
**Society for Freshwater Science
2016-17 Annual Reports from
Standing Committees**



Finance Committee Report for 2016 Calendar Year

Committee membership

Kim Haag - Chair (appointed)
Mike Swift (Treasurer)
Irwin Polls (Journal Bus Mgr, non-voting)
Dave Strayer (Past President)
Matt Whiles (President)
Emily Bernhardt (President Elect)
Betsy Colburn (appointed)
Anna Hamilton (appointed)

The Society for Freshwater Science (SFS) ended 2016 in sound financial condition, with adequate operational income to meet operational expenses, and sufficient assets to provide a strong financial reserve against unanticipated events. The total revenue for SFS was \$93,972, including dues (\$70,694), awards income (\$1,140), miscellaneous income (\$56), and interest and dividends on the Investment Account (\$22,075) and the Checking Account (\$7). Operating expenses (\$52,490) and SFS direct expenses at the annual meeting (\$7,279) totaled \$59,769, resulting in a positive balance of \$34,203 for 2016.

The profit from the 2016 Annual Meeting in Sacramento, CA was \$30,298, after allocations to the various committees. The annual meeting profit was made available in equal parts to the Special Projects Fund (\$15,149) and the Strategic Plan Initiatives Fund (\$15,149). A total of \$7,522 was spent from the Special Projects (Presidential Discretionary) Fund in 2016 on requests approved by the President. A total of \$22,190 was spent on Strategic Plan Initiatives authorized by the Long-Range Planning Committee.

The cash assets for SFS at the end of 2016 were \$675,219, including the Checking Account (\$82,345) and the Investment Account (\$592,874). This includes the money set aside for use by the various special funds and committees (Student Resources Committee, Conservation and Environmental Issues Committee, Technical Issues Committee, Special Projects Fund, and Strategic Plan Initiatives Fund), which had a combined balance of \$84,171.

The net assets of the SFS Endowment Funds at the end of 2016 were \$703,778. Awards of \$25,290 were distributed in 2016 by the Endowment Committee from interest and dividends earned during 2015 and a donation from the Student Resources Committee. Interest and dividends earned on the Endowment Funds in 2016 (\$20,882) are available for awards in 2017.

The total SFS membership in 2016 was 1,502 and was composed of 872 Regular members, 158 Early Career members, 408 Student members, and 64 Emeritus members. SFS operating expenses in 2016 were \$38.82 per member, financed by dues of \$60 (Regular), \$40 (Early Career), and \$30 (Student). The remaining \$30 (Regular), \$25

(Early Career) and \$10 (Student) of dues paid by members provides access to *Freshwater Science* and does not contribute to SFS operations. The management contract signed with Utah State University in 2014 continues to maintain affordable operating expenses for SFS.

The total revenue for Volume 35 (2016) of *Freshwater Science* was \$194,776, and the total expenses were \$175,187. Overall, *Freshwater Science* had an excess of income over expenses of \$19,589 for 2016. The excess income resulted from a reduced number of manuscripts submitted to *Freshwater Science* during 2016 and fewer printed pages. The balance in the *Freshwater Science* checking account on December 31, 2016 was \$73,954, and the balance in the savings account was \$52,652. The balance in the Endowed Publication Fund for *Freshwater Science* on December 31, 2016 was \$276,834. The Fund earned \$2,586 in interest and dividends during 2016. No endowed funds were awarded to authors during 2016.

The Taxonomic Certification Program (TCP), which is administered by SFS, has been moved from Acadia University to the Stroud Water Research Center and will continue operations under the guidance of Bern Sweeny. The TCP had revenue of \$26,215 in 2016 from certification testing fees and grants from several agencies, and expenses of \$35,211 associated with administering certification tests and maintaining the program. The net assets for the TCP at the end of 2016 were \$35,111.

The membership as of April 30, 2017 was 973. Typically the membership as of that date is about 85% of the total membership for the year, which indicates a lower than expected number of members who have joined for 2017. Efforts to date to increase or maintain membership, including offering young professionals a lower rate, initiating chapters, and including the cost of membership in meeting registration, have apparently not succeeded. The Finance Committee is continuing to monitor SFS income and expenses, and will strive to ensure that operating expenses do not exceed projected operating income.

Respectfully submitted
Kim H. Haag
Finance Committee Chair

Board of Trustees – Endowment Committee

Committee membership

Stuart Findlay (2018)(Chair)

Robert Creed (2017)

Wil Wollheim (2019)

Amy Braccia (2017)

Emily Bernhardt (Pres) *ex officio*

Mike Swift (Treasurer) - *ex officio*

Kim Haag (FC Chair)- *ex officio*

Endowment Fund Awards

Endowment award application announcements and procedures were posted on the SFS website in December 2016. The Endowment Committee received and reviewed 42 applications, including 16 applicants to named funds and an additional 26 applicants to the General Fund. Students who applied for named funds were also eligible for General Endowments awards. Among the 42 applicants, 29 were PhD students, 11 were Masters students, and 2 were undergraduate students (in addition to the undergraduate applications made separately to the Undergraduate Travel Award and judged by the Student Resources committee). We received 7 International applications.

In the early spring of 2017, 16 travel and/or research awards were made:

Raul Costa Pereira	Multi-scale impacts of overfishing on seed dispersal by fish in wetlands	Americas	Universidade Estadual Paulista
Jade Ortiz	An investigation of spatial complexity in river-floodplains and its effects on insect emergence and terrestrial insectivores	General	Idaho State University
Rebecca Eckert	Patterns of macroinvertebrate diversity associated with periphytic algae on leaf debris	General	University of Maryland
Devin DiGiacopo	Ecological Consequences of Evolved Pesticide Tolerance in Amphibians	General	Binghamton University
James Paris	Role of spatial complexity in river-floodplain food webs: consequences for ecological theory, floodplain management, and restoration application	General	Idaho State University
James Junker	Patterns of energy and element storage across a natural temperature gradient	General	Montana State University
Samantha Oliver	Consequences of differential retention of nitrogen and phosphorus in lakes	General	University of Wisconsin Madison
Bree Richardson	Biogeochemical cycling in Great Lake estuaries as climate change continues	General	Kent State University
Anna Boegehold	Assessment of cyanobacteria to suppress growth and development of dreissenid larvae	General	Wayne State University

