROM SALTS
11:30	FAST ENVIRONMENTAL CHANGE Stefanie Kroll, David Keller, Richard Horwitz, John Jackson, Scott Haag, Alison Minerovic, Frank Acker	16:30	Joan Damerow CONSERVATION STATUS AND VULNERABILITY OF AQUATIC INSECTS
	PLANNING AND ASSESSING RESTORATION USING MULTIPLE INDICATOR MONITORING AND INTEGRATED DATA MANAGEMENT IN THE DELAWARE RIVER BASIN	16:45	David Dudgeon APOCALYPSE NOW? THE PROSPECTS FOR FRESHWATER BIODIVERSITY IN ANTHROPOCENE ASIA.
11:45	Donald Sada, Rina Schumer, Ryan Morrison, Mark Hausner, Mark Stone ENVIRONMENTAL AND BIOLOGICAL RESPONSES TO INCREMENTAL DECREASES IN SPRING DISCHARGE:	Session C	ertebrate Ecology hair(s): Tim Jardine 311-312
13:30	EXAMPLES FROM THE GREAT BASIN AND MOJAVE DESERTS, USA David Penrose WATER QUALITY IN NEPAL	10:30	Jessica Lund, Scott Wissinger, Bobbi Peckarsky CADDISFLY BEHAVIORAL RESPONSES TO DRYING CUES IN TEMPORARY PONDS: IMPLICATIONS FOR EFFECTS OF CLIMATE CHANGE
13:45	Sonali Saha, Amartya Saha, Bashida Massar BUILDING TECHNOLOGICAL CAPACITY TO STRENGTHEN COMMUNITY PARTICIPATION FOR CONSERVATION OF FRESHWATER ECOSYSTEMS IN TROPICAL ASIA	10:45	Stephen Srayko, Iain Phillips, Tim Jardine, Doug Chivers SPECIES-SPECIFIC FEEDING PATTERNS OF CORIXIDS (HEMIPTERA: CORIXIDAE) AS INDICATED BY STABLE ISOTOPE ANALYSIS
14:00	Subodh Sharma, Hasko Nesemann BIODIVERSITY ASSESSMENT, ECOSYSTEM SERVICES, AND DRIVERS OF CHANGE: A REVIEW OF THE MACROINVERTEBRATES IN THE SOUTH ASIAN HINDU- KUSH HIMALAYAN FRESHWATER REGION	11:00	Mallary Clay POPULATION STRUCTURE OF BURROWING BOG CRAYFISHES (FALLICAMBARUS SPP.) IN SOUTH ALABAMA, USA
14:15	Assefa Mitike Janko FISHERMEN'S WILLINGNESS TO PAY FOR FRESH WATER FISHERIES MANAGEMENT: THE CASE OF LAKE ZEWAY, ETHIOPIA	11:15	Eric Sazama, Carmelita Shouldis, Scot Ouellette, Jeff Wesner PREVALENCE AND SPATIAL DISTRIBUTION OF WOLBACHIA WITHIN AQUATIC INSECTS OF THE MISSOURI RIVER AND ASSOCIATED DRAINAGES
14:30	Ryan Reihart, Camille McNeely, Andy Miller WHITE STURGEON (ACIPENSER TRANSMONTANUS) LARVAE FEEDING ECOLOGY AND PREY AVAILABILITY IN THE UPPER COLUMBIA RIVER, USA	11:30	Don W Schloesser, Dave M Malakauskas, Sarah J Malakauskas FRESHWATER POLYCHAETES IN THE DETROIT RIVER OF THE LAURENTIAN GREAT LAKES: ABUNDANCE AND
14:45	Danielle Courcelles, John Richardson, Rylee Murray, Joshua Malt, Wendy Palen SEDIMENT AND TADPOLES IN STREAMS WITH RUN-OF- RIVER HYDROPOWER PROJECTS	11:45	Rebecca Wilson, William Lamp FINDING THE SPATIAL CONNECTION BETWEEN PRODUCTIVE LARVAL HABITATS AND ADULT NUISANCE SWARMS OF THE BLACK FLY SIMULIUM JENNINGSI (DIPTERA: SIMULIIDAE)

SFS2016: RUNNING ON EMPTY SUNDAY ORALS

S24 Scale and Ecosystem Functions

Session Chair(s): John Kominoski, Amy Rosemond

Location: 311-312

- 13:30 Wil Wollheim, Walter Dodds, Matt Whiles, Ken Sheehan, Rob Stewart, Ford Ballantyne, Christina Baker, William Bowden, Kaitlin J. Farrell, Michael Flinn, Keith Gido, Tamara Harms, Ashley Helton, Jeremy Jones, Lauren Koenig, William McDowell, Sam Parker, Amy Rosemond, Janine Ruegg, Chao Song, Matt Trentman, John S. Kominoski SCALING LAWS FOR AQUATIC METABOLISM VS. WATERSHED SIZE
- 13:45 Walter Dodds, Wil Wollheim, Alba Argerich,
 Christina Baker, Ford Ballantyne, Breck Bowden,
 Michelle Evans-White, Kait Farrell, Michael Flinn,
 Brian Frenette, Garcia Erica, James Guinnip, Tamara
 Harms, Skyler Hedden, Sophie Higgs, David
 Hoeinghaus, Jeremy Jones, Lauren Koenig, John S.
 Kominoski, Danelle Larson, Richard Lehrter, Robert
 Mapes, William McDowell, Damien McMaster,
 Samuel Parker, Brooke Penaluna, Amy Rosemond,
 Janine Ruegg, Jeffrey Scott, Ken Sheehan, Adam
 Siders, Chao Song, Margaret Spangler, Ryland
 Taylor, Matt Trentman, Matt Whiles
 IMPLICATIONS OF SPATIAL HETEROGENEITY FOR
 SCALING LOTIC METABOLISM
- 14:00 Jim Heffernan, Alison Appling, Emily Bernhardt,
 Natalie Griffiths, Robert Hall, Jud Harvey, Maite
 Arroita, Emily Stanley, Edward Stets, David Lorenz,
 Jordan Read, Charles Yackulic
 ANNUAL METABOLISM OF US STREAMS AND RIVERS
- 14:15 Jesse Vance, Keli Goodman, Claire Lunch
 CONTINUOUS AQUATIC ECOSYSTEM METABOLISM
 AND SCALING FROM THE SITE TO THE CONTINENT
 USING THE NATIONAL ECOLOGICAL OBSERVATORY
 NETWORK
- 14:30 Eric Scholl, Wyatt Cross, Yuka Tsutsui, Hailey Gelzer, Addie Dutton, Christopher Guy, Colden Baxter, Jay Rotella

FOOD WEB PERSPECTIVES FOR LARGE, MOBILE FISHES: THE IMPORTANCE OF MATCHING FOOD RESOURCE AVAILABILITY WITH CONSUMER MOVEMENT

- 14:45 Clara Mendoza-Lera, Thibault Datry
 HYPORHEIC ZONE HYDRAULIC CONDUCTIVITY AND
 ITS ROLE ON ECOSYSTEM PROCESSES: A REACH-SCALE
 APPROACH
- 15:30 Natalie A. Griffiths, Stephen D. Sebestyen
 QUANTIFYING VARIABILITY IN PEATLAND POREWATER
 CHEMISTRY IN THE CONTEXT OF A LARGE-SCALE
 CLIMATE CHANGE EXPERIMENT
- 15:45 Hilary Madinger, Robert Hall
 SCALING FLUXES OF NITROGEN FIXATION BETWEEN
 CHAMBERS AND THE STREAM REACH

- 16:00 Kaitlin J. Farrell, Amy D. Rosemond, Ford Ballantyne,
 Chao Song, John S. Kominoski
 SCALING OF METABOLISM AND NUTRIENT UPTAKE
 IN A HEADWATER STREAM NETWORK: WHAT DRIVES
 ECOSYSTEM PROCESSES AT MULTIPLE MEASUREMENT
 SCALES?
- 16:15 Samuel Parker, Breck Bowden, Michael Flinn, Joshua Benes, Kyle Arndt, Courtney Giles, Derrick Jent

THE EFFECT OF SEDIMENT PARTICLE SIZE ON BENTHIC COMMUNITY RESPIRATION AND PRODUCTIVITY IN HIGH LATITUDE STREAMS

- 16:30 Joseph Lee-Cullin, Jay Zarnetske, Sydney Ruhala,
 Stephen Plont, Evan Wiewiora
 STREAM NETWORK STRUCTURE AND SPATIAL
 MEASUREMENT SCALES INFLUENCE DISSOLVED
 ORGANIC CARBON CHARACTERIZATIONS ACROSS A
 WATERSHED
- 16:45 Erin R. Hotchkiss, Paul A. del Giorgio
 CARBON TRANSPORT, LOSSES, AND REPLENISHMENT
 IN A BOREAL RIVER DISCONTINUUM: PROCESSES
 CONTROLLING LARGE-SCALE PATTERNS

C08 Ecotoxicology

Session Chair(s): Michael Griffith

Location: 313

10:30 Michael Griffith

WHAT PHYSIOLOGICAL RESEARCH ON ION TRANSPORT SUGGESTS ABOUT THE POTENTIAL TOXICITY OF SULFATE

10:45 Lee Grapentine

ENVIRONMENTAL FACTORS ASSOCIATED WITH BENTHIC COMMUNITY DEGRADATION ALONG A GRADIENT OF CONTAMINATION IN ACID MINE DRAINAGE-EXPOSED LAKES

- 11:00 Christopher Kotalik, William Clements, Pete Cadmus
 STREAM BENTHIC AND ALGAL COMMUNITY
 RESPONSES TO HEAVY METALS: AN EVALUATION OF
 ENDPOINT SENSITIVITY
- 11:15 **David Buchwalter, Adeline Lopez**ARSENIC DYNAMICS AT THE BASE OF AQUATIC FOOD WEBS
- 11:30 Laura Barral-Fraga, Diego Prieto, María Teresa Barral, Francesc Rubio-Gracia
 BIOFILM ROLE IN AN ARSENIC-POLLUTED RIVER
- 11:45 Francesc Rubio-Gracia, Baigal-Amar Tuulaikhuu,
 Berta Bonet, Laura Barral-Fraga, Kit Magellan, Anna
 M. Romaní
 INFLUENCES OF ARSENIC ON FRESHWATER BIOFILMS,
 FISH AND THEIR NUTRIENT CYCLING INTERACTIONS

S27 Contaminants as Agents of Ecological ChangeSession Chair(s): Michelle Hornberger, Emma Rosi-Marshall

SUNDAY ORALS SFS 2016 SUNDAY BOOK STRESSED FRESHWATER SYSTEMS: SSRIS Location: 313 (ANTIDEPRESSANTS) AFFECT STREAM ECOSYSTEM Emily Bernhardt, Emma Rosi-Marshall, David 13:30 FUNCTION AT ENVIRONMENTALLY-RELEVANT CONCENTRATIONS **ECOSYSTEM TOXICOLOGY? RECOGNIZING** CONTAMINANTS AS AGENTS OF GLOBAL CHANGE **C02** Bioassessment AFFECTING ECOSYSTEM PROCESSES Session Chair(s): Allison Roy, Jan Ciborowski 13:45 David Walters, Johanna Kraus, Travis Schmidt, Location: 314 **Emma Rosi-Marshall** 13:30 Deborah Silva, Robert Hughes, Alan Herlihy, Marcos CONTAMINANT AND ENERGY FLUXES THROUGH FOOD WEBS AS AN INTERSECTION BETWEEN ECOSYSTEM CURRENT AND FUTURE PERSPECTIVES ON THE SCIENCE AND ECOTOXICOLOGY EVALUATION, DEVELOPMENT AND APPLICATION OF 14:00 Travis Schmidt, Holly Rogers, David Walters, BENTHIC MULTIMETRIC INDICES FOR NEOTROPICAL Johanna Kraus SAVANNA STREAMS CONTAMINANTS AS AGENTS OF ECOLOGICAL CHANGE 13:45 Bernard Sweeney, Anthony Aufdenkampe, Beth IN FRESHWATER AND RIPARIAN ECOSYSTEMS Fisher 14:15 Matthew Chumchal, Frank Greenhill, Ashlyn ADVERSE EFFECTS OF URBAN CENTERS ON Courville, Luke Lossau, Ray Drenner, James THE PHYSICAL, CHEMICAL, AND BIOLOGICAL Kennedy, Charlie Gober CHARACTERISTICS OF THE PARO, THIMPHU, AND PUNA EFFECT OF POND PERMANENCE ON AQUATIC TSANG RIVERS IN BHUTAN INSECT-MEDIATED FLUX OF METHYLMERCURY TO 14:00 James Kurtenbach TERRESTRIAL ECOSYSTEMS SEASON EFFECTS ON A MACROINVERTEBRATE 14:30 Edward Williams, Matthew Chumchal, Ray Drenner, INTEGRITY INDEX (MII) DEVELOPED FOR STREAMS OF James Kennedy **PUERTO RICO** EFFECTS OF FISH ON ODONATE-MEDIATED METHYL MERCURY FLUX FROM EXPERIMENTAL PONDS 14:15 James Stribling, Benjamin Jessup, Erik Leppo, Valerie Alley, Alice Dossett 14:45 **Brian Wolff, William Clements** DATA QUALITY ASSOCIATED WITH THE MISSISSIPPI-CONTEXT-DEPENDENT RESPONSES OF AQUATIC BENTHIC INDEX OF STREAM QUALITY COMMUNITIES TO CONTAMINANTS AND OTHER 14:30 Benjamin Jessup, James Stribling, Erik Leppo, ANTHROPOGENIC STRESSORS Valerie Alley 15:30 Lauren Kinsman-Costello, Jonathan O'Brien, Stephen RECALIBRATION AND TESTING OF THE MISSISSIPPI-Hamilton BENTHIC INDEX OF STREAM QUALITY **BIOGEOCHEMISTRY OF NATURAL STRESSORS IN** 14:45 Jan Ciborowski, Katya Kovalenko, Ted Angradi, FRESHWATER SEDIMENTS David Barton, Yakuta Bhagat, Valerie Brady, Meijun 15:45 Terry Short, Michelle Hornberger Cai, Kenneth Krieger, Michelle Bowman, Sigrid PERIPHYTON PRODUCTIVITY AND METAL UPTAKE IN A Smith, David Allan, Lucinda Johnson MINING IMPACTED RIVER ZOOBENTHIC INDICATORS OF THE CONDITION OF LAKE 16:00 Brittanie Dabney, William Clements, Jacob ERIE AND THE GREAT LAKES NEARSHORE Williamson, James Ranville 15:30 Michael Shupryt, Jonathan Kult ASSESSING THE COMBINED EFFECTS OF METAL ESTIMATING AND UNTANGLING THE EFFECTS CONTAMINATION AND SEDIMENT DEPOSITION ON OF SAMPLING AND TEMPORAL VARIABILITY OF BENTHIC INVERTEBRATE COLONIZATION MACROINVERTEBRATE AND FISH BIOLOGIC INDICES 16:15 FOR STREAMS IN WISCONSIN, USA. Raissa Mendonca, Christian Schlekat, Emily Garman, Jennifer Daley, Michelle Hudson, G. Allen Burton, 15:45 Kai Chen, Qiuwen Chen, Yangdong Pan, Beixin **David Costello** Wang, Robert Hughes COUPLING GEOCHEMISTRY AND COMMUNITY CONCORDANCE IN BIOLOGICAL CONDITION **ECOLOGY: EFFECTS OF NICKEL-CONTAMINATED** AND BIODIVERSITY BETWEEN DIATOM AND SEDIMENTS ON BENTHIC MACROINVERTEBRATE MACROINVERTEBRATE ASSEMBLAGES IN CHINESE **COMMUNITIES** ARID-ZONE STREAMS 16:30 Matthew Ross, Fabian Nippgen, Kristofor Voss, 16:00 Billy Justus, David Burge, Jennifer Cobb, Travis Brian McGlynn, Emily Bernhardt Marsico, Jennifer Bouldin CONTAMINANTS IN TIME AND SPACE: MOUNTAINTOP A COMPARISON OF MACROINVERTEBRATE AND MINING IMPACTS ON STREAM HYDROLOGY, DIATOM METRICS FOR INDICATING WATER-QUALITY **BIOGEOCHEMISTRY AND MACROINVERTEBRATES** CONDITIONS IN CONNECTED DEPRESSION WETLANDS 16:45 Emma Rosi-Marshall, Erinn Richmond, Ross IN THE MISSISSIPPI ALLUVIAL PLAIN Thompson, Michael Grace 16:15 Catherine Bentsen, Allison Roy, David Armstrong