Lisa Haneul Kim	Anthropogenic Litter in Urban Streams: Spatial Distribution and Role in Leaf Litter Decomposition	General	Loyola University Chicago
Rachel Voight	Dissolved inorganic carbon sources in boreal forest streams underlain by discontinuous permafrost	General	University of Alaska Fairbanks
Hilary L Madinger	Nitrate control of nitrogen fixation rate in Western streams	General	University of Wyoming
Tyler B. Hampton	Revealing the Role of Less-Mobile Porosity in Hyporheic Denitrification and Greenhouse Gas Production	Mulholland	Michigan State University
Marie Leys	Ecology of a common alpine mayfly: new perspectives from cryptic lineages	Petersen	Eawag
Alberto Scotti	Employing macroinvertebrates for analyzing the environmental impacts of a _run-of-river_ hydropower plant on a European alpine river.	Simpson	EURAC Research
Jessica Rick	Phylogenetics of Lake Tanganyika's Lates radiation	Systematics	University of Wyoming

All applicants were notified by e-mail of the outcome of their application by the 2nd week of March. All but two of the award winners plan to attend the meeting in Raleigh, NC where they will receive award checks at the Endowment Reception.

Note: For some of the funds, the amount available for awards this year exceeded the amount we actually awarded. If we have more money available for awards then it might be time to revise award amounts for some of the funds. **It may be time to increase the number of awards that can be made from some funds and raise award amounts for some funds over the next few years. We had no applicants for Fellows or Boesel Sanderson**

Number of Student Applicants

Table 1 shows the trend for 2011-2016 in the total number of applications the Endowment Committee has received each year (not including undergraduate travel awards). The year with the most applications was 2011 with 74 while the year with the fewest was 2013 with 36. The Committee received 42 applications in 2016, which is below the average number of applications (54.66) for this period. Applications to several of the named funds have been low in recent years. **Clearly the committee and the society need to do a better job of making students aware of these funds and encouraging them to apply. I will take this issue up with the committee in Raleigh. Do we ask the applicants how they knew about the awards?**

Table 1. Number of applications to each fund by year (2011-2016).

Number of Applicants										
	Gen	Simp	Amer	Peter	Boe-San	Cons	System	Fell	Mulh	Tot
2011	46	17		4	2	--	2	3	--	74
2012	37	12	1	3	1	--	1	4	--	59
2013	24	5		2	1	--	1	3	--	36
2014	24	8	1	9	2	--		1	--	45
2015	29	7	2	1	1	--	3	2	14	59
2016	23	12	4	3	3	--	1	1	8	55
2017	26	5	2	3	0		1	0	5	42

Donations

Thank you notes were e-mailed to all contributors to the Endowment Funds, and contributors (above \$100) and student awardees were invited to attend the reception at the annual meeting in Raleigh NC. During the past year (Cal year 2016) we received \$7,915 from 112 donors) which continues a downward trend. In 2015, we received 127 donations totaling \$8,854 which was down a little from 2014 when we received 169 donations from SFS members totaling \$10,907.

Other Endowment Committee Business

2) “Succession” We need to re-visit this, using either SFS By-laws or making our own recommendation.

Anna Hamilton, the previous chair of the Endowment Committee, raised the issue of whether the chair of the Endowment committee should serve a two year term instead of a one year term. The tradition has been that committee members serve a 5 year term, the last of which they serve as chair. Apparently, there has been some discussion about this idea with the Executive Committee regarding the potential benefits of implementing this new pattern (assuming the chair in the 4th year of the term of service instead of just the fifth year and continuing as committee chair in year 5). I am not aware of these discussions but see pros and cons of the approach. The benefit would be that each chair would not be figuring out the process from scratch every year, which, frankly, is a pain. The second year of service would not be quite as daunting for the chair. The negative aspect would be that one individual would have to perform this service two years in a row. Honestly, I think the system will work fine regardless of whether the chair serves a one or two year term. However, clearer, readily-available guidelines of the chair’s responsibilities and good communication between the previous chair and the current chair would go a long way towards making the job less stressful. (note: Anna Hamilton was incredibly generous with her time helping me figure out all of my responsibilities). I plan to provide a complete set of responsibilities (along with a schedule) to the next chair.
[Thank you Bob!]

As an alternative to the idea of someone serving two years as chair, a member of the committee could serve as chair in their fourth year and then advise the next chair in their fifth year. **Kind of what we did this year.** The previous chair would serve their last year

as a regular committee member and would be able to help out the current chair without it being an extra committee assignment. I would be interested in getting feedback from the Executive Committee about this idea. It would have the advantage for the committee of retaining the knowledge and experience gained from chairing the committee for an additional year. If there is interest in this idea among the members of the Executive Committee then the Endowment Committee can make a proposal and present it to the Executive Committee (if that is how these changes proceed).

Elections and Place Committee
Matt Whiles, Chair

Committee membership

Matt Whiles (President)(chair)

Dave Strayer (Past President)

Krista Capps (2017)

Michelle Evans-White (2018)

Amy Burgin (2019)

Joy Brisighella

Our activities were to put together the slate of candidates for the 2017 election and evaluate possible sites for the 2019 and 2020 annual meetings, with the goal of making recommendations to the BOD about these venues.

The only election for this year was for SFS President. We developed a list of candidates based on prior lists generated by this committee, and through discussions within the committee. We developed a list of eight ranked candidates for President and I (Whiles) began contacting them. The top candidate (Dodds) declined, but the second (Tank) and third (Baker) ranked candidates agreed to run in the election. Jennifer Tank was ultimately elected as the next SFS President. We selected Salt Lake City for the 2019 meeting; the 2020 meeting will be a joint meeting in Madison, WI.

Awards Selection Committee Annual Report 2017

Committee Chair:

Colden Baxtor, Chair (President-Elect)

Award of Excellence and Distinguished Service Award Subcommittee

Subcommittee membership

Emma Rosi-Marshall (2016)(chair)

Randy Fuller (Past president 2013)

Dave Strayer (Past President 2014)

Matt Whiles (past President 2015)

Caryn Vaughn

Bob Naiman

Dave Oenrose

The committee received nominations for both awards and met on 30 May 2017 to discuss and select award winners. We received excellent candidates for these awards for our consideration.