SFS2016: RUNNING ON EMPTY **SUNDAY ORALS** ACCOUNTING FOR BIOTIC VARIABILITY IN URBANIZING 11:00 Terutaka Mori, Kei Uchida, Yuichi Kayaba STREAMS: THE ROLE OF LOCAL AND LANDSCAPE ABIOTIC AND BIOTIC HOMOGENIZATION BY DAMS IN **FACTORS** STREAM ECOSYSTEMS 16:30 Robert B. Brua, Natalie Izral, Joseph Culp, Adam 11:15 **Antoine Aubeneau** RIVERBED FRACTAL TOPOGRAPHY AND HYPORHEIC USING THE CRAYFISH METABOLOME TO ASSESS RESIDENCE TIME DISTRIBUTIONS **HUMAN LAND USE ACTIVITIES** Fredric Windsor, Alexander Milner, Michael Grocott 11:30 16:45 Justin Pomeranz, Jon Harding, Helen Warburton UPSCALING HYDROECOLOGICAL UNDERSTANDING CAN MASS-ABUNDANCE RELATIONSHIPS DETECT OF GROUNDWATER-FED STREAM SYSTEMS ACROSS **ECOLOGICAL IMPACTS ACROSS A CONTAMINANT** DENALI NATIONAL PARK (DNP), INTERIOR ALASKA **GRADIENT?** Silvia Folegot, Joe Cullin, Jen Drummond, David 11:45 Hannah, Toralf Keller, Megan Klaar, Marie Kurz, S21 Balancing the Freshwater Budget Mark Ledger, Eugènia Martí, Jay Zarnetske, Stefan Session Chair(s): Joseph Morgan, Kenton Sena Krause Location: 314 WATER LEVEL CONTROLS ON SURFACE WATER 10:30 Joseph Morgan, Palmer Hough HEATING AND STREAM-BED TEMPERATURE PATTERNS **EVALUATING COMPENSATORY MITIGATION UNDER** IN ARTIFICIAL RIVERS THE CLEAN WATER ACT: THE STATE OF THE SCIENCE 13:30 Jack McLachlan, Braden Adams, Erin Nolan, Hamish 10:45 Kenton Sena, Joseph Morgan, Brian Topping **EVALUATING STREAM COMPENSATION** DRAINING THE TANK TWICE A DAY: WHAT TIDAL PERFORMANCE: OVERCOMING THE DATA DEFICIT FRESHWATERS CAN TELL US ABOUT THE ROLE OF THROUGH STANDARDIZED STUDY DESIGN HYDROLOGY IN BENTHIC COMMUNITY STRUCTURE 11:00 Kelly Hondula, Margaret Palmer 13:45 Chad Wiseman, Brian Marotz, Jarvis Caldwell, MITIGATION MISMATCHES: FCOLOGICAL Robert Sherrick, David Ward INTERPRETATION OF SOME COMMON ASSUMPTIONS BENTHIC RESPONSE TO FLOW ALTERATION IN A NEW UNDERLYING MITIGATION PROTOCOLS MEXICO ARID MOUNTAIN STREAM Eduardo J. Martin, Christopher Robinson, Michael 11:15 14:00 Scott Miller, Matt Schroer, Theodore Kennedy, Jesse Doering INCORPORATING FLOW/SEDIMENT REGIMES IN RIVER NOVEL HYDROLOGIC REGIMES DISRUPT INSECT LIFE RESTORATION MONITORING HISTORY STRATEGIES: EFFECTS OF HYDROPEAKING ON INSECT OVIPOSITION 11:30 Brendan McKie, André Frainer, Eliza Maher Hasselquist, Lina E. Polvi, Roland Jansson, Christer Pierre Chanut, Christopher Robinson, Thibault Datry 14:15 Nilsson LINKING HYDROLOGY AND A MACROINVERTEBRATE QUANTIFYING THE RESTORATION OF HABITAT METACOMMUNITY ASSEMBLY IN A REGULATED COMPLEXITY AND ITS EFFECTS ON MULTIPLE **FLOODPLAIN** ORGANISM GROUPS AND ECOSYSTEM FUNCTIONING 14:30 Kate Macneale, Ray Timm, Andrew Gendaszek 11:45 Francesca Pilotto, Brendan McKie, Lina E. Polvi, RESTORATION OF LARGE WOOD TO A SALMONID **Christer Nilsson** STREAM IN WESTERN WASHINGTON: LOOKING FOR RESTORING STREAM PHYSICAL HETEROGENEITY: EFFECTS BEYOND PHYSICAL HABITAT STRUCTURE EFFECTS ON BENTHIC MACROINVERTEBRATES 14:45 Peter Caldwell, Andy Hartsell, Chelcy Miniat, **Katherine Elliott** C10 Hydroecology EFFECTS OF FOREST MESOPHICATION ON Session Chair(s): Ute Risse-Buhl, Claire Ruffing, Robert Smith STREAMFLOW ACROSS THE EASTERN US Location: 315 15:30 Micah Bennett, David Harlan, James Bergan, 10:30 Katie Fogg, Geoffrey Poole, Scott O'Daniel, Robert Gregory Whitledge, Matt Whiles, Michele Eddy, Payn, Sam Carlson, Amanda Hyman Jessie Allen. Bryan Piazza WHEN AND HOW DYNAMIC HYPORHEIC HYDROLOGIC FILTERING OF FISH LIFE HISTORIES: TEMPERATURE MOSAICS INFLUENCE CHANNEL EFFECTS OF DOWNSCALING ON THE GENERALITY OF **TEMPERATURE REGIMES** PATTERNS IN LOUISIANA FISH COMMUNITIES 10:45 Byron Amerson, Geoffrey Poole, Scott O'Daniel, 15:45 Ryan Peek, Helen Dahlke, Sarah Yarnell Michael Lambert SELECTIN ANNUAL TEMPERATURE SIGNALS FOR LINKING WATER SOURCE SIGNATURES WITH NATIVE INVERSE MODELING OF AQUIFER HYDRAULIC AMPHIBIAN BREEDING TIMING IN A NORTHERN

PROPERTIES

SIERRA NEVADA WATERSHED

MONDAY ORALS SFS 2016 PROGRAM BOOK

16:00	Ute Risse-Buhl, Christine Anlanger, Katalin Kalla, Thomas R. Neu, Christian Noss, Antonis Chatzinotas, Andreas Lorke, Markus Weitere EFFECT OF HYDRODYNAMICS ON MICROBIAL BIOFILM COMMUNITIES REVEALED BY IN-SITU MEASUREMENTS IN MOUNTAINEOUS STREAMS	Session C	servation of Freshwater Mussels hair(s): Erin Miller 302-303 Jeremy Tiemann, Alison Stodola, Sarah Douglass,
			Kevin S. Cummings VERMILION RIVER MUSSEL PROJECTS – FROM REINTRODUCTIONS TO DAM REMOVAL
16:15	Catherine Docherty, David Hannah, Alexander Milner TEMPORAL AND SPATIAL CHANGES IN MACROINVERTEBRATE ABUNDANCE AND DIVERSITY IN STREAMS OF VARYING STABILITY IN NORTHEAST GREENLAND	13:45	Jason Wisniewski, Sandy Abbott, Andrew Gascho Landis STREAMFLOW AUGMENTATION AS A SHORT-TERM ACTION FOR FRESHWATER MUSSELS CONSERVATION
16:30	Daniel M. Baldassarre, Robert B. Brua, Joseph M. Culp, Adam G. Yates	14:00	Jason Carmignani, Allison Roy IMPACT OF WINTER DRAWDOWNS ON MUSSEL DISTRIBUTIONS IN MASSACHUSETTS (USA) LAKES
	MINIMAL EFFECTS OF FLOW PERMANENCY ON BENTHIC INVERTEBRATE COMMUNITY COMPOSITION ALONG THE LONGITUDINAL PROFILE OF A PRAIRIE STREAM	14:15	Shana Gross, Erin Miller WESTERN PEARLSHELL MUSSEL (MARGARITIFERA FALCATA) NATIVE MUSSEL RELOCATION STUDY
16:45	Phillip Blaen, Marie Kurz, Julia Knapp, Clara Mendoza-Lera, Joseph Lee-Cullin, Megan Klaar, Jen Drummond, Anna Jaeger, Jay Zarnetske, Joerg	14:30	Kaylee Faltys, Nels Troelstrup USING QUALITATIVE SURVEYS TO IDENTIFY AREAS FOR UNIONID CONSERVATION IN SOUTH DAKOTA, USA
	Lewandowski, Stefan Krause MULTI-SCALE CONTROLS ON SPATIAL VARIABILITY IN RIVER BIOGEOCHEMICAL CYCLING	14:45	Candice Bauer, David Soucek, Sandy Raimondo, Christopher Ingersoll, Edward Hammer, Ning Wang CAN IMPROVED LABORATORY TOXICITY DATA FOR FRESHWATER MUSSELS LEAD TO BETTER PROTECTION OF IMPERILED MUSSEL POPULATIONS?
MON	IDAY, MAY 23, ORALS	15:30	leva Roznere, Marymegan Daly, Barbara Wolfe,
Session C	anic Matter Processing hair(s): Kenneth Fortino 302-303		G. Thomas Watters HEALTH ASSESSMENT OF FRESHWATER MUSSELS USING METABOLITE PROFILING
10:30	Jason Taylor BROWN PATHWAYS IN GREEN SYSTEMS: SOURCE, HABITAT AND NUTRIENT EFFECTS ON ORGANIC MATTER BREAKDOWN IN LOWER MISSISSIPPI RIVER	15:45	David Richards, Theron Miller STATUS OF UTAH'S NATIVE MUSSELS AND REASONS FOR THEIR DECLINE: FOCUS ON METAPOPULATION DYNAMICS
10:45	BASIN AGRICULTURAL BAYOUS Marcelo Moretti, Pâmela Barbosa EFFECTS OF THE GRADUAL EXCLUSION OF MACROCONSUMERS AND INVERTEBRATE SHREDDERS ON LEAF DECOMPOSITION	16:00	Traci Popejoy, Charles R. Randklev, Steve Wolverton, Lisa Nagaoka USING ZOOARCHAEOLOGICAL DATA FOR UNIONID CONSERVATION: A CASE STUDY FOR A CENTRAL TEXAS RIVER
11:00	Kenneth Fortino, Jennifer Andrews, Vlad Gulis, Julia Marcellus, Kaitlyn Peters, Matthew Waters IMPACTS OF TERRESTRIAL LEAF LITTER ON THE SEDIMENTS OF SMALL MAN-MADE PONDS IN CENTRAL VIRGINIA	16:15	Ellen Preece EVALUATION OF ENVIRONMENTAL DNA TO CHARACTERIZE THE PRESENCE OF FRESHWATER MUSSELS IN THE SACRAMENTO-SAN JOAQUIN DELTA
11:15	Arial Shogren, Jennifer Tank, Diogo Bolster BIOFILM COLONIZATION AND SUBSTRATE INFLUENCE PARTICLE RETENTION IN EXPERIMENTAL STREAMS AT	16:30	Dave Thomas VALIDATION OF ENVIRONMENTAL DNA FOR DETERMINING PRESENCE OF UNIONID MUSSELS IN A RIVER ENVIRONMENT
11:30	ND-LEEF Rebecca Eckert, William Lamp MACROINVERTEBRATE DIVERSITY ASSOCIATED WITH PERIPHYTIC ALGAE ON LEAF DEBRIS	16:45	Kevin S. Cummings, Daniel L. Graf THE FRESHWATER MUSSELS (BIVALVIA: UNIONOIDA) OF SOUTH AMERICA AND THEIR CONSERVATION STATUS

SFS2016: RUNNING ON EMPTY MONDAY ORALS

S06 Mol	ecular Methods in Biomonitoring	14:30	Christy Meredith, Anett Trebitz, Greg Peterson,
Session C	hair(s): Erik Pilgrim, Eric Stein 304-305	200	Julie Lietz, Chelsea Hatzenbuhler, Erik Pilgrim, Sara Okum, John Martinson, Joel Hoffman
10:30	Erik Pilgrim, Eric Stein MOVING GENETIC BIOMONITORING FROM A CONCEPT TO A TOOL		THE TRUTH IS OUT THERE: INTEGRATING DNA- BASED DATA INTO BIOASSESSMENTS IMPROVES OUR UNDERSTANDING OF SPECIES DISTRIBUTIONS AND SPECIES-HABITAT RELATIONSHIPS
10:45	Caren Goldberg, Katherine Strickler, Alexander Fremier 15:30	15:30	Donald Baird
	ADAPTIVE SAMPLING TO IMPROVE SPECIES DETECTION USING ENVIRONMENTAL DNA		BIOMONITORING, BUT NOT AS WE KNOW IT. MEETING THE CHALLENGE OF DNA-BASED OBSERVATION IN BIOASSESSMENT.
11:00	Eric Larson, Mark Renshaw, Crysta Gantz, John Umek, Sudeep Chandra, Scott Egan, David Lodge A TEST OF ENVIRONMENTAL DNA FOR BENTHIC ARTHROPODS USING THE RECIPROCAL INVASIVE RANGES OF THE RUSTY (GREAT LAKES) AND SIGNAL	15:45 16:00	Vasco Elbrecht, Florian Leese GROUND TRUTHING DNA METABARCODING: PRIMERS, BIOMASS AND SPECIMEN SORTING Valentin Vasselon, Isabelle Domaizon, Maria Kahlert,
	CRAYFISHES (CALIFORNIA, NEVADA)	20.00	Frédéric Rimet, Agnès Bouchez
11:15	Jonas Bylemans, Elise Furlan, Christopher Hardy, Mark Lintermans, Dianne Gleeson AN ENVIRONMENTAL DNA BASED METHOD FOR MONITORING SPAWNING ACTIVITY: A CASE STUDY USING THE ENDANGERED MACQUARIE PERCH (MACQUARIA AUSTRALASICA)		TOWARDS STANDARDIZATION OF DNA EXTRACTION FOR NEXT-GENERATION BIOMONITORING WITH DIATOMS
		16:15	Agnès Bouchez, Cecile Chardon, François Keck, Frédéric Rimet, Kalman Tapolczai, Valentin Vasselon METABARCODING AND HIGH-THROUGHPUT
11:30	Barry Baldigo, Lee Ann Sporn, Scott George EFFICACY OF ENVIRONMENTAL DNA TO DETECT AND QUANTIFY BROOK TROUT POPULATIONS IN STREAMS		SEQUENCING FOR ASSESSING RIVER ECOLOGICAL QUALITY WITH DIATOM INDICES AT THE SCALE OF A REGULAR MONITORING NETWORK.
	OF THE ADIRONDACK MOUNTAINS, NEW YORK, USA	16:30	Richard Mitchell, Lester Yuan, Amina Pollard, Erik Pilgrim COMPARING METAGENOMIC AND MORPHOLOGICAL PERIPHYTON ASSEMBLAGE DATA TO MAJOR ENVIRONMENTAL GRADIENTS
11:45	Kristy Deiner, Yiyuan Li, Mark Renshaw, Michael Pfrender, David Lodge, Christopher Jerde WHEN SHOULD YOU USE GENETIC DETECTION OF A SINGLE SPECIES VERSUS ENVIRONMENTAL DNA		
	METABARCODING IN MANAGEMENT? Nicole-Marie Novodvorsky, Lynne Witty, Mehrdad Hajibabaei, John L Bailey COMPARISON OF ZOOPLANKTON SPECIES IDENTIFICATION USING ENVIRONMENTAL DNA AND MORPHOLOGICAL METHODS FOR APPLICATION IN LAKE MONITORING	16:45	Colin Curry, Shadi Shokralla, Mehrdad Hajibabaei, Donald Baird, Joel Gibson A COI LIBRARY FOR NORTH AMERICAN FRESHWATER INVERTEBRATE GENERA: PROGRESS, PITFALLS AND PROSPECTS
13:30			
			ing Your Publications to Work
13:45	Xiaowei Zhang, Jianghua Yang BARCODING MICRO-ZOOPLANKTON WITHOUT		hair(s): Sue Nichols, Kate Schofield, Sue Norton, Angus dreas Melcher, Mike Peat 306
	CULTIVATION BY HIGH-THROUGHPUT PARALLEL SEQUENCING	15:30	Neal Haddaway
14:00	Shadi Shokralla, Joel Gibson, Ian King, Donald Baird, Mehrdad Hajibabaei CONTRASTING BIODIVERSITY PATTERNS FROM WATER AND BENTHOS AS SOURCES OF ENVIRONMENTAL DNA SEQUENCES FOR AQUATIC BIOMONITORING		SYSTEMATIC REVIEWS AS GOLD STANDARDS IN EVIDENCE SYNTHESIS, AND WHAT WE CAN LEARN FROM THEM
		15:45	Susan Nichols, Michael Peat, J Angus Webb CHALLENGES FOR EVIDENCE-BASED ENVIRONMENTAL
14:15	Chelsea Hatzenbuhler, Joel Hoffman, Julie Lietz, John Martinson, Sara Okum, Greg Peterson, Erik		MANAGEMENT: WHAT IS ACCEPTABLE AND SUFFICIENT EVIDENCE OF CAUSATION?
	Pilgrim, John R. Kelly SENSITIVITY AND ACCURACY OF HIGH-THROUGHPUT METABARCODING METHODS USED TO DESCRIBE AQUATIC COMMUNITIES FOR EARLY DETECTION OF INVASIVE FISH SPECIES	16:00	Alexandra Collins USING EVIDENCE REVIEWS TO INFORM WATER POLICY AND PRACTICE DECISION MAKING: EXPERIENCES FROM THE UNITED KINGDOM
		16:15	Laurie Alexander, Caroline Ridley
			APPLYING SCIENCE SYNTHESIS TO NATIONAL

ENVIRONMENTAL POLICY NEEDS: A BOUNDARY WORK

PERSPECTIVE

MONDAY ORALS

16:15 16:30 Paul Ringold, Matt Weber, Kim Hall, Kirsten Winters **Bruce Hammock** TROUT REVERSE THE EFFECT OF WATER TEMPERATURE WHAT EVIDENCE DO WE HAVE TO IDENTIFY ON THE FORAGING OF A MAYFLY ECOLOGICAL INDICATORS THAT DIRECTLY MATTER TO PEOPLE? 16:30 Debra Finn, Henrietta Hampel, Raúl Vázquez, Andrea Encalada 16:45 Kate Schofield, Micah Bennett CLIMATE CHANGE COULD INCREASE MAYFLY LIFE-MOVING FROM PUBLISHED RESEARCH RESULTS TO HISTORY MISMATCH BETWEEN RUNOFF- AND POLICY DECISIONS WITH THE HELP OF CONCEPTUAL GROUNDWATER-DOMINATED ALPINE STREAMS. MODEL DIAGRAMS 16:45 Parsa Saffarinia, Dave Herbst, Bruce Medhurst, **Kurt Anderson** S02 Climate and Drought Effects on Mountain Stream EXPERIMENTAL DROUGHT IN EASTERN SIERRA **Ecosystems NEVADA STREAMS** Session Chair(s): Dave Herbst Location: 307 S23 Traits-Based Vulnerability Assessment 13:30 Jason May, Daren Carlisle, David Wolock, Jeanette Session Chair(s): Britta Bierwagen, Anna Hamilton, Jen Stamp Howard, Larry Brown Location: 306 ESTIMATING UNIMPAIRED STREAMFLOWS AS A BASELINE FOR ASSESSMENT OF CLIMATE CHANGE AND 10:30 Britta Bierwagen, Anna Hamilton, Susan Julius, Jen Stamp, Jonathan Witt ANTHROPOGENIC MODIFICATION TRAITS-BASED VULNERABILITY ASSESSMENT AND 13:45 Ted Grantham, Daren Carlisle, David Wolock, Greg MONITORING UNDER CLIMATE CHANGE McCabe, Mike Wieczorek, Jeanette Howard SENSITIVITY OF RIVER FLOWS TO CLIMATE CHANGE IN 10:45 **Matthew Pyne CALIFORNIA** A REVIEW AND EVALUATION OF TRAIT-FLOW RELATIONSHIPS IN STREAM ECOSYSTEMS 14:00 Sophie Cauvy-Fraunié TEMPORAL FLOW FLUCTUATION EFFECTS ON 11:00 Karan Kakouei, Martin Pusch, Jens Kiesel, MOUNTAIN STREAM ECOSYSTEMS Sonia Jähnig DETERMINATION OF BENTHIC INVERTEBRATE FLOW 14:15 Carolyn Hunsaker, Dave Herbst TRAITS IN GERMAN RIVERS VARIABILITY IN HYDROLOGY, WATER CHEMISTRY, AND SEDIMENT LOADS FOR HEADWATERS OF THE 11:15 Kate Boersma, Michael Bogan, Laura Dee, Steve Miller, Alix Gitelman, Adam Siepielski, David Lytle SOUTHERN SIERRA NEVADA WHAT CAN TRAITS TELL US THAT TAXONOMY 14:30 Bruce Medhurst, Dave Herbst, Scott Cooper, CANNOT? A CASE STUDY OF A DRYING STREAM IN THE Sheila Wiseman, Carolyn Hunsaker AMERICAN SOUTHWEST BENTHIC MACROINVERTEBRATE COMMUNITIES IN RIFFLE AND POOL HABITATS IN FORESTED STREAMS 11:30 Bruce Chessman OF THE SIERRA NEVADA OF CALIFORNIA DURING RHEOPHILY AND THERMOPHILY AS POWERFUL DROUGHT TRAITS FOR PREDICTING RESPONSES OF AQUATIC MACROINVERTEBRATE ASSEMBLAGES TO DROUGHT Dave Herbst, Bruce Medhurst, Ian Bell, 14:45 AND CLIMATE CHANGE Michael Bogan **OBSERVATIONS OF CHANGING HABITAT AND BENTHIC** 11:45 Kieran Khamis, Alexander Milner, Lee Brown, INVERTEBRATE COMMUNITIES FROM THE SIERRA **David Hannah** NEVADA SENTINEL STREAM NETWORK DURING IMPLICATIONS OF GLACIER RETREAT FOR **EXTENDED DROUGHT** MACROINVERTEBRATE FUNCTIONAL DIVERSITY IN **ALPINE RIVERS** 15:30 Matthew Kaylor, Dana Warren DROUGHT EFFECTS ON VERTEBRATE BIOTA IN 13:30 Ralf Schäfer HEADWATER STREAMS OF THE CASCADE MOUNTAINS, USING TRAITS OF INVERTEBRATES TO QUANTIFY **EFFECTS OF STRESSORS** 15:45 Daniel Magoulick, Dustin Lynch, Doug Leasure 13:45 Lise Comte, Julian Olden THE INFLUENCE OF DROUGHT ON FLOW-ECOLOGY GLOBAL ANALYSIS OF FRESHWATER FISH RELATIONSHIPS IN OZARK HIGHLAND STREAMS **VULNERABILITY TO CLIMATE CHANGE** 16:00 **Felicitas Hoppeler** 14:00 Anna Hamilton, Britta Bierwagen, Jen Stamp, RUNNING DRY: DROUGHT INDUCED TRANSCRIPTOME-Jonathan Witt, Lei Zheng WIDE GENE EXPRESSION IN THE AQUATIC CADDISFLY THE USE OF BENTHIC MACROINVERTEBRATE TRAITS LARVAE MICROPTERNA LATERALIS (INSECTA: TO ASSESS CLIMATE CHANGE RESPONSES AND TRICHOPTERA)

VULNERABILITIES

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SFS2016: RUNNING ON EMPTY MONDAY ORALS

14:15	Ralf C.M. Verdonschot, Piet F.M. Verdonschot ASSESSING THE EFFECTS OF RESTORATION OF INCISED	S05 Eco-hydrology of IRES in a Changing Climate Session Chair(s): Thibault Datry, Dan Allen, Michael Bogan, Kri Jaeger, Katie Costigan, Raphael Mazor		
	STREAMS ON MACROINVERTEBRATES BASED ON TAXONOMIC- AND TRAIT-BASED INDICATORS	Location:	9 , ,	
14:30	Meryl Mims, Deanna Olson, David Pilliod, Jason Dunham RARITY CLASSIFICATIONS OF ECTOTHERMIC VERTEBRATES: APPLICATIONS FOR REGIONAL	10:30	Daniel Magoulick, Doug Leasure TEMPORAL VARIATION IN FLOW ALTERATION OF INTERMITTENT AND PERENNIAL STREAMS IN THE INTERIOR HIGHLANDS	
14:45	MULTISPECIES VULNERABILITY ASSESSMENTS Jollene Reich, Susan Nichols, Bill Maher, Ben Kefford CAN TRAIT COMPOSTIONS OF BENTHIC MACROINVERTEBRATE COMMUNITIES DISTINGUISH BETWEEN TWO EVIRONEMENTAL STRESSORS AND ASSESS STREAM ECOSYSTEM FUNCTION	10:45	Daniel Allen, Katie Costigan, Gita Bodner, Darin Kopp, Timothy Flood, Dale Turner, Thibault Datry, Bernard Hugeny CAN STREAM GAGE DATA PREDICT LARGE-SCALE DRYING PATTERNS IN INTERMITTENT RIVER NETWORKS? AN ANALYSIS USING LONG-TERM WET/DRY MAPPING DATA FROM 3 RIVERS	
Session C Arturo Eld	S .	11:00	Abel Porras, Mateo Scoggins PREDICTING FLOW PERMANENCE IN THE URBAN SOUTHWEST	
Location: 10:30	307 Sergi Sabater, Vicenç Acuña, Ladislav Mandaric, Jordi-René Mor, Isabel Muñoz, Olatz Pereda, Mira Petrovic, Daniel von Schiller, Arturo Elosegi ACCOUNTING FOR THE EFFECTS OF COMBINED STRESSORS ON THE BIOLOGICAL STRUCTURE OF	11:15	Ryan Burrows, Nick Bond, Mark Kennard PATTERNS OF ORGANIC MATTER PROCESSING IN SURFACE AND SUB-SURFACE HABITATS OF GROUNDWATER-INFLUENCED INTERMITTENT STREAMS	
10:45	MEDITERRANEAN STREAMS Arturo Elosegi, Vicenç Acuña, Ladislav Mandaric, Isabel Muñoz, Olatz Pereda, Mira Petrovic, Jordi- René Mor, Daniel von Schiller, Sergi Sabater SUBSIDY-STRESS UNDER MULTIPLE STRESSORS: INTERACTION BETWEEN WATER SCARCITY AND POINT- SOURCE POLLUTION ON STREAM COMMUNITIES AND ECOSYSTEM FUNCTIONING	11:30	Sanja Zlatanovic, Katrin Premke, Michael Mutz LINK OF STREAM MICROBIAL ACTIVITY WITH SHADING AND SEDIMENT HETEROGENEITY AND ITS SIGNIFICANCE UNDER DROUGHT STRESS	
		11:45	Lindsay Reynolds, Patrick Shafroth, N. LeRoy Poff STREAM DRYING UNDER CLIMATE CHANGE IN THE UPPER COLORADO RIVER BASIN: HOW WILL LOW FLOWS SHAPE FUTURE RIPARIAN VEGETATION?	
11:00	S. Mazeika P. Sullivan, Adam Kautza, Tagwireyi Paradzayi, Jeremy M. Alberts A "COCKTAIL" OF STRESSORS: INDEPENDENT AND JOINT EFFECTS OF ENVIRONMENTAL PERTURBATIONS IN A MIDWESTERN US RIVER	13:30	Anthony Sanabria, Michael Bogan, Stephanie Carlson THE EFFECTS OF DROUGHT AND STREAM DRYING ON AQUATIC INVERTEBRATES AT POINT REYES NATIONAL SEASHORE	
11:15	William Herb, Lucinda Johnson, William Bartsch, Meijun Cai, John Jereczek, Ralph Garono, Kristen Blann FLOW AND TEMPERATURE AS DRIVERS OF LAKE SUPERIOR TRIBUTARY BIOTA	13:45	Katie Costigan, Charles Goss, Kristin Jaeger, P. Charles Goebel HYDROLOGIC VARIATION AND AQUATIC MACROINVERTEBRATE COMMUNITITES IN INTERMITTENT STREAMS OF NORTH-CENTRAL OHIO	
11:30	Tenna Riis, Daniel Graeber, Jes J. Rasmussen, Peter S. Levi, Annette Baattrup-Pedersen, Simon L. Rosenhøj, Tinna M. Jensen, Erika M. Neif HOW DOES ECOSYSTEM STRUCTURE AND FUNCTION RESPOND TO LOW-FLOW CONDITIONS IN	14:00	Allyson Yarra, Daniel Magoulick INFLUENCE OF FLOW REGIME, GEOMORPHOLOGY, AND HABITAT ON CRAYFISH ASSEMBLAGES OF THE OZARK HIGHLANDS Rachel Stubbington, Paul J. Wood	
11:45	AGRICULTURAL STREAMS? James Hood, Jonathan P. Benstead, Wyatt Cross, Paula Furey, Luke Ginger, Alexander Huryn, Philip Johnson, Delorianne Sander, Jill Welter, Jón Ólafsson, Gisli Gislason INTERACTIVE EFFECTS OF TEMPERATURE AND NITROGEN SUPPLY ON STREAM BIOFILM STRUCTURE AND FUNCTION	14:15	MACROINVERTEBRATE SEEDBANK RESISTANCE AND RESILIENCE IN RESPONSE TO SEVERE SUPRA-SEASONAL DROUGHT	

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14:30	Thibault Datry, Edgar Goitia, Jose Zubieta, Nabor Moya, Thierry Oberdorff, Ross Vander Vorste DESICCATION-RESISTANCE AS A PROMOTER FOR INVERTEBRATE COMMUNITY RESILIENCE IN TEMPORARY TROPICAL FRESHWATERS: THE INFLUENCE OF ENVIRONMENTAL HARSHNESS	14:30	Roseanna Gamlen-Greene, David Hawke, Jon Harding BIOGEOCHEMISTRY OF SEABIRD SUBSIDIES IN STREAM ECOSYSTEMS: PATTERNS IN ECOLOGICAL STOICHIOMETRY
14:45	Ross Vander Vorste, Thibault Datry STORAGE EFFECTS IN INTERMITTENT RIVER ECOLOGY: IMPLICATIONS FOR COEXISTENCE, BIOTIC	15:30	Adrianne Smits, Daniel Schindler, Gordon Holtgrieve GEOMORPHIC INFLUENCES ON AGE OF CARBON SOURCES TO STREAM DIC AND AQUATIC FOOD WEBS
	INTERACTIONS AND COLONIZATION DYNAMICS	15:45	Juliana D'Andrilli, Eric Scholl, Heidi Smith, Christine Foreman, James Junker
15:30	Catherine Leigh, Thibault Datry, Working Group of IRBAS THE BIODIVERSITY AND ECOHYDROLOGY OF		INTEGRATING CHEMISTRY, MICROBIOLOGY, AND ECOSYSTEM ECOLOGY TO DISCERN THE NATURE AND FATE OF DISSOLVED ORGANIC MATTER IN STREAMS
	INTERMITTENT AND EPHEMERAL RIVERS: INTRODUCING THE IRBAS DATABASE AND AN ANALYTICAL EXAMPLE	16:00	Brittany Hanrahan, Jennifer Tank, Arial Shogren, Emma Rosi-Marshall USING THE NOVEL RAZ-RRU METRIC TO QUANTIFY
15:45	Michael Bogan RISE UP LAZARUS! LIFE HISTORY AND DISTRIBUTION		THE INFLUENCE OF BIOFILM COLONIZATION AND SUBSTRATE HETEROGENEITY ON STREAM
	OF AN INTERMITTENT STREAM SPECIALIST (MESOCAPNIA ARIZONENSIS)	16:15	METABOLISM Denise Bruesewitz, Charles MaCaulay, Anne
16:00	Nick Bond, David Crook, Jon Marshall, Jaye Lobegeiger, Norbert Menke, Stephen Balcombe SPATIAL HABITAT DYNAMICS AND POPULATION		Schechner, Whitney King USING PATTERNS OF ECOSYSTEM METABOLISM TO UNDERSTAND A CHANGING, MESOTROPHIC LAKE
	PERSISTENCE IN INTERMITTENT STREAMS	16:30	Laurel Genzoli, Robert Hall
16:15	Jane Fenci, Julian Olden FISH LIFE-HISTORY STRATEGIES DEFINE META- POPULATION DYNAMICS IN A DRYLAND STREAM		SUMMER STORMS CAUSED LOWER-THAN EXPECTED GROSS PRIMARY PRODUCTION ON THE KLAMATH RIVER DURING THE 2015 DROUGHT YEAR
16:30	Avital Gasith TO WHAT EXTENT INVERTEBRATE BIODIVERSITY OF INTERMITTENT STREAMS IN MEDITERRANEAN- CLIMATE REGION IS THREATENED BY CLIMATE CHANGE?	16:45	Alison Appling, Robert Hall, Charles Yackulic, Maite Arroita BALANCING ACCURACY AND COMPUTATION TIME IN STREAM METABOLISM MODELING
			porary Wetlands
_	reochemistry hair(s): Denise Bruesewitz, James Heffernan		hair(s): Brian O'Neill, D. Christopher Rogers, Kelley Fritz 309-310
Location:		10:30	Niall McCarten
13:30	Anne Hershey, Peter Blum, Martin Tsui, Steven Whalen METHANE AND METHYLMERCURY PRODUCTION POTENTIALS IN NORTH CAROLINA PIEDMONT STREAM SEDIMENTS Shan Zuidema, Wilfred Wollheim CHARACTERIZING THE PRESENT AND FUTURE EXTENT		RESPONSE OF PLANT SPECIES TO MODIFICATION IN HYDROLOGICAL FUNCTIONING IN VERNAL POOLS DUE TO PREDICTED CHANGES IN THE CALIFORNIA CLIMATE
		10:45	Michael Peterson, Kevin Lunde, Ming-Chih Chiu, Vincent Resh
13:45			SEASONAL VARIATION OF MACROINVERTEBRATES IN A TEMPORARY WETLAND OF NORTHERN CALIFORNIA
	OF CHLORIDE IMPAIRMENT IN THE MERRIMACK RIVER	11:00	Jamie Kneitel
14:00	NEW HAMPSHIRE USA Jose Caprile		HYDROREGIME INTERACTS WITH SPATIAL AND TEMPORAL SUBSIDIES IN CALIFORNIA VERNAL POOLS
	THE GEOCHEMICAL INFLUENCE OF TRACE ELEMENT CONCENTRATIONS FROM MARINE SEDIMENTARY BEDROCK ON FRESHWATER STREAMS IN THE WESTERN TRANSVERSE MOUNTAIN RANGES	11:15	Christopher Rogers RELATING ANOSTRACAN DISTRIBUTION TO PHYSICAL HABITAT CHARACTERISTICS IN NORTH AMERICA (CRUSTACEA: BRANCHIOPODA)
14:15	Lisa Kunza, Jaime Haueter, Christopher Schiller, Sarah Spaulding, Emily Stickney DIDYMOSPHENIA GEMINATA IN GRAND TETON		