The committee has the following feedback to relay to the board:

1. Nomination process: The first is that the submission portal for the nominations did not work and people had to (and luckily knew to) send these nominations directly to the committee chair. This needs to be rectified. Also, we should encourage nominators to compile all materials into 1 pdf for ease of review.
2. We are curious whether it would be possible to change the bylaws to be able to make these awards to more than one person in a year. We have such amazing people in our society that we might like the committee to have the leeway to make more than one award in a year. This would need to be considered and approved by the BOD.
3. We would like a mechanism to pass along nominations that we consider to the SFS Fellows program. Would this be possible?
4. There are a number of nominations that will be carried forward for consideration next year and those nominations have been conveyed to next year's chair, Caryn Vaughn

The subcommittee selected Walter Dodds to receive the 2017 Award of Excellence and Sue Norton for the 2017 Distinguished Service Award. A strong suite of nominations for the 2018 awards were received (including one for the Distinguished Service Award that was "carried forward" from 2017) and are currently being considered. Recommendations for the winners will be submitted to the Board of the SFS at the annual meeting. We are grateful to those who have nominated their peers for these prestigious awards.

Hynes Award Sub-Committee

Amy Marcarelli (2017) (Chair)

Angus McIntosh (2017)

Sue Eggert (2018)

Wyatt Cross (2018)

Julian Olden

Dan Allen

In 2016, the Hynes award committee selected Dr. Erin Hotchkiss for her paper, “Hotchkiss, E. R. and R. O. Hall. 2015. Whole-stream ¹³C tracer addition reveals distinct fates of newly fixed carbon. *Ecology* 96: 403-416, DOI: 10.1890/14-0631.1”. In the revised timing for Hynes awards implemented this year, Dr. Hotchkiss will be making her award presentation at the Raleigh meeting in June. The award information was updated on the SFS website in Dec 2016.

Advertising for the 2017 award included repeated emails to the membership associated with other society award solicitations and annual meeting email blasts, along with separate emails encouraging nominations from past Hynes award winners. The Hynes award committee reviewed 10 nominations for the 2017 award, which included 7 carryover nominations from 2016 of papers/candidates who still met the review criteria, and 3 new nominees. It should be noted that 6 new nomination packets were received, but 3 were for the same paper/individual. Of the carryover nominations, 2 were updated with new letters and/or CVs; however, no efforts were made to contact past nominators to request updated information for all packets, as the key factor for evaluation in Hynes awards is the paper itself, not the evaluation of the recommender or career trajectory of the nominee. 3 committee members has conflicts of interest with 2 of the nominations, and therefore we used the adjusted voting scale as described in the SFS operations manual for the first round of voting. The committee completed the first round of voting by 17 May and finalized their recommendation following a phone call on 22 May.

Following one round and voting and subsequent consensus, the committee selected Amanda DelVecchia as the recipient of the 2017 Hynes Award for New Investigators for her paper, "Ancient and methane-derived carbon subsidizers contemporary food webs" published Nov 2016 in *Nature Communications*. The committee found this paper to be an elegant study that combines classic invertebrate benthology with geochemical approaches to demonstrate that stoneflies in gravel-bedded river floodplains are supported by methane-derived carbon. The committee agreed that Dr. DelVecchia's original contributions, nested within the long-term studies on the Nyack River floodplain,

constituted an important leap forward in our understanding of the materials that fuel aquatic foodwebs.

Some challenges and suggestions from this year:

1. Timing of submission deadline – the change this year to have the Hynes award winner selection and presentation to match that of the other SFS awards has been very helpful, but one difficult consequence is that the deadline for award submissions was dramatically delayed to May 1. Therefore, the committee review activities are happening at a hectic time, overlapping with preparation for the SFS annual meeting, the end of spring semesters and the start of summer field season. It would be very helpful if the nomination deadline in future years could be moved back to 15 March, as it is currently listed in pg. 18 of the SFS operations manual. This year the delayed deadline worked okay because individual committee members were able to start review of the carryover packets before the new awards arrived – if we had received 8 new nominations as we did in 2016, it would have been very difficult to complete the review process in a timely fashion.

2. Submission of nomination packets - In response to issues with award submission via email in 2016, SFS established a new nominations submission portal for all awards this year. Although some nominators were able to easily submit their Hynes nomination packets via this portal, others received errors that results in a very disjointed and confusing process, and once again a number of email submissions directly to the chair. Next year, all efforts must be made to insure that web submissions will be smooth and clear for all nominators, including email notifications sent to the nominator and the committee chair when packets are submitted through the nomination portal.

3. Multiple submissions - this year one paper was nominated 3 times by 3 different individuals, which could be a way that nominators are trying to get around the requirement for 1 nomination letter per paper. Other packets were joint nominations, where multiple letters were included for more than one submission. Because the award evaluation is supposed to be based solely on the article itself, the varying number of letters of support should not influence the evaluation of the packets – on the other hand, multiple nominations letters may unduly influence evaluations, when others have observed the rules and only submitted one letter. The committee recommends that the description of the award nomination packet be revised to clearly reflect the purpose of the nomination letter and the primacy of the publication in the evaluation process to prevent wasted effort on the part of nominators gathering multiple letters of nomination or support.

4. Rollover nominations – this year we had many rollover nominations, including several that were less competitive in now 2 years of nominations and reviews. Following

discussion, the committee decided to continue to maintain all nominations and roll them over for the duration of their eligibility for the award.

5. Continuity of committee chairs – Chair Marcarelli will prepare the website info for the 2017 award winner and supply to Awards Chair Baxter. She will also hand the list of carryover nominations for 2018 and complete packets off to the new committee chair (committee members in their last year of service are eligible).

Environmental Stewardship Award Sub-Committee

Subcommittee membership

Matt Whiles (past President 2015)

Laura Taylor (2017)

Chris Peterson (CEIC, 2016)

Michelle Hornberger (TIC, 2016), Chair

Ron Griffiths (SPS, 2016)

The ESA committee have two nominations to consider this year. The nomination packages were forwarded to the committee on May 15, 2017 and a decision will be reached by May 26th 2017. A memo announcing the selection will be sent to the Chair of the awards committee no later than May 30th 2017.

Student Awards sub-committee Annual Report 2017

Subcommittee membership

Peggy Morgan - Chair

Three hundred and eleven (311) student presentations were evaluated by judges at the 2016 SFS conference in Sacramento, CA. Two hundred and sixty nine (269) were presented by graduate students. Of these, one hundred and eighty eight (188) were oral presentations and eighty one (81) were posters. Forty two (42) were given by undergraduate students. Of these, four (4) were oral and thirty eight (38) were posters. There were many fine presentations and all the students are congratulated for their participation.

Best oral presentation in basic research.

Ryan Peek

University of California, Davis

**LINKING WATER SOURCE SIGNATURES WITH NATIVE AMPHIBIAN
BREEDING TIMING IN A NORTHERN SIERRA NEVADA WATERSHED**

Runner up oral presentation in basic research.

Kelley Fritz

Southern Illinois University

**NUTRIENT FLOWS AND SUBSIDIES ACROSS AQUATIC-TERRESTRIAL
BOUNDARIES OF TEMPORARY PONDS VIA AMPHIBIAN MIGRATIONS**

Best oral presentation in applied research.

William Deacy

Flathead Lake Biological Station, University of Montana

**KODIAK BROWN BEARS SURF THE SALMON RED WAVE: DIRECT
EVIDENCE FROM GPS COLLARED INDIVIDUALS**

Runner up oral presentation in applied research.

Scott Hotaling

University of Kentucky

**DEMOGRAPHIC MODEL TESTING REVEALS A HISTORY OF
DIVERGENCE WITH GENE FLOW FOR A GLACIALLY-TIED STONEFLY IN
A CHANGING POST-PLEISTOCENE LANDSCAPE**

Best presentation emphasizing methodology.

Eric Scholl

Montana State University

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

Best poster presentation in basic research.

Sydney Ruhala

Michigan State University

**DISSOLVED ORGANIC CARBON CONDITIONS ACROSS THE STREAM-
GROUNDWATER INTERFACE OF A THIRD-ORDER RIVER NETWORK**

Best poster presentation in applied research.

Rachel Voight

University of Alaska Fairbanks

**CARBON DIOXIDE IN STREAM DRAINING WATERSHEDS OF BOREAL
FOREST STREAMS OF INTERIOR ALASKA**

Best Oral or Poster Presentation by an Undergraduate Student

Emily Wolfe

Evergreen State College

**STREAM COMMUNITY ASSEMBLY FOLLOWING THE CATASTROPHIC
ERUPTION OF MOUNT ST HELENS, WA, USA**

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

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

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

Elsevier/Academic Press

Frigid Units

Anonymous Donors

Participating Judges:

Vicenc Acuna

Tracey Anderson

Angela Arthington

Antoine Aubeneau

John Bailey

Michelle Baker

Barry Baldigo

Candice Bauer

John Bailey

Emily Bernhardt

Melody Bernot

Becky Bixby

Cheryl Black

Steve Blumenshine

Michael Bogart

Will Bouchard

Denise Bruesewitz

Ayesha Burdett

David Buchwalter

Francis Burdon

Romi Burks

Eric Burres

Darren Carlisle

Dominic Chaloner

Patricia Chambers

Jan Ciborowski

Katie Costigan

Alan Covich

Clint Davis

Grant DeJong

Amanda Delvecchia

Walter Dodds

Sami Domisch

Barbara Eikenberry

Andrea Encalada

Sally Entrekin

Len Ferrington

Stuart Findlay

Deb Finn

Kenneth Fortino

Steve Francoeur

Therese Frauendorf

Leopold Fuereder

Randy Fuller

Paula Furey

Liliana Garcia

Lee Grapentine

Michael Griffith

Natalie Griffiths
Robert Hall
Jasmine Hamilton
Stephen Hamilton
Ryan Hill
Timothy Hoellin
Erin Hotchkiss
Jane Hughes
David Janetski
Tim Jardine
Richard Johnson
Sherri Johnson
Stan Kemp
Theodore Kennedy
Jonathan Kennen
Peter Kiffney
Ryan King
Lauren Kinsman-
Costello
John Kominosky
J. Krauss
Stefanie Kroll
Mathias Kuemmerlen
Lisa Kunza
James Kurtenbach
Gary Lamberti
Eric Larsen
Peter Levi
Judy Li
Dan Magoulick
Kalina Manoylov
Christopher Matthaehi
Jason May
Raphael Mazor
Bill McDowell
Daniel McGarvey
Angus McIntosh
Elizabeth Meyer
Alexander Milner
Joseph Morgan
Peggy Morgan
Jeffrey Muehlbauer
Justin Murdock
Nicole Novodvorsky
Alison O'Dowd
Mary Ogdahl

Jon Olafsson
John Olson
Brian O'Neill
Catherine O'Reilly
Stephanie Parker
Steffen Pauls
Bobbi Peckarsky
Dave Penrose
Elizabeth Perkin
Michael Peters
LeRoy Poff
Alonso Ramirez
Alexander Reisinger
Trefor Reynoldson
John Richardson
Kristine Richter
Blanca Rios-Touma
Chris Robinson
Wayne Robinson
Emma Rosi-Marshall
Elizabeth Meyer
Allison Roy
Todd Royer
Amanda Rugenski
Patricia Saunders
Travis Schmidt
Jennifer Shanteau
Brian Shelley
Dennis Shiozawa
Michael Shupryt
Paul Sibley
Pam Silver
Robert Smith
Len Smock
Daniel Sobota
Patti Spindler
Eric Stein
Stefan Stoll
Stephanie Strachan
Dave Strayer
Rachel Stubbington
Elizabeth Sudduth
Bern Sweeney
Mary Szafraniec
Jeremy Tiemann
Nels Troelstrup

Piet Verdonshot
Bruce Vondracek
Ian Waite
David Walters
Angus Webb
Jack Webster
Mark J. Wetzel
Matt Whiles
Jo Wilhelm
Jason Wisniewski
Wilfred Wollheim
Matt Wooten
Adam Yates
Lydia Zeglin
Xiaowei Zhang

Long-Range Planning Committee Annual Report 2017

Committee membership:

Nick Aumen(Chair)

Steve Francoeur

Tom Arsuffi

Judy Li

Melissa Martin

Jen Tank

Eugenia Marti

Andrea Encalada

Petra Kranzfelder

The LRPC had very little activity this year, as no strategic plan-related proposals were brought forward for our review. As Chair of the LRPC this past year, I did serve on, and participated in meetings and discussions of the Publications Committee. I also served on the Executive Director ad hoc committee that formulated the proposal for the ongoing ED position and search. The LRPC is charged with developing the next 5-year Strategic Plan due in 2019 (presumably to be acted upon by the society membership at the 2019 business meeting. I would propose that once the coming year's LRPC membership and chair are established, they should begin the early stages of planning for this effort this calendar year. Development of the plan requires a large amount of work, including soliciting input from the membership, standing committees, and the society leadership. The bulk of the work would be in the following year, leading up to the 2019 meeting. Important elements of the plan are the research and reporting of present society trends and patterns, a review of accomplishments related to the 2014 Strategic Plan, and Goals, Objectives, and Potential Actions for the 2019 Strategic Plan.