NATIONAL PARK, WY: DISTRIBUTION, MAT STOICHIOMETRY, AND BIOGEOCHEMISTRY

SFS2016: RUNNING ON EMPTY MONDAY ORALS

11:30 14:00 Kelley Fritz, Lucas Kirschman, Matt Whiles Anya Metcalfe, Theodore Kennedy, Jane Marks NUTRIENT FLOWS AND SUBSIDIES ACROSS AQUATIC-COMPOUNDING IMPOUNDMENTS: AQUATIC INSECT TERRESTRIAL BOUNDARIES OF TEMPORARY PONDS DISTRIBUTION AND EMERGENCE IN A FRAGMENTED RIVERSCAPE VIA AMPHIBIAN MIGRATIONS **Brian O'Neill** 11:45 14:15 Judy Li, William Gerth, Richard VanDriesche, **Douglas Bateman** COMMUNITY DISASSEMBLY IN EPHEMERAL SEASONAL AND SPATIAL DIFFERENCES IN CUTTHROAT **ECOSYSTEMS** (ONCORHYNCHUS CLARKII CLARKII) AND STEELHEAD (O. MYKISS IRIDEUS) TROUT DIET AT HINKLE CREEK, C13 Land-use and Non-Point Source Impacts OR., USA. Session Chair(s): Steve Thomas Location: 311-312 14:30 Sarah Laske, Amanda Rosenberger, Mark Wipfli, **Christian Zimmerman** 10:30 **Stanley Kemp** HYDROLOGY AND FISH COMPOSITION DRIVES LENTIC MECHANISMS OF URBANIZATION IMPACT ON A FOOD WEB STRUCTURE IN ARCTIC ALASKA SENSITIVE LITHOPHILIC SPAWNER, RIVER CHUB (NOCOMIS MICROPOGON) 14:45 David Roon, Jason Dunham, Bret Harvey, Ryan Bellmore, Dede Olson, Gordie Reeves 10:45 Amy D. Rosemond, David W.P. Manning, Phillip M. RIPARIAN THINNING: EVALUATING THE ECOLOGICAL Bumpers, John kominoski, Vlad Gulis, Jonathan P. TRADEOFFS OF TEMPERATURE AND PRODUCTIVITY Benstead, John Maerz FOR HEADWATER STREAMS IN REDWOOD NUTRIENT ENRICHMENT FLIPS **ECOSYSTEMS OF NORTHERN CALIFORNIA** NITROGEN: PHOSPHORUS RATIOS OF DIVERSE **DETRITAL RESOURCES** 15:30 Ryan Bellmore, Joseph Benjamin, Michael Newsom, Jennifer Bountry, Daniel Dombroski 11:00 Flavia Tromboni, Steven Thomas, Rafael Feijó de EXPLORING RESPONSES TO RIVER RESTORATION WITH Lima, Eduardo Silva-Júnior, Timothy Moulton, DYNAMIC FOOD WEB MODELS Christine Lourenço-Amorim, Eugenia Zandonà THE EFFECTS OF RIPARIAN DEFORESTATION AND 15:45 Brooke Penaluna, Alba Argerich WATER CHEMISTRY ON NUTRIENT UPTAKE RATES IN THE ROLE OF AQUATIC CONSUMERS TO THE ATLANTIC FOREST OF BRAZIL MACROINVERTEBRATES: A FIELD EXPERIMENT IN A PACIFIC NORTHWEST STREAM 11:15 **Christopher Cook** UNDERSTANDING STORM EVENT NITRATE EXPORT IN 16:00 Alba Argerich, Brooke Penaluna **DIFFERENT LAND USES** SPATIAL AND TEMPORAL VARIABILITY OF STREAM FUNCTIONAL PROCESSES IN RESPONSE TO AQUATIC 11:30 **Edward Krynak, Adam Yates CONSUMER MANIPULATIONS** BENTHIC INVERTEBRATE DIVERSITY IN AN AGRICULTURALLY STRESSED SYSTEM: A RECIPROCAL 16:15 Matthew Schenk, Colden Baxter, G. Wayne Minshall, TRANSFER EXPERIMENT Mirjam Schärer FIRE, FOOD AND FISH: FOOD-WEB RESPONSES TO 11:45 Iain Phillips, Doug Chivers, John-Mark Davies WILDFIRE AT MULTIPLE SCALES IN TIME AND SPACE WATER CHEMISTRY INFLUENCES ON BENTHIC COMMUNITY STRUCTURE IN NORTHERN GREAT 16:30 **Colden Baxter** PLAINS LOTIC SYSTEMS. CLIMATE CHANGE, WILDFIRE AND A MESSAGE OF RESILIENCE FROM THE "RIVER OF NO RETURN" **S22 Biotic Responses to Food Web Alterations** Session Chair(s): Janine Rüegg, Brooke Penaluna, Alba Argerich **C05 Conservation and Restoration** Location: 311-312 Session Chair(s): Rebecca Bixby 13:30 Location: 313 Janine Rüegg UNDERSTANDING THE EXTENT OF FOOD WEB 10:30 Michael Paul, Kim Caviness-Reardon ALTERATIONS ON AQUATIC ECOSYSTEM STRUCTURE **DEVELOPING NUMERIC NUTRIENT CRITERIA TO** AND FUNCTION REQUIRES CAREFUL CONSIDERATION PROTECT LAKES AND RESERVOIRS IN MISSISSIPPI OF SCALE 10:45 Myrto Nikolakopoulou, Alba Argerich, Susana 13:45 **Kristine Korzow Richter** Bernal, Esperança Gacia, Eugènia Martí, Miquel HISTORICAL RECORDS OF FRESHWATER ECOSYSTEMS: Ribot, Albert Sorolla, Francesc Sabater, Timothy

Vaessen

STREAM MESOCOSMS

THE EFFECT OF TWO MACROPHYTE SPECIES USED FOR RIVER RESTORATION ON THE REDUCTION OF NUTRIENT LOADS. A STUDY IN FLOW-THROUGH

USING PROTEIN BARCODING OF ARCHAEOLOGICAL

SAMPLES TO PROVIDE TEMPORAL DATA

MONDAY ORALS SFS 2016 PROGRAM BOOK

11:00	Rebecca Bixby, Sherri Johnson, Linda Ashkenas EFFECTS OF FOREST HARVEST METHODS ON ALGAL BIOFILMS IN HEADWATER STREAMS	16:00	Leopold Füreder, Georg Niedrist, Stefan Schütz PROGNOSIS, DIAGNOSIS AND TESTING OF HYDROECOLOGICAL INDICATORS IN A LONG-TERM	
11:15	Emily Argo, Allison Roy, Robert Ryan, Anita Milman FACTORS INFLUENCING INDIVIDUALS' OUTDOOR RESIDENTIAL WATER USE DECISIONS IN SUBURBAN BOSTON (USA)	16:15	MONITORING OF ALPINE RIVERS Sami Domisch, Walter Jetz COMBINING POINT OCCURRENCES AND EXPERT RANGE INFORMATION TO MODEL FINE-GRAIN	
11:30	Jordan Mihalicz, Tim Jardine, Helen Baulch, Iain Phillips		DIVERSITY PATTERNS OF THE NORTH AMERICAN FRESHWATER FISH FAUNA	
	EFFECTS OF A HYDROPEAKING DAM ON DOWNSTREAM MACROINVERTEBRATE COMMUNITIES AND RIVER HEALTH	16:30	Elizabeth Montgomery EVIDENCE FOR NEGATIVE EFFECTS OF DROUGHT ON BAETIS SP. (SMALL MINNOW MAYFLY) ABUNDANCE IN	
11:45	Bashida Massar		A SOUTHERN CALIFORNIA STREAM	
	OVEREXPLOITATION: THREAT TO FISH DIVERSITY IN INDIAN NORTHEAST	_	ulation and Community Ecology hair(s): Christina Baker, Timothy Hoellein, Eric Larsen	
S25 Mod	eling Environmental Change in Freshwater	Location:	• • • • • • • • • • • • • • • • • • • •	
Ecosyste		10:30	Jasmine Hamilton, Barbara Peckarsky, Kara Cromwell	
Location: 13:30	Simon Linke, Bernhard Lehner		HEAVY METAL POLLUTION AND PARASITISM AFFEC MAYFLY DRIFT BEHAVIOR AND SUSCEPTIBILITY TO STONEFLY PREDATION	
	HYDROATLAS: A GLOBAL DATABASE OF RIVER AND CATCHMENT ATTRIBUTES TO FACILITATE AQUATIC ECOSYSTEM MODELLING AND CONSERVATION PLANNING	10:45	Kara Cromwell, Barbara Peckarsky HOW DO HOST-PARASITE LIFE HISTORY AND ABIOTIC ENVIRONMENTAL CONTEXT INTERACT TO DETERMINE	
13:45	Tamara Wilson, D. Richard Cameron		PARASITE PREVALENCE?	
	GROWING DEMANDS, SHRINKING SUPPLIES? MODELING CALIFORNIA'S LAND-USE AND WATER USE FUTURE	11:00	Benjamin Swift, Kara Cromwell, Barbara Peckarsky THE EFFECT OF PARASITISM ON DRIFT BEHAVIOR AND CONSEQUENCES FOR TROUT PREDATION ON LARVAE	
14:00	John Olson		OF THE MAYFLY BAETIS BICAUDATUS	
	CURRENT AND FUTURE EFFECTS OF LAND USE AND CLIMATE CHANGE ON RIVER AND STREAM SALINITY Vanessa Reis, Virgilio Hermoso, Simon Linke GLOBAL ASSESSMENT OF WETLAND DISTRIBUTION, THREATS AND CONSERVATION STATUS	11:15	Judith Westveer BIOTIC INTERACTION ENHANCES SURVIVAL AND FITNESS: INTERSPECIFIC FACILITATION AMONG AQUATIC MACROINVERTEBRATES	
14:15				
		11:30	Anna Belyaeva, John Downing	
14:30	Joe Ebersole, Allen Brookes, Jordan Massie, Brenda Rashleigh, Nathan Schumaker ASSESSING SUFFICIENCY OF THERMAL RIVERSCAPES		NICHE DIFFERENTIATION OF TWO CLOSELY RELATED SPECIES: INFLUENCES OF FISH COMMUNITIES AND ABIOTIC ENVIRONMENT	
	FOR RESILIENT SALMON AND STEELHEAD POPULATIONS	11:45	Bianca Hernandez BURROWING BEHAVIOR OF UNIONID MUSSELS IN	
14:45	Mathias Kuemmerlen, Stefan Stoll, Peter Haase		CENTRAL TEXAS	
	HOW MANY ARE TOO MANY BARRIERS FOR FRESHWATER FISH?		ssed Forested Watersheds	
15:30	Ryan Hill, Scott Leibowitz, Anthony Olsen, Darren Thornbrugh, Eric Fox, Marc Weber VARIABLE SELECTION WITH RANDOM FOREST: BALANCING STABILITY, PERFORMANCE, AND INTERPRETATION IN ECOLOGICAL AND ENVIRONMENTAL MODELING		nair(s): Alex Yeung, Maitane Erdozain Ibarra, usetta-Lambert 314 Paul Sibley, David Kreutzweiser, Karen Kidd, John Richardson, Alex Yeung, Jordan Musetta-Lambert, Maitane Erdozain SEEING THE FOREST AND THE TREES: EMERGING	
15:45	Francisco Guerrero, Victor Penaranda INFORMATION THEORY AND THE ASSESSMENT OF HYDROLOGICAL CHANGE IN FRESHWATER		TOOLS AND PERSPECTIVES FOR MANAGING RIPARIAN FORESTS AND THEIR ECOSYSTEM SERVICES	

ECOSYSTEMS

SFS2016: RUNNING ON EMPTY MONDAY ORALS

13:30	Paul Sibley, David Kreutzweiser, Karen Kidd, John Richardson, Alex Yeung, Jordan Musetta-Lambert, Maitane Erdozain SEEING THE FOREST AND THE TREES: EMERGING TOOLS AND PERSPECTIVES FOR MANAGING RIPARIAN FORESTS AND THEIR ECOSYSTEM SERVICES	16:45	Liliana Garcia, Wyatt Cross, Isabel Pardo, John Richardson ISOTOPIC VARIATION OF BASAL RESOURCES AND DEGRADATION OF STREAM ECOSYSTEMS THROUGH LAND-USE INTENSIFICATION
14:00	Dana Warren ALTERNATE TRAJECTORIES OF STAND DEVELOPMENT IN THE RIPARIAN FOREST AFFECT LONG-TERM STREAM LIGHT DYNAMICS, AND ECOSYSTEM FUNCTION IN TEMPERATE HEADWATERS		Lauren Kuehne, Julian Olden, Josh Lawler, Angela Strecker, Dave Theobald
14:15	Jakob Schelker, Karin Eklöf, Ryan Sponseller, Kevin Bishop, Hjalmar Laudon RESPONSE OF BOREAL CATCHMENTS TO FOREST DISTURBANCE: FROM NUTRIENT MOBILIZATION AT THE SOIL-STREAM INTERFACE TO LANDSCAPE SCALE IMPLICATIONS ON WATER QUALITY	10:45	MAKING GOOD OR BROKEN PROMISES? TRENDS IN ECOLOGICAL INTEGRITY ASSESSMENT ACROSS THE UNITED STATES Jennifer Courtwright, Anthony Olsen, Philip Kaufmann, Steven Paulsen, Scott Miller STREAM AND RIVER CONDITION ACROSS THE BLM'S
14:30	Paul Sibley, David Kreutzweiser, Elisa Muto, Jordan Musetta-Lambert WILDFIRE IN BOREAL FOREST CATCHMENTS INFLUENCES LEAF LITTER SUBSIDIES AND CONSUMER COMMUNITIES IN STREAMS: IMPLICATIONS FOR RIPARIAN MANAGEMENT STRATEGIES	11:00	NATIONAL SYSTEM OF PUBLIC LANDS Eric Bauer, Brian Helms, Jack Feminella, David Werneke, Jason Zink, Greg Jennings REGIONAL REFERENCE CURVES AND ECOLOGICAL ENDPOINTS FOR THE APPALACHIAN PLATEAU OF ALABAMA
14:45	Maitane Erdozain, Karen Kidd, David Kreutzweiser, Paul Sibley RESPONSE OF AQUATIC INDICATORS OF STREAM INTEGRITY TO DIFFERENT FOREST CONDITIONS RESULTING FROM FORESTRY	11:15	Steven Rier ASSESSING PERIPHYTON PHOSPHORUS LIMITATION IN CENTRAL PENNSYLVANIA STREAMS USING PULSE AMPLITUDE MODULATED FLUOROMETRY
15:30	Alex Yeung, John Richardson, Antoine Lecerf ASSESSING THE LONG-TERM RESPONSE OF HEADWATER STREAM CONDITIONS TO RIPARIAN MANAGEMENT PRACTICES	11:30	Trefor Reynoldson, John L Bailey, Robert Bailey, Monica Boudreau, Kyle Knysh, Simon Courtenay REQUIRED SAMPLING EFFORT FOR BIOASSESSMENT OF ATLANTIC ESTUARIES IN A CITIZEN MONITORING PROGRAMME
15:45	Jered Studinski, Andrew Hafs, Kyle Hartman THE EFFECT OF RIPARIAN DISTURBANCE ON THE HABITAT, SUMMER DIET, AND CONDITION OF AGE-0 BROOK TROUT (SALVELINUS FONTINALIS) IN CENTRAL APPALACHIAN STREAMS	11:45	Bartosz Grudzinski, Melinda Daniels BISON AND CATTLE GRAZING MANAGEMENT, BARE GROUND COVERAGE, AND LINKS TO SUSPENDED SEDIMENT CONCENTRATIONS IN GRASSLAND STREAMS
16:00	Timo Muotka, Jukka Aroviita, Pauliina Louhi, Heikki Mykrä, Emmi Putkonen, Jarno Turunen SEDIMENTATION, HABITAT LOSS AND CONNECTIVITY AS DRIVERS OF STREAM COMMUNITIES AND ECOSYSTEM PROCESSES: IMPLICATIONS FOR STREAM	13:30	Ryan S. King, Mateo Scoggins, Abel Porras STREAM BIODIVERSITY IS DISPROPORTIONATELY LOST TO URBANIZATION WHEN FLOW PERMANENCE DECLINES: EVIDENCE FROM SOUTHWESTERN NORTH AMERICA
16:15	RESTORATION Peter Kiffney, John Richardson, Adam Goodwin, Adam Wei THE INFLUENCE OF FOREST MANAGEMENT AND NATURAL DISTURBANCE ON LOTIC FOOD WEBS	13:45	Andrea Erwin EVALUATING FISH HABITAT COMPENSATION IN THE CANADIAN ARCTIC: STREAM HABITAT ATTRIBUTES AND MACROINVERTEBRATE ASSEMBLAGES
16:30	Aitor Larrañaga, Libe Solagaistua, Arturo Elosegi PHYSIOLOGICAL RESPONSES OF FRESHWATER CONSUMERS TO VARIATIONS OF THE DURATION AND INTENSITY OF THE STOICHIOMETRIC IMBALANCE WITH	14:00	Rebeka Šiling DISENTANGLING THE EFFECTS OF MULTIPLE STRESSORS IN LAKES; SHOULD WE USE LITTORAL BENTHIC INVERTEBRATES?