The 2014 Strategic Plan can be accessed at: http://www.freshwater-science.org/Business/5-Year-Strategic-Plan-2014/SFS_Strategic_Plan_2014-2019.pdf

Annual Meeting Committee Annual Report 2017

The 2017 SFS annual meeting is being held this year at the Raleigh Convention Center and the adjacent Marriott and Sheraton Hotels in North Carolina from 4-8 June 2017.

Committee membership:

The co-chairs of the Annual Meeting Committee, Michael Paul (Tetra Tech Inc.) and Jim Heffernan (Duke University) worked jointly on local arrangements and the scientific program with Heffernan emphasizing local arrangements, and Paul emphasizing the scientific program. The following committee members have assisted us:

Geoff Poole (Montana State University)
Wyatt Cross (Montana State University)
Krista Capps (University of Georgia)
Phillip Bumpers (University of Georgia)
Amy Rosemond (University of Georgia)
Marcelo Ardon (North Carolina State University)
Julie Demeester (The Nature Conservancy)
David Penrose (Penrose Environmental)
Bob Hall (University of Wyoming)
JoAnna Blaszcak (Duke University)
Natalie Griffiths (Oak Ridge National Laboratory)
Steve Thomas (University of Nebraska)
Jen Tank (Notre Dame University)
Eugenia Marti (CEAB)

The AMC has worked closely with Angie Griffiths and her staff at Utah State University Conference Services and Emily Bernhardt, SFS President.

The theme of the meeting is “Designing our Freshwater Futures”. Three plenary speakers will address this theme in their addresses, which will take place Monday through Wednesday. Jeremy Monroe, Freshwaters Illustrated, will give Monday’s plenary address. Tuesday’s plenary will feature Kristen Podolak, an ecologist with The Nature Conservancy. On Wednesday, Nancy Stoner, Water Program Director and Senior Policy Fellow at the Pisces Foundation will give the plenary address. The three plenary speakers bring a variety of perspectives designed 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.

In addition to the plenary talks, the program features over 800 oral and poster presentations and five pre-meeting technical workshops, including a focus on inclusivity and diversity in SFS. Many student-centered and early-career centered activities are also planned, including the SRC Student-Mentor Mixer, Early Career Mixer, and Luncheon with Nancy Stoner. The meeting will feature nightly mixers at the Raleigh Convention Center, a 5K run on Wednesday afternoon, and the off-site social at the North Carolina Museum of Natural

Sciences. The SFS board meetings are scheduled during the weekend prior to the annual meeting. Three field trips are scheduled, including a local farm tour, brewery tour, and Black River paddling tour.

The meeting will officially begin Sunday evening and will include a brief welcome address by the AMC, a presentation on inclusivity efforts within the society by Alex Webster and Eric Moody, followed by Emily Bernhardt presidential address, the Environmental Stewardship Award to Dave Lenat, the Distinguished Service Award to Sue Norton, announcement of the Hynes Award recipient (currently unknown), 2016 Hynes Awardee Presentation by Erin Hotchkiss, and the Award of Excellence presentation and talk by recipient Walter Dodds.

SFS has instituted a Fellows Program this year and it is being highlighted at the meeting. Throughout the meeting program, we have events honoring our inaugural class of Fellows. These include celebratory posters throughout the meeting space, an induction ceremony of all fellows and an inaugural Fellows mixer Thursday Evening.

The budget for the Raleigh meeting was conceived based on an attendance scenario of about 792 attendees. The downward adjustment over previous years was a contingency developed because of concerns regarding the effects of NC House Bill 2 and travel bans to NC instituted by several states, counties, and cities. As of May 22, 2016 there are 887 registrants and we anticipate this number will increase. Additionally, as of May 22, we are above our contingency of 10% of the conference budget. As of May 4, we had not met our minimum number of hotel nights with the Sheraton and Marriott, and this was a source of great concern in part caused by other local hotels offering much lower rates. We worked with Jeff Muelhbauer and Nick Aumen to encourage USGS employees to switch to the meeting hotels at society-subsidized federal rates (i.e., SFS to pay the difference between hotel rate and government rates). As of May 22, 20 did but this was still short of the number who could. The subsidy will affect the meeting income, but it was necessary to avoid a larger impact on the room requirements. We will not know the final impact until all hotel reservations are completed. We worked to send out additional reminders to members about where to book. We suspect that as the Internet continued to make it easier to find hotels, more participants are finding less costly lodging options on their own. We encourage future meetings to be very cautious on room commitments.

Mike Paul and Jim Heffernan reached out to several prospective sponsors and secured several sponsorships. While we have been successful with sponsorship from some local offices of national NGOs, national sponsorship has been slower to materialize. For future meetings, we add to past recommendations the appointment of an individual to work across meetings to assure continuity in our national fund raising. Such a pursuit would be appropriate for the longer-term institutional memory of a Society-level committee.

Finally, our meeting experience also highlights the large effects on meeting planning that can arise from political events out of our control. The passage of HB2 has influenced our meeting planning in a number of ways, including the aforementioned likely effects on attendance, and re-orientation of meeting planning priorities. In October, we learned of discussion of a boycott of the meeting due to its location in Raleigh after the passage of HB2. By reaching out to members rightly concerned about this issue on social media, we were able to speak knowledgeably about the local- and state- politics. We ultimately engaged in a productive dialogue that resulted in the formation of an ad hoc inclusivity committee, and adoption of many of its recommendations. The end result has been to create a learning experience, and has provided the opportunity to host events at the meeting for the society that attend to issues of diversity and inclusion and that will hopefully improve such inclusivity within our own society.

For future meetings, we recommend that a member of the Diversity and Outreach be named to the annual meeting to ensure that meeting planning continues to build on this year's efforts well in advance of selecting meeting location options. While HB2 passage occurred well after our financial commitment to Raleigh, other states, counties, and cities have passed or are considering similar laws and this should be considered in future meeting location selection. Our experience illustrates the importance of having program chairs who are as closely connected to the meeting location as possible, and are engaged on social media at early stages. Future meeting planning committees should be aware of the potential for grassroots responses to the political setting of a meeting, as well as formal institutional responses such as state-level travel bans. Such political events certainly include the potential for similar laws affecting civil rights in other states, but could plausibly include a much wider range of issues.