THE RESOURCE

MONDAY ORALS SFS 2016 PROGRAM BOOK

14:15	John Rudolph, Ted Von Bitner, Ruth Kolb INVESTIGATION OF THE INFLUENCE OF NATURALLY		TUESDAY, MAY 24, ORALS		
	ELEVATED TOTAL DISSOLVED SOLIDS CONCENTRATIONS ON FRESHWATER BENTHIC MACROINVERTEBRATE STREAM COMMUNITIES IN THE SOUTHERN CALIFORNIA REGION.	Session Cl Location: 10:30	hair(s): Peter Kiffney		
14:30	Lester Yuan COMBINING LOCAL AND REGIONAL DATA TO IMPROVE ENVIRONMENTAL DECISION MAKING		USE OF GAME CAMERAS TO MONITOR FLOW IN SMALL, HIGH-GRADIENT STREAMS IN THE WHITE MOUNTAINS NATIONAL FOREST, MAINE AND NEW HAMPSHIRE, U.S.A.		
14:45	Susan Norton, Geoffrey Smith, Josh Lookenbill, Dustin Shull SYNTHESIZING EVIDENCE TO ASSESS THE CAUSES OF SMALLMOUTH BASS DECLINES AT THE SUSQUEHANNA	10:45	Johnny Richardson EFFECTS OF DROUGHT ON WATERBODIES IN LEON COUNTY FLORIDA		
_	AND JUNIATA RIVERS, PENNSYLVANIA, USA ulation and Community Ecology nair(s): Timothy Hoellein	11:00	Yo Miyake, Kento Yoshimura, Yuya Watanabe, Terutaka Mori, Takumi Akasaka FLOW REGIME AND INVERTEBRATE COMMUNITY RESPONSE ACROSS JAPANESE RIVERS		
Location: 15:30		11:15	Annika Walters THE ROLE OF CONTEXT DEPENDENCY IN UNDERSTANDING THE EFFECTS OF LOW FLOW EVENTS ON FISH		
15:45	Sophia Bonjour, Matt Whiles, Keith Gido INFLUENCES OF FISHES ON MACROINVERTEBRATE AND ALGAL COLONIZATION OF PRAIRIE STREAM POOL MESOCOSMS	11:30	Karen Baumann, Eric Scholl, Heidi Rantala, Matt Whiles TEMPORAL PATTERNS OF MACROINVERTEBRATE COMMUNITY STRUCTURE THROUGH RECORD FLOODING AND DROUGHT IN A FRAGMENTED RIVER		
16:00	Xingli Giam, Julian Olden WHAT MAKES A FISH RARE? DRIVERS AND INTERRELATIONSHIPS BETWEEN MULTIPLE FORMS OF RARITY	11:45	Michael Kendrick, Alexander Huryn, Anne Hershey UNTANGLING THE DIRECT AND INDIRECT EFFECTS OF DISTURBANCE ON CONSUMER COMMUNITIES IN AN ARCTIC RIVER		
16:15	Stephen A. Sefick, Jack W. Feminella, Nina N. Noreika DISTURBANCE MODIFIES THE IMPORTANCE OF DETERMINISTIC AND STOCHASTIC ASSEMBLY MECHANISMS IN STREAM MACROINVERTEBRATE COMMUNITIES	C20 Gas Session Cl Location: 10:30	hair(s): Nicole-Marie Novodvorsky		
16:30	Bryan Brown, Brett Tornwall COMMUNITY TRAITS DEVIATE IN RESPONSE TO A DISTURBANCE AT DIFFERENT LOCATIONS WITHIN A	10:45	A NATIONAL ASSESSMENT OF THE HEALTH OF AND THREATS TO CANADA'S RIVERS Nancy Glozier, Allison Ritcey		
16:45	STREAM NETWORK. Nicole T.K. Kit, David Dudgeon, Nancy E. Karraker BIODIVERSITY AND ECOSYSTEM FUNCTIONS — CAN TADPOLES TELL US ANYTHING ABOUT THEIR RELATIONSHIP?		PATTERNS IN BENTHIC INVERTEBRATE COMMUNITIES IN REFERENCE AREAS IN RIVERS WITHIN THE OIL SANDS DEVELOPMENT REGION OF NORTHERN ALBERTA, CANADA.		
		11:00	Patricia Chambers, Alexa Alexander Trusiak HISTORICAL PATTERNS IN WATER QUALITY IN RELATION TO OIL SANDS INDUSTRIAL DEVELOPMENT		
		11:15	Vanessa Bourne, John L Bailey, Aaron Todd, Nicole Novodvorsky SEASONAL VARIABILITY OF WATER CHEMISTRY AND BIOTIC COMMUNITIES IN TWO ECOZONES IN NORTHERN ONTARIO, CANADA		

Lucy Baker, Stephanie Stoughton

MACROINVERTEBRATE COMMUNTITIES

STREAM BASIN PHYSICAL CHARACTERISTICS AND HUMAN ACTIVITIES INTERACT TO INFLUENCE AQUATIC

11:30

SFS2016: RUNNING ON EMPTY TUESDAY ORALS

S16 Algal Data as a Component of Bioassessment

Session Chair(s): Julianne Heinlein, Gina LaLiberte

Location: 306

10:30 Gina LaLiberte, Matthew Diebel

TAXONOMIC (IN)CONSISTENCY IN ALGAL BIOASSESSMENT DATA: AN ANALYST'S PERSPECTIVE, AND RESULTS FROM A STATEWIDE STUDY OF NUTRIENT EFFECTS ON DIATOM COMMUNITIES

10:45 Daniel Sobota, Shannon Hubler, Michael Paul,

Rochelle Labiosa

USING PERIPHYTON COMMUNITIES TO INDICATE NUTRIENT LEVELS IN PACIFIC NORTHWEST STREAMS

11:00 R. Jan Stevenson

EFFECTS OF TAXONOMIC CONSISTENCY ON DIATOM METRIC PERFORMANCE

11:15 Rosalina Stancheva, Robert Sheath

DO WE NEED SOFT-BODIED ALGAE AS BIOINDICATORS IN STREAM BIOASSESSMENT?

11:30 Eli Asarian, Jacob Kann, Ann St. Amand

STANDARDIZATION AND LONG-TERM TRENDS IN A MULTI-DECADAL PHYTOPLANKTON DATABASE FOR UPPER KLAMATH LAKE, OREGON

11:45 Clinton Davis, Ana Burliga, Dennis Vander Meer, Sean Sullivan

ASSESSING IMPACTS OF RECENT DROUGHTS ON PERIPHYTON ASSEMBLAGES IN PACIFIC NORTHWEST (WASHINGTON)

S14 Multiple Stressors in River Ecosystems

Session Chair(s): Sergi Sabater, Vicenç Acuña, Mazeika P. Sullivan, Arturo Elosegi

Location: 307

10:30 Vicenç Acuña, Ibon Aristi, Arturo Elosegi, Sergi
Sabater, Mira Petrovic, Sara Insa, Maria Casellas
NUTRIENTS VERSUS EMERGING CONTAMINANTS - OR
A DYNAMIC MATCH BETWEEN SUBSIDY AND STRESS
EFFECTS ON STREAM BIOFILMS

10:45 Elizabeth Ogata, Donald Long, Michelle Baker, Zachary Aanderud, Emma Rosi-Marshall, Susan Durham

HOW DO THE STIMULATORY EFFECTS OF NUTRIENTS AND INHIBITORY EFFECTS OF PHARMACEUTICALS ADD UP?

11:00 Melody Bernot, Jason Doll

A META-ANALYSIS OF PHARMACEUTICALS AND PERSONAL CARE PRODUCTS (PPCPS) IN US FRESHWATERS: SPATIAL AND TEMPORAL TRENDS

11:15 David W. P. Manning, S. Mazeika P. Sullivan
BENTHIC MACROINVERTEBRATE COMMUNITY
RESPONSES TO MULTIPLE STRESSORS ASSOCIATED
WITH DAM REMOVAL

11:30 Angus McIntosh, Catherine Febria, Helen
Warburton, Hayley Devlin, Katie Collins, Brandon
Goeller, Jon Harding

THE MULTIPLE STRESSOR CHALLENGE IN THE CANTERBURY WATERWAY REHABILITATION EXPERIMENT (CAREX): DEFINING THE SCALE OF WEED

X NUTRIENT X FINE SEDIMENT INFLUENCE

11:45 Francis Burdon

WHAT CAN RANKED ABUNDANCE DISTRIBUTIONS TELL US ABOUT ANTHROPOGENIC CHANGE IN STREAM ECOSYSTEMS?

C12 Invertebrate Ecology

Session Chair(s): Checo Colon-Gaud

Location: 308

10:30 **Jeffrey Muehlbauer, Theodore Kennedy**DAMMED AND ADRIFT: PATTERNS OF INVERTEBRATE

DRIFT THROUGHOUT COLORADO RIVER BASIN

TAILWATERS

10:45 Travis McDevitt-Galles, Pieter Johnson

HOW FISH PREDATORS AFFECT PARASITE INFECTION WITHIN LARVAL ODONATES: TESTING THE ROLES OF HOST DENSITY, SPECIES IDENTITY, AND TRANSMISSION

SUCCESS

11:00 Halvor Halvorson, Chris Fuller, Michelle Evans-White, Stephanie Stoughton, Thad Scott STOICHIOMETRY OF HOMEOSTASIS AND GROWTH ACROSS AQUATIC INVERTEBRATE DETRITIVORES

11:15 Matthew McTammany, Matthew Wilson, Nicole King, Jordan Barton, Meghan Reilly VARIABILITY IN BENTHIC INVERTEBRATE COMMUNITIES IN A LARGE RIVER EXPLAINED BY PROCESSES OPERATING AT DIFFERENT SPATIAL AND TEMPORAL SCALES

11:30 Brian Helms, Jim Stoeckel

IS SUBTERRANEAN BIODIVERSITY MEDIATED BY BURROWING CRAYFISH?

11:45 Lyntausha Kuehl, Chad Kaiser, Katie Bertrand, Nels

REGIONWIDE ANALYSIS OF MACROINVERTEBRATE ASSEMBLAGE STRUCTURE AND ITS RELATION TO HABITAT CHARACTERISTICS

TUESDAY ORALS SFS 2016 PROGRAM BOOK

Session (od Webs Chair(s): Angela Holland	Session (nservation and Restoration Chair(s): Rebecca Bixby, Michael Paul, Rachel Voight
10:30	: 309-310 Amanda G DelVecchia, Jack A Stanford, Brian L Reid, Jon Graham, Bonnie Ellis RAPID TURNOVER OF METHANOGENIC METHANE INFLUENCES CARBON SUPPLY AND INVERTEBRATE BIOMASS IN AN EXPANSIVE FLOODPLAIN AQUIFER	Location 10:30	Katie Collins, Jon Harding, Catherine Febria, Angus McIntosh TESTING AND DEVELOPING TOOLS FOR WEED MACROPHYTE CONTROL IN NEW ZEALAND AGRICULTURAL WATERWAYS
10:45	Adam Siders, Zacchaeus Compson, Jane Marks CARBON AND NITROGEN FLUXES FROM ISOTOPICALLY- ENRICHED LEAF LITTER TO AQUATIC INSECT	10:45	Bronwen Stanford, Erika Zavaleta RESTORATION SCALE AND STREAM BENEFITS IN CALIFORNIA RANGELANDS
	COMMUNITIES REVEAL DIFFERENCES IN LITTER QUALITY	11:00	Barbara Scudder Eikenberry, Hayley Templar, Daniel
11:00	Kaleb Heinrich, Colden Baxter, Kelsey Robson WATER-LAND LINKAGES: AN INQUIRY BASED LESSON		Burns, Amanda Bell BENTHOS AND PLANKTON STUDIES AT SELECTED RIVERS AND HARBORS ALONG LAKE MICHIGAN
	ON EMERGENCE OF ADULT AQUATIC INSECTS AND THEIR IMPORTANCE TO TERRESTRIAL PREDATORS	11:15	Robin Henderson, James Pratt COMPARING BIOINDICATORS TO MEASURE THE
11:15	Alayna Dorobek, S. Mazeika P. Sullivan SHIFTS IN FISH-CENTERED FOOD WEBS FOLLOWING		EFFICACY OF RESTORATION IN MIDDLE FORK JOHN DAY RIVER, OR
11:30	DAM REMOVAL IN AN URBAN RIVER SYSTEM Emily Dean SEASONAL FISH MIGRATION SUPPLEMENTS A TROPHIC LEVEL IN A COASTAL LAKE MICHIGAN STREAM	11:30	Jessica Fulgoni, Sophia Bonjour, Kerry McLeran, Matt Whiles LIMITED INFLUENCE OF MIDWESTERN STREAM RESTORATIONS ON MACROINVERTEBRATE
11:45	William Deacy KODIAK BROWN BEARS SURF THE SALMON RED WAVE: DIRECT EVIDENCE FROM GPS COLLARED INDIVIDUALS	11:45	COMMUNITIES Eliza Montoya, Edward Martinez ASSESSING AQUATIC HABITAT QUALITY IN RESTORED ARROYOS AT RIO MORA NATIONAL WILDLIFE REFUGE
C11 Inv	asive Species	C02 B:-	and the supplement
	Chair(s): Mark Pyron		g eochemistry Chair(s): Arial Shogren
10:30	: 311-312 Mathis L. Messager, Julian Olden	Location	
10.50	JUST A MATTER OF TIME? MODELING THE RAPID SPREAD OF INVASIVE CRAYFISH IN THE COLUMBIA RIVER	10:30	Eugènia Martí, Miquel Ribot, Timothy Vaessen, Myrto Nikolakopoulou, Paul Romeijn, Tanja Brandt, Esperança Gacia, Albert Sorolla, Susana Bernal, Alba Argerich, Francesc Sabater
10:45	Matthew Schliebe, Dessie Underwood IMPACT OF AN INVASIVE CRAYFISH, PROCAMBARUS CLARKII, ON BENTHIC COMMUNITY STRUCTURE IN SOUTHERN CALIFORNIA DEPRESSIONAL WETLANDS		THE INFLUENCE OF CARBON QUALITY ON NITROGEN REMOVAL ALONG SUBSURFACE FLOWPATHS RECEIVING INPUTS FROM WASTEWATER TREATMENT PLANT EFFLUENTS
11:00	Dana Calhoun, Pieter Johnson PARASITE FAUNA OF INVASIVE FRESHWATER FISHES WITH INSIGHTS INTO DRIVING FACTORS OF PARASITE OCCURRENCE.	10:45	Adam Wymore, Bianca Rodriguez-Cardona, William McDowell, Pavel Kram, Jakub Hruska EXAMINING THE ROLE OF DISSOLVED ORGANIC NITROGEN IN STREAM ECOSYSTEMS ACROSS BIOMES
11:15	Corey Krabbenhoft, Donna Kashian INDICATORS OF SITE CONDITION CORRELATE WITH ROUND GOBY DISTRIBUTION IN MICHIGAN RIVERS	11:00	Shannon Speir, Jason Taylor, Thad Scott SEASONAL PATTERNS IN DENITRIFICATION RATES AS A FUNCTION OF NITRATE AVAILABILITY IN VEGETATED
11:30	James Pearson, Jason Dunham	11:15	AGRICULTURAL DITCH SEDIMENTS Lauren Koenig, Janine Ruegg, Wilfred Wollheim,
	MODELING THE EFFECTS OF CONTROL EFFORTS ON A POPULATION OF COMMON CARP (CYPRINUS CARPIO) IN A SHALLOW EUTROPHIC DESERT LAKE	11.10	William McDowell VARIATION IN AMMONIUM UPTAKE RATES THROUGHOUT A TROPICAL WATERSHED:

11:45

Chunlong Liu, Julian Olden

FRESHWATER FISH FAUNA

INVASIONS THREATEN THE ANTIQUITY OF CHINA'S

THROUGHOUT A TROPICAL WATERSHED:

IMPLICATIONS FOR SCALING ECOSYSTEM PROCESSES

SFS2016: RUNNING ON EMPTY WEDNESDAY ORALS 11:30 Sam Carlson, Geoffrey Poole, Robert Hall, Ellen **WEDNESDAY, MAY 25, ORALS** Wohl, Michael Venarsky, David Walters **C07** Ecology of Fish and Other Aquatic Vertebrates TEMPERATURE EFFECTS ON STREAM NETWORK Session Chair(s): David Janetski, Jessica Grady NITRATE REMOVAL: EXPLORING PHYSICAL DRIVERS OF SEASONAL VARIATION Location: 302-303 10:30 Amelia Johnson, Angela Strecker, Mariska 11:45 Sam Carlson, Robert Hall, Ellen Wohl, Michael Obedzinski Venarsky, David Walters, Geoffrey Poole WHY DO THE FISH MOVE? MULTIPLE SPATIAL SCALE TEMPERATURE EFFECTS ON STREAM NETWORK PREDICTORS OF JUVENILE COHO SALMON WINTER NITRATE REMOVAL: RECONSIDERING THE ROLE OF MOVEMENT TIMING. LARGE STREAMS. 10:45 Brian Kennedy, Natasha Wingerter S05 Eco-hydrology of IRES in a Changing Climate THE INTERACTING EFFECTS OF CLIMATE, DENSITY Session Chair(s): Thibault Datry, Dan Allen, Michael Bogan, AND WATER WITHDRAWAL ON JUVENILE STEELHEAD Kristin Jaeger, Katie Costigan, Raphael Mazor SURVIVAL AND MIGRATION: INSIGHTS FROM AN Location: 315 8-YEAR STUDY 10:30 Stacey Ostermann-Kelm, Raphael D. Mazor, Scott 11:00 Justin Wegner, Graeme Zaparzynski, Mark Luttenton Johnson, Chad Loflen, A. Elizabeth Fetscher, Heather SUMMERTIME MOVEMENT AND MICROHABITAT USE Boyd, Patricia Pendleton, Regan Maas, Danielle BY BROOK TROUT IN A SMALL MICHIGAN STREAM Bram, Eric Stein INTEGRATING PERENNIAL AND INTERMITTENT 11:15 Elizabeth Perkin, John Richardson RIVERS INTO REGIONAL AMBIENT ASSESSMENTS SEASONAL VARIATION IN FORAGING AND IN DRY CLIMATES: CASE STUDIES FROM SOUTHERN COMPETITIVE BEHAVIORS IN CUTTHROAT TROUT **CALIFORNIA** 11:30 Steve Blumenshine, Taylor Spaulding 10:45 Wayne Robinson VARIATION IN TEMPERATURE-DEPENDENT GROWTH FIXED SITES AND MONITORING/BIOASSESSMENT BIAS RATES IN JUVENILE CHINOOK SALMON: THE NEED FOR IN EPHEMERAL SYSTEMS POPULATION-SPECIFIC BIOENERGETICS 11:00 Núria Cid, Narcis Prat, Nuria Bonada, Pablo 11:45 Mariska Obedzinski, Andrew Bartshire Rodríguez-Lozano, Dolors Vinyoles, Pau Fortuño, EFFECTS OF LOW STREAM FLOW ON JUVENILE Francesc Gallart, Jérôme Latron, Pilar Llorens, Raúl SALMONIDS IN TRIBUTARIES OF THE RUSSIAN RIVER, Acosta **CALIFORNIA** BIOASSESSMENT OF INTERMITTENT RIVERS AND 13:30 Tim Jardine, Meghan Carr, Karl Lindenschmidt, EPHEMERAL STREAMS IN THE MEDITERRANEAN Lorne Doig, Paul Jones, Lalita Bharadwaj BASIN: ARE CURRENT METHODS ADEQUATE? TRACKING FISH MOVEMENTS IN A LARGE RIVER USING 11:15 Patrice Spindler, Meghan Smart STABLE SULFUR ISOTOPES CAMO, HOSE CLAMPS, AND PIXELS: ARIZONA'S 13:45 Graeme Zaparzynski, Justin Wegner, Mark Luttenton APPROACH TO MONITORING IN INTERMITTENT **EVALUATING FORAGING HABITS, AND ESTIMATING STREAMS** PREY CONSUMPTION AND GROWTH OF BROOK TROUT 11:30 Alisha Steward, Jon Marshall, Peter Negus, Sara IN A COOLWATER MICHIGAN STREAM Clifford. Cate Dent 14:00 Meghna Marjadi, Allison Roy, Adrian Jordaan, HOW DO WE ASSESS THE HEALTH OF RIVERS WHEN Julianne Rosset, Andrew Whiteley, Ben Gahagan THEY ARE DRY? EARLIER ARRIVAL AND LARGER BODY SIZE INCREASE 11:45 Atish N. Vadher, Rachel Stubbington, Paul J. Wood, REPRODUCTIVE SUCCESS IN ALEWIFE

14:15

14:30

Erika Sutherland, Julian Olden

MACULOSUS) IN AN URBAN LAKE

UPSTREAM EDGE

THE ROLE OF DISPERSAL IN RANGE EXPANSION: A

POPULATION CHARACTERISTICS, CAPTURE SUCCESS, AND FEEDING ECOLOGY OF MUDPUPPIES (NECTURUS

STUDY OF SMALLMOUTH BASS INVASION AT ITS

Alicia Beattie, Philip Willink, Matt Whiles

Sacramento Convention Center Wifi Username: Society4FreshWater Password: science16

INCREASING FINE SEDIMENT LOAD LIMITS VERTICAL

MOVEMENT OF GAMMARUS PULEX (CRUSTACEA:

AMPHIPODA) DURING DEWATERING EXPERIMENTS

Jonathan Millett

14:45 Guido A Herrera-R, Pedro Torres 11:45 Paula Furey, Jill Welter, Jim Hood, Delorianne FACTORS REGULATING THE DISTRIBUTION AND Sander, Wyatt Cross, Jonathan P. Benstead, ABUNDANCE OF SICYDIUM (GOBIIDAE: PERCIFORMES) Alexander Huryn, Philip Johnson, Jón S. Ólafsson, IN HEADWATER STREAMS WITHIN EL YUNQUE Gisli Gislason NATIONAL FOREST, PUERTO RICO. SPECIES MATTER: THE RESPONSE OF DIATOMS AND N2-FIXING ALGAL TAXA TO INCREASING TEMPERATURE 15:30 Tara Chestnut, Deanna Olson, Chauncey Anderson, AND NITROGEN ADDITION **Andrew Blaustein** PATTERNS AND PROCESSES RELATED TO AMPHIBIAN 13:30 Andrea Fitzgibbon, David Costello CHYTRID FUNGI DETECTION IN LENTIC SYSTEMS MICRON-SCALE SPATIAL AND DIEL VARIATION IN OXYGEN AT THE BIOFILM-SEDIMENT INTERFACE 15:45 Jessica Grady, Rebecca Blanton Johansen, Courtney Weyand, Sarah Lundin-Schiller, Eva Grebe, Zachary 13:45 Steve Francoeur Holtel STIMULATION OF SAGINAW BAY CHAROPHYCEAN SCALE SHAPE VARIATION IN A SPECIOSE AND ALGAE BY P HIGHLY IMPERILED GROUP OF FISHES, THE DARTERS (PERCIDAE: ETHEOSTOMATINAE) 14:00 Francine Mejia, Alex Fremier, Joseph Benjamin, Ryan Bellmore, Grace Watson, Michael Newsom, 16:00 Larry R. Brown, Heather Dyer, Kerwin Russell, Kai Adrianne Zuckerman Palenscar, Jason May STREAM METABOLISM INCREASES WITH DRAINAGE **BIOLOGY OF SANTA ANA SUCKER (CATOSTOMUS** AREA AND PEAKS ASYNCHRONOUSLY ACROSS A SANTAANAE) AND ARROYO CHUB (GILA ORCUTTII) IN STREAM NETWORK THE SANTA ANA RIVER, AN EFFLUENT DOMINATED **URBAN RIVER** 14:15 Yuqing Lin, Qiuwen Chen APPLICATION OF CELLULAR AUTOMATA TO MODELING 16:15 Jeff Wesner, Jerry Warmbold ALGAE BLOOM AND ITS ASSIMILATION PROCESS USING CONTRASTING EFFECTS OF FISH PREDATION ON MULTI-RESOURCES OF DATA BENTHIC VERSUS EMERGING INSECTS 14:30 Nathan Smucker, Susanna DeCelles, Stefania 16:30 Nicola Glenjarman, Jon Harding, Angus McIntosh, Guglielmi, Christopher Nietch Katie Collins, Catherine Febria, Helen Warburton EXPERIMENTAL EFFECTS OF CONDUCTIVITY AND THE ROLE OF BED SEDIMENT IN NEW ZEALAND FISH MAJOR IONS ON STREAM PERIPHYTON COMMUNITY COMPOSITION. **C04 Climate Change** C01 Algae and Primary Production Session Chair(s): Scott Wissinger Session Chair(s): Paula Furey, Steve Francoeur Location: 304-305 Location: 304-305 John Jackson, David Funk, Bernard Sweeney, Goggy 15.30 10:30 Katherine V. Hooker, Thayer Hallidayschult, Jie Davidowitz, Charles Hawkins, David Buchwalter Wang, Jessica Beyer, Brandon Chien, Daniella L. LETHAL AND SUBLETHAL RESPONSES OF 3 BAETID Glidewell, Xiangming Xiao, K. David Hambright MAYFLIES EXPOSED TO TEMPERATURE EXTREMES DETECTING AND MAPPING CYANOBACTERIA BLOOMS USING REMOTE SENSING AND CLASSIFICATION TREES 15:45 David Lytle, David Merritt, Julian Olden, Jonathan Tonkin 10:45 Jacob Kann FLOW-POPULATION MODELS FOR TRACKING NON-PATTERNS OF CYANOBACTERIAL DOMINANCE AND STATIONARY CHANGES IN AQUATIC AND RIPARIAN SUCCESSION IN TWO CONTRASTING KLAMATH BASIN **ECOSYSTEMS** SYSTEMS DOMINATED BY APHANIZOMENON AND 16:00 Geraldine Nogaro, Thibaut Feret, Jean-François MICROCYSTIS. Fruget, Nina Dagens, Christian Chauvin 11:00 Jacob Gaskill, Megan Woller-Skar LONG-TERM EVOLUTION OF THE MACROPHYTE **EXAMINING SPATIAL AND TEMPORAL DYNAMICS OF** COMMUNITIES RELATED TO NUTRIENT DECREASE AND MICROCYSTIS AEUGINOSA AND MICROCYSTIN IN A TEMPERATURE INCREASE IN A FRENCH LARGE RIVER LOW NUTRIENT LAKE IN NORTHWESTERN MICHIGAN 16:15 LeRoy Poff, Alexander Flecker, Andrea Encalada, 11:15 Keith Bouma-Gregson, Raphael Kudela, Mary Power Andrea Landeira-Dabarca, Amanda Rugenski, BENTHIC MACROINVERTEBRATES IN A CALIFORNIA Manuel Graça, Steven Thomas RIVER BIOACCUMULATE CYANOTOXINS PRODUCED BY CHANGES IN LEAF AND COTTON DECOMPOSITION CYANOBACTERIAL MATS RATES EXPOSED TO DIFFERENT TEMPERATURES IN TROPICAL STREAM MESOCOSMS 11:30 Tara McAllister, Susie Wood, Ian Hawes SPATIOTEMPORAL DYNAMICS OF PHORMIDIUM 16:30 Gisli Mar Gislason, Aron Dalin Jonasson ACCRUAL AND TOXIN PRODUCTION IN EIGHT NEW THE EFFECT OF WHOLE STREAM WARMING ON ITS ZEALAND RIVERS WITH CONTRASTING NUTRIENT AND **INSECT EMERGENCE**

FLOW REGIMES

WEDNESDAY ORALS

SFS 2016 PROGRAM BOOK

SFS2016: RUNNING ON EMPTY WEDNESDAY ORALS

16:45	Susan Washko, Jared Balik, Brad Taylor, Hamish Greig, Scott Wissinger PREDICTING HOW SHIFTS IN CADDISFLY DISTRIBUTIONS ALONG HYDROPERIOD AND ELEVATIONAL GRADIENTS AFFECT ECOSYSTEM PROCESSES IN SHALLOW HIGH-ELEVATION PONDS	14:00	Robert Bailey, Sonja Teichert, Trefor Reynoldson CITIZEN V PROFESSIONAL SCIENCE IN BIOASSESSMENT OF AQUATIC ECOSYSTEMS: CHALLENGING "VALUE- ADDED", "GREENWASH", AND OTHER TIRED GENERALITIES
Session Ch Location:		14:15	Avital Gasith SEASONAL DRYING AND WETTING IN MEDITERRANEAN-CLIMATE REGIONS: LAKES LIKE STREAMS ARE SIGNIFICANTLY IMPACTED BY THIS MAJOR HYDROLOGIC DRIVER
10:30	David Rosenberg INTRODUCTION TO "A CONFLUENCE OF AQUATIC RESEARCH INFLUENCED BY VINCE RESH"	14:30	Bruce Orr, Zooey Diggory, Peter Downs, Tom Dudley, Adam Lambert, Amy Merrill, Erin Beller, Robin
10:45	Jack W. Feminella ODE TO HERACLITUS AND VINCE RESH: THE ROLE OF DISTURBANCE IN STREAM ECOLOGY		Grossinger BALANCING UNCERTAINTIES: RIVER CORRIDOR CONSERVATION AND RESTORATION IN A MEDITERRANEAN-CLIMATE RIVER IN SOUTHERN
11:00	Mary Power RIVER FOOD WEBS OF THE CALIFORNIA NORTH COAST: STANDING ON THE SHOULDERS OF PROFESSOR VINCENT H. RESH	14:45	CALIFORNIA Lisa Hunt FROM AFRICA TO SOUTH AMERICA – RECENT RESEARCH ON PESTICIDES AND AQUATIC ECOSYSTEMS
11:15	Bruce Chessman, Ian Campbell BIOASSESSMENT IN THE LOWER MEKONG RIVER: TECHNOLOGY TRANSFER TO A DEVELOPING REGION	15:30	Joshua Collins FROM VINCE TO BEYOND
11:30	G. Mathias Kondolf DAMS ON MEDITERRANEAN-CLIMATE RIVERS: SUSTAINABILITY AND ECOLOGICAL EFFECTS	15:45	Alison O'Dowd, Matthew Cover, Justin Lawrence THE LEGACY OF VINCE RESH IN SCIENTIFIC COMMUNICATION: A VISIONARY SCIENTIST WITH BROAD SOCIETAL IMPACTS
11:45	Gary Lamberti REFLECTIONS FROM A FUMAROLE: PASSING ON VINCE RESH'S LESSONS TO THE NEXT GENERATION OF GRADUATE STUDENTS	16:00	Patina Mendez, Marilyn Myers, John Wood, John Jackson, Andreas Hoffmann, Alison O'Dowd, Leah Bêche, Deborah Rudnick, Joan Damerow, Matthew Cover
13:30	Nuria Bonada, Stefano Amalfitano, Joan Artigas, Susana Bernal, Scott D. Cooper, Helen Dallas, Peter M. Davies, Jenny A. Day, Ferdy C. de Moor, Tom Dudley, Stefano Fazi, A. Filipa Filipa, Ricardo Figueroa, Avital Gasith, Antoni Ginebreda, Yaron Hershkovitz, G. Mathias Kondolf, P. Sam Lake, Julio López-Doval, Sean M. Marr, John M. Melack, Isabel Muñoz, Mira Petrovic, Keith Bouma-Gregson, Narcis Prat, Maria Rieradevall, Belinda J. Robson, Patricia M. Rodríguez-González, Anna M. Romaní, Sergi Sabater, John Sabo, John C. Stella, J. Manuel Tierno de Figueroa, Xisca Timoner, Iraima Verkaik, Irene Ylla, Annamaria Zoppini CHALLENGES AND OPPORTUNITIES FOR RESEARCH AND MANAGEMENT IN MEDITERRANEAN CLIMATE RIVERS: CONTRIBUTIONS BY PROFESSOR VINCENT H. RESH		CADDISFLIES, DRAGONFLIES, FISHFLIES & MITTEN CRABS: WHAT DO WE NOW KNOW ABOUT LIFE HISTORY, TAXONOMY, AND FAUNAL PATTERNS?
		16:15	Raphael D. Mazor, Kevin Lunde RESEARCH AND EDUCATION LAY THE GROUNDWORK FOR A PARADIGM SHIFT IN STREAM MANAGEMENT
		16:30	Leon Blaustein, Burt Kotler INFLUENCES OF FOOD LEVEL AND A PREDATOR (NOTONECTA MACULATA) ON MOSQUITO LARVA (CULISETA LONGIAREOLATA)-TADPOLE (BUFO VIRIDIS) INTERACTIONS
		16:45	John Jackson, Michael Peterson, Natalie Stauffer-Olsen DEFINING POPULATION AND SPECIES BOUNDARIES – WHY THE RESH LAB ENDED UP LOOKING AT GENETICS, DISPERSAL, AND MATING BEHAVIOR

OVIPOSITION BEHAVIOR OF TRICHOPTERA: FROM CALIFORNIAN MEDITERRANEAN-TYPE STREAMS TO EUROPEAN CENTRAL MOUNTAIN STREAMS

13:45

Andreas Hoffmann

WEDNESDAY ORALS

S14 Multiple Stressors in River Ecosystems MULTI-CAUSAL INTERACTIONS OF ECOLOGICAL Session Chair(s): Sergi Sabater, Vicenç Acuña, Mazeika P. Sullivan, DRIVERS IN FLORIDA SPRING-FED RIVERS Arturo Elosegi 14:45 Ana Chara-Serna, Luis B. Epele, John Richardson Location: 307 **EVALUATING CUMULATIVE IMPACTS OF NUTRIENT** 10:30 Christoph Matthaei, Romana Salis, Andreas Bruder, ENRICHMENT, SEDIMENTATION, AND NEONICOTINOID Jeremy Piggott. Tina Summerfield INSECTICIDE POLLUTION ON FRESHWATER ECOSYSTEM HIGH-THROUGHPUT AMPLICON SEQUENCING AND STREAM BENTHIC BACTERIA: IDENTIFYING THE **FUNCTIONING** BEST TAXONOMIC LEVEL FOR MULTIPLE-STRESSOR **Kevin Shaffer** 15:30 RESEARCH FISHERIES ACTIONS TO RESPOND TO CALIFORNIA'S 10:45 **Matthew Baker** PROLONGED DROUGHT ASSESSING CAUSALITY WITH PROBABILISTIC 15:45 Kate Mathers, Stephen Rice, Paul Wood REASONING AND GRAPHICAL MODELS: A CASE STUDY THE INTERACTION AND IMPLICATIONS OF FINE IN APPALACIAN SURFACE MINING SEDIMENT DEPOSITION AND INVASIVE CRAYFISH 11:00 Sarah Kupferberg, Andrea Adams PREDATION ON THE AMPHIPOD GAMMARUS PULEX MULTIPLE STRESSORS PREDICT FUNGAL INFECTION IN 16:00 Xiaowei Zhang, Yuwei Xie A DECLINING CALIFORNIA FROG DURING AN HISTORIC USING IN SITU BACTERIAL COMMUNITIES TO **DROUGHT** MONITOR CONTAMINANTS IN RIVER SEDIMENTS 11:15 Chris Robinson, Simone Baumgartner MACROINVERTEBRATE RESPONSES TO MULTIPLE **C05** Conservation and Restoration STRESSORS IN A LOWLAND STREAM NETWORK Session Chair(s): Rachel Voight Location: 308 11:30 Scott Leibowitz, Darren Thornbrugh, Ryan Hill, Marc 10:30 Jane Marks, Ben Koch, Cathy Gibson, Matthew Weber, John Stoddard, Joseph Flotemersch O'Neill, Bruce Hungate MAPPING WATERSHED INTEGRITY FOR THE CAN A RIVER BE RESTORED AFTER A CENTURY OF **CONTERMINOUS UNITED STATES** DISTURBANCE? LESSONS FROM FOSSIL CREEK 11:45 Ian Waite 10:45 Joseph Furnish, Jeanette Howard, Kurt Fesenmyer, UNDERSTANDING AGRICULTURAL LAND USE Kirk Klausmeyer DISTURBANCE IN STREAMS: A COMPARISON OF ALGAE PATTERNS OF FRESHWATER SPECIES RICHNESS, AND INVERTEBRATE MULTI-STRESSOR MODELS ENDEMISM AND VULNERABILITY IN CALIFORNIA, USA 13:30 Richard Walker, Carlin Girard, Annika Walters AND THE CALIFORNIA FRESHWATER CONSERVATION DOES OIL AND NATURAL GAS DEVELOPMENT **BLUEPRINT** AND HYDROLOGY INTERACT TO AFFECT FISH 11:00 Ming-Chih Chiu, Lisa Hunt, Vincent Resh POPULATIONS? RESPONSE OF MACROINVERTEBRATE COMMUNITIES Richard Johnson, Brendan McKie, David Angeler, 13:45 TO DYNAMICS OF PESTICIDE MIXTURES Leonard Sandin, Simon Hallstan 11:15 **Katie Ross-Smith** EFFECTS OF MULTIPLE PRESSURES ON INVERTEBRATE FLOW REGIME MANAGEMENT FOR RIPARIAN ASSEMBLAGES OF BOREAL STREAMS RESTORATION 14:00 Andrew Turner, Brianna Reed 11:30 Elizabeth Sudduth, Courtney Dobash, Annalise WATER POLLUTION AND INFODISRUPTION: Reagan, Mikayla Oglesby CHEMOSENSORY PERCEPTION OF FOOD AND LETTING BEAVERS DO THE WORK: ECOLOGICAL PREDATORS BY RIVERINE INVERTEBRATES IS IMPAIRED RECOVERY OF A DRAINED STREAM-WETLAND SYSTEM BY A BRINE WASTEWATER EFFLUENT THROUGH BEAVER ACTIVITY 14:15 Brent Tweedy, Caryn Vaughn 11:45 Richard Hauer, Victoria Dreitz, Mark Hebblewhite, MERCURY CONTAMINATION AND THERMAL STRESS Winsor Lowe, Clint Muhlfeld, Cara Nelson, Michael COMBINES TO HAVE DETRIMENTAL EFFECTS ON Proctor, Stewart Rood, Harvey Locke FRESHWATER MUSSEL-DRIVEN ECOSYSTEMS GRAVEL-BED RIVER FLOODPLAINS ARE THE 14:30 Mary Szafraniec, Margaret Guyette **ECOLOGICAL NEXUS OF GLACIATED MOUNTAIN LANDSCAPES**

SFS 2016 PROGRAM BOOK

SFS2016: RUNNING ON EMPTY WEDNESDAY ORALS S12 Urban Stream Syndrome Julia E Kelso, Michelle Baker Session Chair(s): Alex Reisinger, Joanna R. Blaszczak, Sylvia S. Lee, 16:30 CHARACTERIZATION OF DISSOLVED ORGANIC MATTER Peter S. Levi and Emma J. Rosi-Marshall Location: 308 SOURCES ALONG A MOUNTAIN TO URBAN GRADIENT OF LANDUSE 13:30 Emma Rosi-Marshall, Peter Groffman, Sylvia Lee, Emily Bernhardt, Joanna Blaszczak, Nancy Grimm, 16:45 Megan Fork, Joanna Blaszczak, Jim Heffernan Sujay Kaushal, John Kelly, Peter S. Levi, Emily DISSOLVED ORGANIC MATTER IN URBAN EPHEMERAL Stanley, Alexander Reisinger **HEADWATERS** BIOGEOCHEMICAL SYMPTOMS OF THE URBAN STREAM SYNDROME: HOMOGENIZATION OF WATER C03 Biogeochemistry CHEMISTRY AND IMPLICATIONS FOR ECOSYSTEM Session Chair(s): Erin Hotchkiss, Denise Bruesewitz, James **FUNCTIONING IN URBAN STREAMS** Heffernan, Arial Shogren, John Kominoski Alonso Ramirez, Jody Potter, William H. McDowell 13:45 Location: 309-310 EXPORT OF CARBON, NUTRIENTS, AND WEATHERING 10:30 Stephen K. Hamilton, Patricia Hoch-Melluish, Brian PRODUCTS FROM A HIGHLY URBANIZED TROPICAL Boyer, Sylvia Heaton, Mark Kieser WATERSHED PHOSPHORUS INTERNAL LOADING FROM RESERVOIR SEDIMENTS: A HISTORICAL LEGACY, OR SUSTAINED BY 14:00 Nadine Ruchter, Bernd Sures ONGOING INPUTS? PLATINUM: AN INDICATOR FOR TRAFFIC INDUCED POLLUTION IN URBAN FRESHWATER SYSTEMS 10:45 Aaron Swink, Weston Nowlin, Benjamin Schwartz A META-ANALYSIS OF P UPTAKE RATES IN LOTIC 14:15 Clint Boschen, Jerome Diamond, Ruth Kolb, Michael ECOSYSTEMS: INFLUENCE OF LOCAL CONDITIONS ON Paul **GLOBAL PATTERNS** DECIPHERING CAUSES OF BIOLOGICAL IMPAIRMENT IN A HEAVILY URBANIZED WATERSHED 11:00 Weston Nowlin, Aaron Swink, Benjamin Schwartz FACTORS AFFECTING PHOSPHORUS UPTAKE IN KARST 14:30 Peter S. Levi. Peter J. Lisi. Etienne Fluet-Chouinard. **RIVERS IN CENTRAL TEXAS** Matthew Diebel, Peter B. McIntyre LONG-TERM TRENDS REVEAL VARYING CONTROLS Martha M. Dee, Jennifer Tank, Alessandra Marzadri, 11:15 ON NITROGEN, PHOSPHORUS, AND CHLORIDE Daniele Tonina, Alberto Bellin CONCENTRATIONS AMONG URBAN RIVER NETWORKS A SPATIAL ANALYSIS OF SEASONAL VARIATION IN DISSOLVED NUTRIENTS AND GREENHOUSE GASSES 14:45 Sylvia Lee, Emma Rosi-Marshall, Alexander ALONG TWO STREAM-RIVER NETWORKS DRAINING Reisinger, John Kelly, Miguel Rojas, Sujay Kaushal WATERSHEDS OF CONTRASTING LAND USE EFFECTS OF URBAN CHEMICAL STRESSORS ON STREAM

BIOFILMS 15:30 Joanna Blaszczak, Joseph Delesantro, Dean Urban, **Emily Bernhardt** BENTHIC HABITAT SUSCEPTIBILITY TO PERTURBATIONS INFLUENCES URBAN STREAM METABOLISM

- 15:45 Thomas Doody, Alexander Reisinger, Emma Rosi-Marshall, Sujay Kaushal, Peter Groffman BIOGEOCHEMICAL EVALUATION OF RESTORED URBAN **STREAMS**
- 16:00 Heather Frazier, John Melack ECOSYSTEM METABOLISM RESPONSE TO URBAN **DEVELOPMENT IN COASTAL CALIFORNIA STREAMS**
- 16:15 Joanna Solins, Mary Cadenasso LINKING URBANIZATION TO CHANGES IN RIPARIAN **VEGETATION IN A MEDITERRANEAN CLIMATE:** CONSEQUENCES FOR ECOSYSTEM FUNCTION IN **HEADWATER STREAMS**

- 11:30 Keli Goodman, Stephanie Parker, Caren Scott, Jesse THE NATIONAL ECOLOGICAL OBSERVATORY NETWORK'S EVOLVING AQUATIC DATA PIPELINES AND DATA AVAILABILITY
- 11:45 Ann Marie Reinhold, Geoffrey Poole, Ashley Helton, Clemente Izurieta, Robert Payn, Emily Bernhardt A CONSTRAINT-BASED, COMPOUND SPECIFIC APPROACH TO MODELING LINKED BIOGEOCHEMICAL **CYCLES**

WEDNESDAY ORALS SFS 2016 PROGRAM BOOK 16:45 Dominic Chaloner, Brandon Gerig, David Janetski, S20 Ecological Subsidies to Stream and Peter S. Levi, Ashley Moerke, Richard Rediske, **Riparian Ecosystems** Janine Rüegg, Jennifer Tank, Scott Tiegs, Gary Session Chair(s): Clay Arango, Sally Entrekin Location: 309-310 INFLUENCE OF PACIFIC SALMON SPAWNERS ON Clay Arango, Sally Entrekin, Jennifer Lipton STREAM ECOSYSTEMS: WHY CONTEXT MATTERS ECOLOGICAL SUBSIDIES FROM AN OUTBREAK INSECT CAN AFFECT HEADWATER CONIFEROUS STREAM S26 Exploring Trophic Relationships and **ECOSYSTEMS** Stream Food Webs 13:45 Kristen M. Diesburg, S. Mazeika P. Sullivan Session Chair(s): Claire Ruffing, Sherri Johnson **ECOLOGICAL LINKAGES BETWEEN STREAMS AND** Location: 311-312 THEIR ADJACENT RIPARIAN ZONES FOLLOWING 10:30 Zacchaeus Compson, Wendy Monk, Colin Curry, HEMLOCK WOOLLY ADELGID INVASION Christoper Baker, Alexandre Riazanov, Ahmad Bukhari, Rob Beiko, Mehrdad Hajibabaei, Michael 14:00 Hiromi Uno Wright, Donald Baird SPATIAL HETEROGENEITY IN STREAM TEMPERATURE OF TRAITS, TEXT-MINING, AND DNA: NOVEL PROLONGS AQUATIC-TO-TERRESTRIAL SUBSIDY TECHNIQUES TO RESOLVE FOOD WEB PROPERTIES IN **ENHANCING SPIDER GROWTH** RIVER DELTA HABITATS 14:15 Martha J. Zapata, S. Mazeika P. Sullivan 10:45 Mark Pyron, Robert Shields, Mario Minder, Brent SEASONAL VARIABILITY OF AQUATIC-TERRESTRIAL Murry. Jesse Becker FOOD-WEB LINKAGES IN A SUBTROPICAL ESTUARINE FOOD WEB OF THE WABASH RIVER SYSTEM 11:00 Justin Murdock, Natalie Knorp, Lucas Hix, Andrea 14:30 Rachel E. McNeish, M. Eric Benbow, Ryan W. Engle McEwan THE IMPACT OF DIDYMOSPHENIA GEMINATA MATS TERRESTRIAL-AQUATIC CONNECTIONS: A RIPARIAN VARIES ACROSS TROPHIC LEVELS IN SOUTHERN INVASIVE SHRUB ALTERS ECOSYSTEM SUBSIDIES AND APPALACHIAN STREAMS AQUATIC FUNCTIONAL DIVERSITY 11:15 Francesc Rubio-Gracia, David Almeida, Berta Bonet, 14:45 John Richardson Frederic Casals, Carmen Espinosa, Alexander Flecker, COMPLEX INTERACTIONS AMONG PHENOLOGY, Emili Garcia-Berthou, Eugènia Martí, Baigal-Amar COMPOSITION, RETENTION AND TEMPERATURES Tuulaikhuu, Anna Vila, Lluis Zamora, Francesc AFFECTING INCORPORATION OF CROSS-ECOSYSTEM **RESOURCE SUBSIDIES TO STREAMS** HYDROLOGICAL ALTERATION MEDIATES TROPHIC 15:30 Hannah Riedl, William Clements, Liba Pejchar CASCADE EFFECTS IN A MEDITERRANEAN STREAM IMPACTS OF AN INTRODUCED TREE ON FOOD WEB 11:30 **Erin Peterson FUNCTIONALITY** FAMILY-LEVEL DIVERSITY OF AQUATIC 15:45 Johanna Kraus, David Walters, Richard Wanty, Travis MACROINVERTEBRATES IN WESTERN SOUTH DAKOTA Schmidt, Justin Pomeranz, Andrew S. Todd, Laura AND IMPLICATIONS FOR CHANNEL CATFISH DIETS 11:45 Helen Warburton, Pete McHugh, Phillip Jellyman, HOW STRESSORS SHAPE SUBSIDIES: LESSONS FROM Hamish Greig, Angus McIntosh **METAL-IMPACTED STREAMS** CONSEQUENCES OF CHANGES IN COMMUNITY 16:00 Laura Heiker, Holly Rogers, Travis Schmidt, Johanna STRUCTURE ACROSS ENVIRONMENTAL GRADIENTS Kraus. Rick Adams REVEALED USING BODY MASS-ABUNDANCE ASSOCIATIONS BETWEEN STREAM METAL RELATIONSHIPS CONTAMINATION AND BAT ACTIVITY IN THE EASTERN 13:30 Maruxa Álvarez, Bobbi Peckarsky, Andrea Landeira-**COLORADO ROCKIES** 16:15 Brianna Henry, Jake Kerby, Jeff Wesner FISH SCENT: EPISODE I - ORIGEN AND SPECIFICITY OF EFFECTS OF SELENIUM AND PESTICIDES ON AQUATIC-THE CUE THAT MAKE LARVAE (INSECTA) RUN SCARED TERRESTRIAL RESOURCE SUBSIDIES IN THE PRAIRIE **POTHOLES** 13:45 Andrea Landeira-Dabarca, Maruxa Álvarez, Bobbi **Peckarsky** 16:30 Nicholas Jones, Robert Mackereth FISH SCENT: EPISODE II - NATURE OF THE CUE THAT RESOURCE SUBSIDIES FROM ADFLUVIAL FISH MAKE LARVAE (INSECTA) RUN SCARED FROM FISH INCREASE STREAM PRODUCTIVITY 14:00 James Wood, Jon Skaggs, Mary Freeman

WHAT IF STRUCTURE HAS MORE FUNCTION THAN WE REALIZE? WATER VELOCITY REGULATES HERBIVORY PRESSURE ON PODOSTEMUM CERATOPHYLLUM.