Publications Committee Annual Report 2017
Chuck Hawkins, Chair

Committee membership:

Chuck Hawkins (2017), Chair
Sally Entrekin (2016)
Seth Wenger (2017)
David Buchwalter (2018)
Nick Auman (Voting, Chair LRPC)
Ayesha Burdett (Voting, Co-Chair PIP)
Deb Finn (Newsletter Editor)
Pamela Silver (Journal Editor)
Irwin Polls (Journal Business Mgr.)
Mark Wetzel (Literature Rev. Editor)
Ryan Hill (Web Editor)

Publication Committee responsibilities

The Publications Committee (the “PC”) will provide long-range planning and broad oversight of all publications published under the Society’s name, as approved by the Board. The PC provides oversees the Freshwater Science Editorial Subcommittee, the Newsletter Editorial Subcommittee, the Literature Review Subcommittee, and the Society for Freshwater Science Web Site Subcommittee.

Publication Committee chair’s 2016 report

Committee rotations – Effective this meeting, Seth Wenger will complete his three-year term on the PC. I thank Seth for the service he provided to the PubCom. We are in the process of identifying Seth’s replacement.

Overview – Since the 2016 meeting in Sacramento, the PC has been involved in two activities related to the Society’s web site (soliciting and selecting a vendor to redesign the Society’s web site and engaging with the selected vendor to design a new Society logo) and has just started recruiting a replacement for Deb Finn, the Newsletter editor, who is stepping down due to the increased responsibilities she has assumed with her new academic position.

Web site and logo: A web redesign committee consisting of Patina Mendez (past web site editor), Ayesha Burdett and Becky Bixby (co-chairs of the Public Information and Publicity Committee), Ryan Hill (current web site editor), and Chuck Hawkins (PubCom chair) drafted a RFP for a web site redesign in September 2016 and requested bids from 40 vendors. The committee received 6 bids, by mid-October, which ranged in price from \$13,600 to \$78,960. By mid-November, we had selected two vendors to interview (both bid approximately \$30,000).

Following those interviews (22 November), we recommended that the Board secure the services of Agentic, Inc.

After starting discussions with Agentic, we recognized that a web site redesign could not be pursued without consideration of our logo. Previous informal discussions regarding a potential change in the Society's logo prompted the committee to ask the Board for guidance regarding whether we should move forward with designing the new web site around the current logo or consider a new logo. Recognizing that many members felt the current logo did not adequately represent the breadth and stature of the Society, the Board then requested that the redesign committee work with Agentic to develop two to three new logo ideas as potential replacements for the stonefly logo. The Board budgeted an additional \$7,500 for logo development.

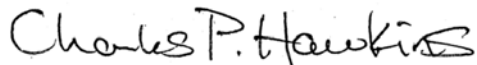
The redesign committee started meeting via web conference with Agentic on 24 January 2017 to kick off work on the logo redesign. Those meetings resulted in selection of two candidate logos, which were submitted to the Board on 11 April 2017. Following Board discussion, the committee asked Agentic to prepare alternative versions of one of the candidate logos. Modified versions of this logo and the 2nd logo were provided to the Board on 26 April 2017, and the Board voted to present one of the modified logos plus the current logo to the membership for their input on 16 May 2017. SFS membership supported a change in logo, but many were not satisfied with the alternative. The redesign committee and the Board are currently working with Agentic to determine what options we have in moving forward with the web site redesign given that we may not yet have identified a logo design that is unique, iconic, and representative of the Society.

Newsletter editor: The Society released the Newsletter editor position announcement on 26 April 2017 both in the SFS Classified section and as a direct link on the web site's home page. As of 15 May, we received three inquiries, two of which resulted in applications. The PubCom will evaluate applications at the Raleigh PubCom meeting and will make a recommendation to the Board shortly thereafter.

Subcommittee reports:

Each of the four subcommittee reports are attached.

Respectfully submitted,

A handwritten signature in black ink that reads "Charles P. Hawkins". The signature is written in a cursive, slightly slanted style.

Charles (Chuck) Hawkins, Publications Committee Chair

ENDOWED PUBLICATION FUND for *FRESHWATER SCIENCE*
JOURNAL ENDOWMENT COMMITTEE

May-December 2016

In May 2016 at the annual meeting of the Society for Freshwater Science in Sacramento, California, Society members approved establishment of the Endowed Publication Fund for *Freshwater Science* (Endowed Fund) and a Journal Endowment Committee (Committee). The Committee consists of 5 voting members (Editor of *Freshwater Science*, Business Manager of *Freshwater Science*, Chair of the Publication Committee, one appointed member from the Board of Directors and one appointed member from the Journal's Editorial Board). The incoming President, Emily Bernhardt appointed Colden Baxter and Alonso Ramirez to the Committee. The Chair of the Committee is Irwin Polls. The Committee is preparing guidelines for the management of the Endowed Fund. We expect that the application process for Journal financial support awards will begin in 2017.

A business investment account for the Endowed Fund was initiated in August 2016 with Morgan Stanley. The initial balance in the Endowed Fund on August 1, 2016 was \$278,447. Society members contributed a total of \$165 to the Endowed Fund during November through December 2016. Income (interest, dividends, and capital gain) from investments in the Endowed Fund during August through December 2016 was \$2,586. The balance in the Endowed Fund on December 31, 2016 was \$276,834.

Irwin Polls
Chair
Journal Endowment Committee
Endowed Publication for *Freshwater Science*

“In The Drift” Newsletter
Deb Finn, editor

In 2016, we published 3 issues of *in the drift*, the SFS newsletter (henceforth “ITD”). ITD is overseen jointly by the Public Information and Publicity (PIP) and Publications Committees, chaired by Becky Bixby and Ayesha Burdett (PIP) and Chuck Hawkins (PubComm). Deb Finn remains the lead editor of ITD, a position she has held since the Columbia, SC meeting in 2007. Deb received a stipend of \$3000 for her work on ITD in 2016. Deb continued to receive support from Patina Mendez (posting content to the SFS website) and Julie Zimmerman (editing some sections), as in past years. Two SFS students – Rachel Voight and David Manning – also contributed to the Fall 2016 issue and plan to continue contributing at least through 2017.

We continued to use the services of Constant Contact (constantcontact.com) to send ITD email announcements to the SFS membership. Although we recognized several drawbacks associated with Constant Contact last year, we still dealt with the same issues in 2015. It seems we are all

too strapped for time to have come around to addressing these problems. I believe we are all hoping that everything will change for the better once SFS migrates to a new web design and server.

A few summary stats on each of the three 2016 ITD issues:

Winter 2016 (Issue 24) was posted in January and had six articles, in addition to the ever-present “FPOM” section listing short bulleted info and relevant links. The email open rate for this issue’s announcement was 48.3%, and the most-clicked article link in the email was Pam’s Journal Notes at a click-through rate of 18% (data provided by Constant Contact).