14:15 Anna Harris, Eric Snyder, Andrea Encalada, Blanca S10 Rivers at Risk Session Chair(s): Laura Craig, Erin Singer McCombs MACROINVERTEBRATE COMMUNITY COMPOSITION, Location: 313 EMERGENCE RATE, AND FOOD WEB STRUCTURE OF 10:30 Charles Hawkins, Daniel Isaak NEOTROPICAL CLOUD-FOREST STREAMS IN MINDO, **ECUADOR** CLIMATE CHANGE AND FRESHWATER BIODIVERSITY 14:30 **Russell Death** 10:45 **David Straver** FOOD WEB STABILITY: ARE WET OR DRY WEBS EFFECTS OF BIOLOGICAL INVASIONS ON LARGE-RIVER DIFFERENT? **ECOSYSTEMS** 14:45 Andrew Kirk, Daniel McGarvey 11:00 Allison Roy A TWO-YEAR STUDY OF FISH AND INVERERTEBRATE URBANIZATION: USING RESISTANCE TO THIS BIOMASS SPECTRA IN THREE SOUTHERN WEST HOMOGENIZING FORCE TO INFORM MANAGEMENT VIRGINIA STREAMS 11:15 Matthew Wooten, Robert Hawley, Elizabeth Fet, 15:30 Kurt Anderson, Sean Hayes, Jonathan Sarhad Katherine MacMannis MINIMIZING STORMWATER RUNOFF IMPACTS TO FOOD WEB DYNAMICS ON BRANCHING RIVER STREAMS AND RIVERS THROUGH TARGETED FLOW **NETWORKS** THRESHOLDS: THE BIOLOGICAL RELEVANCE OF 15:45 Christina Murphy, Ivan Arismendi, Sherri Johnson **QCRITICAL** A MECHANISTIC MODEL OF FORAGING AND 11:30 Jennifer L. Tank, Martha M. Dee, Alessandra BIOENERGETICS TO EXPLORE SALMON GROWTH IN Marzadri, Daniele Tonina, Alberto Bellin PACIFIC NORTHWEST RESERVOIRS DURING DROUGHT MIDWESTERN RIVERS: ARE THEY HOTSPOTS, BUFFERS, 16:00 Sherri Johnson, Brooke Penaluna, Alba Argerich, OR SENTINELS OF AGRICULTURAL LAND USE? James Larson, Erica Garcia, Christina Murphy, Claire 11:45 Amie West, Justin Nolan, Thad Scott Ruffing, Scott Cooper, Daniel Allen, Jeremy Jones, OPTICAL WATER QUALITY AND HUMAN PERCEPTIONS **Matt Whiles EXPLORING LINKAGES IN HEADWATER FOOD WEBS** OF RIVERS: AN ETHNOHYDROLOGY STUDY BEFORE AND AFTER FOREST HARVEST USING 13:30 **Angela Arthington** STRUCTURAL EQUATION AND MECHANISTIC MODELS ECOLOGICAL IMPACTS OF ALTERED RIVER FLOW Angela Holland, Eric Hellgren, Matt Whiles 16:15 **REGIMES** STREAM COMMUNITY RESPONSES TO RIVER OTTER 13:45 Ted Kennedy, Jeffrey Muehlbauer, Charles Yackulic, REINTRODUCTIONS IN ILLINOIS David Lytle, Scott Miller, Kimberly Dibble, Eric Kortenhoeven, Anya Metcalfe, Colden Baxter Daniel Allen, Wyatt Cross, Arthur Benke, Thomas 16:30 FLOW MANAGEMENT FOR HYDROPOWER EXTIRPATES Brey, Alexander Huryn, Jeremy Jones, Daniel AQUATIC INSECTS, THE FOUNDATION OF RIVERINE McGarvey, Christina Murphy, Christopher Patrick, **FOOD WEBS** Claire Ruffing, Parsa Saffarinia, Matt Whiles, Guy Woodward 14:00 Erin Singer McCombs, Laura Craig, Brian Graber, TOWARDS UNDERSTANDING DRIVERS OF Serena McClain COMMUNITY-LEVEL INVERTEBRATE PRODUCTION ADDRESSING THE ECOLOGICAL IMPACTS OF DAMS USING STRUCTURAL EQUATION MODELING THROUGH DAM REMOVAL IN THE U.S. 16:45 Claire Ruffing, Jeremy Jones, Matt Whiles, Daniel 14:15 Bryan Maitland, Axel Anderson, Mark Poesch Allen, Kurt Anderson, Alba Argerich, Ana Chara-CULVERTS IN THE BOREAL FOREST: IMPACTS AND Serna, Scott Cooper, Wyatt Cross, Nika Galic, RESTORATION METHODS FOR NATIVE FRESHWATER Erica Garcia, James Grace, Angela Holland, Sherri **FISHES** Johnson, James Larson, Daniel McGarvey, Christina 14:30 **Nicholas Pinter** Murphy, Roger Nisbet, Christopher Patrick, Brooke RIVER NAVIGATION INFRASTRUCTURE AND IMPACTS Penaluna, Parsa Saffarinia CHALLENGES AND OPPORTUNITIES FOR ADVANCING 14:45 Iulian Olden FOOD WEB THEORY AND ANALYSIS IN STREAM **EXPLORING OPPORTUNITIES FOR ADDRESSING ECOSYSTEMS THROUGH MODELING** MULTIPLE THREATS IN FRESHWATER CONSERVATION

15:30

Travis Schmidt, William Clements, Pete Cadmus
EVALUATING RESTORATION EFFECTIVENESS IN
MINING-POLLUTED STREAMS FOLLOWING SHIFTS TO

ALTERNATIVE STABLE STATES

SFS2016: RUNNING ON EMPTY

WEDNESDAY ORALS

WEDNESDAY ORALS

15:45 Sally Entrekin 13:45 James McKenna, Howard Reeves, David Holtschlag, Paul Seelbach, Michael Slattery, Carol Luukkonen UNCONVENTIONAL OIL AND GAS EXTRACTION MEASURING AND EVALUATING ECOLOGICAL FLOWS POSES NEW RISKS TO STREAM WATER QUALITY AND FROM STREAMS TO REGIONS: STEPS TOWARD OUANTITY NATIONAL COVERAGE 16:00 Emma Rosi-Marshall, Sylvia Lee, Erinn Richmond, John Kelly, Michael Grace, David Walters, Emily 14:00 Shannon Brewer, Worthington Thomas, Jonathan Kennen Bernhardt, Alexander Reisinger THE RELATIONSHIPS BETWEEN FLOW ALTERATION AND PHARMACEUTICALS AND PERSONAL CARE PRODUCTS FISH-TRAIT COMBINATIONS IN A LARGE GREAT PLAINS AS A THREAT TO RIVERS **RIVER** 16:15 John Kelly, Tiezheng Tong, Jean-Francois Gaillard, 14:15 Ernie Hain, Jonathan Kennen, Peter Caldwell, Stacy Kimberly Gray, Christopher Peterson, Chu Thi Thanh Nelson, Ge Sun, Steven McNulty Binh, Alexandra Ozaki WATER ABSTRACTION COULD TRUMP CLIMATE AND A COMMON ENGINEERED NANOMATERIAL, NANO-TITANIUM DIOXIDE, IS A POTENTIAL EMERGING LAND COVER CHANGE IN ALTERING FUTURE FISH SPECIES RICHNESS IN NORTH CAROLINA PIEDMONT THREAT TO RIVER ECOSYSTEMS **STREAMS** 16:30 Laura Craig, Erin Singer McCombs 14:30 Daniela Cortez, Ben Kefford, Ross Thompson, Ivor HOW THREATS TO RIVERS TRIGGER INNOVATION, **ACTION AND POLICY** DISTURBING FLOWS: RECOVERY CAPACITY OF MACROINVERTEBRATE ASSEMBLAGE AND TRAITS TO **S03 Global Perspectives on Environmental Flows ENVIRONMENTAL FLOW EXTREMES** Session Chair(s): Jonathan Kennen, Eric Stein, Angus Webb 14:45 Piotr Parasiewicz, Pawel Prus, Katarzyna Suska Location: 314 **DETERMINATION OF METHOD FOR ESTIMATING** 10:30 Thomas Cuffney, Jonathan Kennen ENVIRONMENTAL FLOWS (EFLOWS) IN POLAND AGGREGATING DATA FROM MULTIPLE AGENCIES: IMPLICATIONS FOR DETECTING BIOLOLGICAL 15:30 Wouter van de Bund COMMUNITY CHANGE ACROSS A FLOW ALTERATION E-FLOWS FOR THE EU WATER FRAMEWORK DIRECTIVE GRADIENT - FROM THEORY TO PRACTICE 10:45 Ashmita Sengupta, Kenneth McCune, Raphael 15:45 Sarah Yarnell, John Schmidt, Alison Whipple, Erin Mazor, Eric Stein, Brian Bledsoe, Stephen Adams, Beller, Cliff Dahm, Peter Goodwin, Joshua Viers, Christopher Konrad, Jason May **Geoffrey Petts** FROM GAGED TO UNGAGED: LINKING HYDROLOGIC FUNCTIONAL FLOWS IN MODIFIED RIVERSCAPES: ALTERATIONS TO BIOLOGY HYDROGRAPHS, HABITATS AND OPPORTUNITIES 11:00 Daren Carlisle, David Wolock 16:00 James White TRENDS IN FLOW ALTERATION OF CALIFORNIA'S QUANTIFYING MACROINVERTEBRATE COMMUNITY **RIVERS AND STREAMS (1950-PRESENT)** RESPONSES TO FLOW AND THERMAL VARIABILITY ASSOCIATED WITH RESERVOIR OPERATIONS 11:15 leanette Howard FUNCTIONAL FLOW NEEDS FOR CONSERVATION 16:15 **Christopher Konrad** TARGETS IN THE CENTRAL VALLEY OF CALIFORNIA RESOLVING THE INFLUENCE OF STREAMFLOW ON ECOLOGICAL PROCESSES IN THE LOWER CEDAR RIVER, 11:30 William Chen, Julian Olden WASHINGTON DESIGNING MULTI-YEAR ENVIRONMENTAL FLOW REGIMES TO BENEFIT NATIVE FISHES AND DETER Ross Thompson, Alison King, Richard Kingsford, 16:30 NONNATIVE FISHES DURING TIMES OF WATER Ralph Mac Nally, N. LeRoy Poff **SCARCITY** LEGACIES, LAGS, AND SHIFTING BASELINES: **ENVIRONMENTAL FLOW RESTORATION IN A CHANGED Avril Horne** 11:45 AND CHANGING WORLD USING CONDITIONAL PROBABILITY NETWORK MODELS TO OPTIMIZE ENVIRONMENTAL FLOW RELEASES 13:30 Dustin Perkins, Mark Wondzell, Aneth Wight, Mark Miller. Michael Scott HAVE ENVIRONMENTAL FLOWS LIMITED VEGETATION ENCROACHMENT ALONG THE GREEN AND COLORADO RIVERS IN CANYONLANDS NATIONAL PARK?

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14:30 16:45 Eric Stein, Jonathan Kennen, J. Angus Webb Thayer Hallidayschult, K David Hambright, Jessica FROM COBBLES TO CAUSATION: TRANSLATING FLOW Bever PERSISTENT ECOSYSTEM CHANGES LINKED TO ZEBRA **ECOLOGY RELATIONSHIPS TO MANAGEMENT ACTIONS** MUSSELS IN A SUBTROPICAL RESERVOIR C06 Disturbance 14:45 Anna Boegehold, Donna Kashian, Karim Alame, Session Chair(s): Peter Kiffney, Brent Tweedy Nicholas Johnson EFFECTS OF CYANOBACTERIA ON QUAGGA Location: 315 MUSSEL (DREISSENA ROSTRIFORMIS BUGENSIS) 10:30 Peter Carlson, Leonard Sandin, Erik Degerman, REPRODUCTION Claudia Von Brömssen UNDERSTANDING THE ECOLOGICAL COSEQUENCES 15:30 Tim Counihan, Steve Bollens OF DAM REMOVAL UTILIZING TRENDS IN QUAGGA AND ZEBRA MUSSEL MONITORING IN THE MACROINVERTEBRATE COMMUNITY DATA PACIFIC NORTHWEST. USA: HOW MUCH EFFORT IS 10:45 NEEDED TO DETECT RARE PLANKTONIC TAXA IN THE Hao-Yen Chang, Ming-Chih Chiu, Hsing-Juh Lin **COLUMBIA AND SNAKE RIVERS** DAM REMOVAL INFLUENCES THE DIETS OF THE FILTER FEEDER STENOPSYCHIDAE SP. IN STREAM ECOSYSTEMS 15:45 Karim Alame, Anna Boegehold, Nicholas Johnson, Donna Kashian 11:00 Elliot Koontz, Ashley Steel, Julian Olden CYANOBACTERIA REDUCES QUAGGA MUSSEL EFFECT OF WILDFIRES ON STREAM THERMAL REGIMES (DREISSENA ROSTRIFORMIS BUGENSIS) SPERM AND IMPLICATIONS FOR FRESHWATER FISH ACROSS MOVEMENT THE PACIFIC NORTHWEST 16:00 Jessica Beyer, K. David Hambright, Richard M. Zamor 11:15 Kevin Eliason, E.F. Benfield PREDICTING THE PRESENCE OF AN INVASIVE THE RESPONSES OF MACROINVERTEBRATES TOXIGENIC ALGAL SPECIES ON A REGIONAL SCALE TO REMOVAL OF RIPARIAN RHODODENDRON UNDERSTORY IN SOUTHERN APPALACHIAN STREAMS 16:15 K. David Hambright, David A. Caron, Adriane C. Jones, Brenda Allison Witt, Richard M. Zamor 11:30 Simon Townsend, Michael Douglas, Julia Schult WHOLE FOOD WEB RESTRUCTURING BY AN RECOVERY OF BENTHIC PRIMARY PRODUCERS TO **ECOSYSTEM DISRUPTIVE ALGAL BLOOM SPECIES** FLOOD DISTURBANCE IN A TROPICAL SAVANNAH **RIVER** 16:30 Courtney Larson, Jennifer L. Pechal, Deborah McCullough, M. Eric Benbow 11:45 Jessica Haghkerdar, Hamish Greig, Emma Toth, A TERRESTRIAL INVADER, EMERALD ASH BORER Alexis Ireland, Jack McLachlan (AGRILUS PLANIPENNIS), INFLUENCES STREAM THE INFLUENCE OF SUCCESSIONAL STATE ON **COMMUNITY SPECIES SORTING** COMMUNITY RESPONSES TO DISTURBANCE IN POND **MESOCOSMS**

C11 Invasive Species

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Session Chair(s): Mark Pyron, Elisabeth I. Meyer, Mateo Scoggins

Location: 315

13:30 Elisabeth I. Meyer, Jessica Rosolowski, H. Wolfgang

> DOES INCREASING DENSITY STRESS FAVOR INVASIVE AMPHIPOD SPECIES IN CENTRAL EUROPEAN STREAMS? EVIDENCE FROM A LAB EXPERIMENT

13:45 James McNair, Ryan Thum, Syndell Parks MODELING LAKE INVASIONS BY CRYPTIC WATERMILFOIL TAXA AND THEIR ECO-EVOLUTIONARY

RESPONSES TO MANAGEMENT 14:00 Michele Larson, Amy Krist

INFLUENCE OF SPECIFIC ELECTRICAL CONDUCTIVITY ON NATIVE AND INVASIVE SNAIL GROWTH RATE AND MORTALITY

14:15 Ronald Griffiths, Donald Schloesser THE ENIGMATIC MUD SNAIL, MARSTONIA LETSONI, INVADES LAKE ST. CLAIR.

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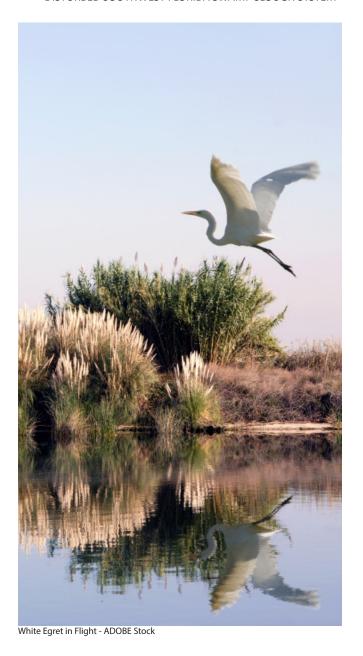
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2017 ANNUAL MEETING



sfs2017

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Designing our Freshwater Futures:

Human civilization relies on a sustainable supply of fresh water to satisfy our thirst, water our crops, support fisheries, provide energy, and enrich our experience of nature. We are equally reliant on freshwater ecosystems to dispose of our wastes and to transport our commodities. These needs are often in conflict with one another, and unless carefully managed may both conflict with our desire to maintain the beauty and biodiversity of rivers. Much freshwater science has focused on documenting the identity and distribution of freshwater species and their loss; how our farms, cities, dams and mines degrade the physical, chemical and biological integrity of receiving streams. As a result, we are adept at documenting the decline - research designed to identify solutions has proved more elusive.

In our Raleigh 2017 meeting, we want to challenge the SFS community to shift their focus to how freshwater science can help imagine and implement solutions to the complex set of problems that plague freshwaters. Advancing our understanding of ecological processes will continue to be important, but is insufficient to meet future challenges. At SFS 2017 we will discuss and debate compelling ideas about how freshwater scientists can individually and collectively contribute to solution pathways that improve the trajectory of freshwater ecosystems. Our goal is to encourage all members of SFS to use their science to Inspire the public by sharing stories about the wonders of freshwater ecosystems; Inform stakeholders about the threats to and possibilities for future freshwater management and Insert our knowledge into real-time policy decisions, management actions, and technological innovations that will ultimately determine our freshwater future.

Please visit the Greater Raleigh Convention and Visitor's Bureau booth for further details concerning the meeting; or visit the SFS website, www.sfsannualmeeting.org.