Spring 2016 (Issue 25) was posted in May, just a few days before the annual meeting in Sacramento began. It had five articles plus the FPOM, including many last-minute meeting announcements. The email open rate for the Spring 2016 issue was 44.1%, with Pam’s Journal Notes again the most-clicked link in the email (27% click-through).

Fall 2016 (Issue 26) came out in late September and included seven articles, including the popular “Meeting Recap”, a highly popular new column called “Dear Nick” (an advice column by Nick Aumen), and an ITD Q&A team-produced by ITD newcomers Rachel Voight and David Manning. The open rate of the email announcement was 47.6%, and the most-clicked link was for the new “Dear Nick” column (48% click-through rate!). Nick has agreed to continue with his advice column for several more issues.

SFS Literature Review Subcommittee, May 2017.

Old Business. The annual SFS bibliography for the year 2014, *Current and Selected Bibliographies on Benthic Biology*, was finalized and posted on the SFS website on 4 May 2016, here: <http://www.freshwater-science.org/Other-Publications/Bibliography.aspx> -- in two formats:
 > PDF (file entitled **SFS_Biblio_2014.pdf**) (1,773kb), and
 > MS Word (file entitled **SFS_Biblio_2014.docx**)(598kb).

New Business.

Annual bibliography for 2015. Compilation of the annual SFS bibliography for the year 2015 (which will also include citations for publications in 2016, at least for some sections) is nearly complete, hopefully to be posted by 25 May and announced via the SFS website.

Several reasons (time constraints, retirements, family matters, ‘resignations’ by compilers for several sections of the annual bibliography, and non-responses from other previous LRC contributors), have delayed completion by and receipt of section contributions from their editors, and thus finalization of the annual bibliography for the year 2015. In mid-2016 (while waiting for delayed contributions) I invited section contributors still active on this committee (especially those who are aggressive bibliographers) to also include citations for publications during 2016; some have, but others have not.

As decided by the SFS Publications Committee [SFS PubComm] when we convened during the annual society meeting in Milwaukee (2015), the annual bibliography for the year 2015 would be the final edition prepared by our committee.

I am not aware of a procedure in the Society by-laws for dissolving or decommissioning committees, so I propose this as an action item for the upcoming SFS PubComm meeting in Raleigh, NC.

Archiving project.

In response to the SFS archiving project for all Society business (MBS, NABS, SFS) initiated by Mike Paul, the BoG, and others 3-4 years ago, I initiated a project specific to the LRC – to archive all annual bibliographic compilations published by the Society.

During last year's SFS PubComm breakfast meeting at our annual SFS meeting in Sacramento, CA (and as summarized in my annual SFS LRC annual report to the PubComm prior to that meeting for inclusion in SFS committee reports to the SFS BoD, dated 21 April 2016), I presented background for and the status of the archiving project for annual bibliographies compiled for the years 1966 through 2002 (not repeated here). After being proposed by Nick Aumen, the PubComm agreed (contingent upon approval by incoming Society president Emily Bernhardt) to provide limited Society funds to me (hourly wages for an assistant) to scan the older annual compilations for uploading to the SFS Bibliography webpage. To date, scans of annual bibliographic compilations for the years 1973, 1974, and 1976 through 2002 have been completed – each with a frontal page created to introduce that annual compilation (with a brief history and links) to those who are new (and continuing) users of these annual bibliographies.

Still missing are scans of the annual bibliographies compiled for the years 1966 through 1972, and 1975. I will prepare a short email blast for whomever does send emails to the Society membership en masse, and also ask Ryan Hill to include it on the SFS home page under one of the two message update columns ('What's New' or 'Benthos News'). Hopefully, this email blast and website posting will be seen by seasoned members, requesting that they look in their files for one or more of the missing annual bibliographies, and consider loaning them to me for scanning, so I can complete this archiving project.

In April 2017, I received excellent guidance from SFS Webmeister Ryan Hill that will allow me to upload the large PDF documents for the scanned annual compilations noted above.

Historical perspective. An historical perspective of the Society's Literature Review Committee was begun in 2015; it will be finalized after 1) the still-missing annual bibliographies have been found and scanned, and 2) all scanned annual bibliographies have been uploaded to the SFS Bibliography webpage. This historical perspective will include the names of section contributors, committee chairs, and their tenure.

After 57 years, the annual bibliography for 2015 (and 2016) will be the last one prepared by the SFS LRC. The first compilation was for the years 1959–1964 (published in 1965); since then, compilations have been prepared and published annually. Many of the Literature Review

Committee members served for 10 or more years, and a few have served for over 30 years (Kevin Cummings, Ben Foote, Don Klemm, Andy Nimmo†, Bill Stark, Stan Szczytko, Don Webb†, Mark Wetzel).

Current SFS Literature Review Committee Members (as of May 2017):

Jason Robinson (Illinois Natural History Survey);
William E. Moser and Fredric R. Govedich (Hirudinida);
Mark J. Wetzel (Clitellatous oligochaetes [microdriles, megadriles, Branchiobdellida], Polychaeta [including the Aeolosomatida], and several misc. Annelida groups);
Bill P. Stark and Boris C. Kondratieff (Plecoptera);
Luke M. Jacobus and Arnold Staniczek (Ephemeroptera);
Jeffrey S. Heilveil (Megaloptera);
Kevin S. Cummings (Mollusca);
Becky Bixby and Paula C. Furey (Periphyton);
Barry N. Brown (General Aquatic Ecology).

Sections *without* contributors: Odonata, aquatic, semi-aquatic Heteroptera, aquatic Coleoptera, Diptera (Ceratopogonidae, Chironomidae, and miscellaneous Diptera), Acarina, methods & techniques, and macroinvertebrate toxicology.

Issues and concerns for discussion during our SFS Publications Committee breakfast

meeting at the annual society meeting in Raleigh (Tuesday, 6 June 2017, 07:00).

1. Email blast and posting on the home page of the SFS website: request from members to loan annual bibliographic compilations for the years 1966 through 1972, and 1975, which have not yet been scanned for uploading (per the bibliography archiving project).
2. Dissolving or decommissioning the SFS Literature Review Committee.

this report submitted 2 May 2017, by Mark J. Wetzel (INHS), chair – SFS Literature Review Committee [mjwetzel@illinois.edu].

FWS EDITOR'S REPORT FOR 2016

Pam Silver, Editor

My goal for 2016 was to participate in a new round of strategic planning with SFS. As far as I know, that process has not yet been initiated. Otherwise, 2016 was a quiet year for the journal. Submissions were slower than usual in 2016, but they have been accelerating rapidly since December 2016. Slower submissions means fewer papers published, and this situation enabled us to close out the backlog in the March 2016 issue. We are now editing in real time again (i.e., <3 months from final acceptance to publication online and in print).

Submissions and acceptance rates

Authors from 27 countries submitted 184 manuscripts in 2016, a decrease of 18% from 2015 (224; Fig. 1). *FWS* received 102 (55%) manuscripts from the US, 10 (5%) from Canada, 30 (16%) from Europe, 11 (8%) from Australia/New Zealand, 17 (9%) from Asia, 3 (1.5%) from Africa, and 8 (4%) from Central and South America (Fig. 2). Eleven submissions were for special series, *BRIDGES*, Perspectives, or *FastTracked* (cf. 21 of 224 submissions in 2015; Fig. 2). The sequential years of declining submissions appear to be related to a reduction in submissions for special issues (Fig. 1), but they also could be related to the low impact factor and high turn-around times during 2014 and 2015. A likely explanation is simply that the journal has not yet reached a new stable state.

Sixty-four manuscripts submitted in 2016 have been accepted, 118 have been rejected (19 without review and 48 with resubmission invited), and 2 decisions are outstanding at the time of this report. The acceptance rate of ~36% (64/184) is markedly lower than in 2015 (45%). We have noticed more out-of-journal-scope submissions since the title change, and this trend might partly explain the increased rejection rate. The long-term average (1986–2016) acceptance rate is ~50% (Fig. 3). I intend to maintain a rejection rate of 40–45% as a way to ensure the overall quality of papers published in the journal.

Average manuscript turn-around times were: 1) median time from submission to initial decision (days in review) = 65 d (similar to 62 in 2015), 2) mean time from submission to final decision (includes revision time) = 215 d (up from 213); 3) mean time from final decision to online publication = 114 d (down from 152) (Fig. 4). Mean total time from submission to online publication is 330 and is expected to decrease because we no longer have any backlogged papers and because “reject, invite resubmission” decisions are now handled as rejections rather than revisions in Editorial Manager.

Published papers

FWS published 1379 pages (Fig. 4) and 115 citable articles (Fig. 5) in Volume 35. The long-term average number of articles per volume is 65, and the long-term average number of pages per volume is 827. The percentage of articles published by authors from outside of North America (31%) in 2016 was lower than the percentage in 2015 (40%) (Fig. 6). The percentage of articles with European, Australian/New Zealander, or South American authors decreased, whereas the percentage of articles with first authors from Asia and Africa increased.

One special series was published in 2016: 1) Third Symposium on Urban Streams, organized by Allison Roy et al. (*FWS* 35/1). One *BRIDGES* cluster was published in 2016: Global perspectives on the urban stream syndrome.

Impact factor

The 2015 (the last year for which data are available) Thompson ISI 2-y impact factor (IF) for *FWS* was 2.433 (18th/104 marine and freshwater biology [MFB] journals) (Table 1). *FWS* does not yet have a 5-y impact factor. The number of citations was 597, and the immediacy index was 1.302. *FWS* eigenfactor was 0.00412, and the article influence score was 0.874. The journal's IF metrics appear to have recovered from the title change (Fig. 6A, B).

Editorial Board

Several changes were made to the *FWS* Editorial Board in 2015 (Appendix 1). Steve Rier rotated off the board. His contributions to the journal are very much appreciated. Scott Larned is on sabbatical leave. We welcome 2 new members: Amy Burgin and Hamish Greig. We are certain they will find working on the journal satisfying and intellectually challenging.

Eva Silverfine Ott worked with the editorial team until the backlog was fully resolved. She is now in reserve should we need her services in the future.

The future

Very few journals in our area remain society published and not-for-profit. We have an excellent publishing partner in the University of Chicago Press, and I look forward to working with them and SFS to continue to improve the journal. Discussions with the University of Chicago Press will soon be under way preparatory to our pending 2018 contract renewal. It was a pleasure to serve the journal in 2016, and I am looking forward to another challenging and satisfying year.

Pamela Silver, Editor

Table 1. Thompson Scientific Journal Citation Reports for *J-NABS* and *FWS* from 2001 to 2015 (the last year for which data are available). The Impact Factor (IF) is a measure of the frequency with which an average article in a journal is cited. It is calculated as the ratio of cites in the current year (e.g., 2012) to the number of articles published in the journal in the two previous years (2010 and 2011) and citable articles published in the journal in those 2 y. The Immediacy Index is a measure of how quickly an average article in a journal is cited, and is calculated as the ratio of current year (e.g., 2012) cites to articles published in the journal in the current year (2012). Cited half-life is the number of years, going back from the current year (e.g., 2012), that accounts for 50% of the total cites to a journal in the current year (2012). The journal is ranked relative to other journals in Marine and Freshwater Biology (Rank A) and in Ecology (Rank E). The first number is the rank; the second is the number of journals included in the comparison. For information related to the interpretation of impact factors, see <http://scientific.thomson.com/free/essays/journalcitationreports/impactfactor/>.

Year	Impact factor				Immediacy index			Total cites			JIF percentile (2 y)	
	2-y value	5-y value	2-y Rank A	2-y Rank E	Value	Rank A	Rank E	Value	Rank A	Rank E	A	E
2001	1.484											
2002	2.077			31/101								69.307
2003	2.366		4/74	22/105	0.091	53/74	78/105	1956	23/74	37/105	94.595	79.048
2004	1.792		15/75	37/107	0.220	32/75	54/107	1982	34/74	38/105	80.000	65.421
2005	1.583		22/77	47/112	0.797	3/77	12/112	2156	25/77	40/112	71.429	58.036
2006	2.219		11/77	40/114	1.538	1/77	4/114	2971	25/77	34/114	85.714	64.912
2007	2.217	2.738	16/85	42/116	0.226	49/85	71/116	2742	25/85	44/116	81.176	63.793
2008	2.36	3.023	14/87	44/124	1.669	1/87	4/124	3135	24/87	43/124	83.908	64.516
2009	2.133	3.113	16/88	53/129	0.819	8/88	21/129	3231	25/88	48/129	81.818	58.915
2010	2.974	3.920	10/93	40/130	1.941	2/93	5/130	4452	18/93	38/140	89.247	69.231
2011	2.8	3.251	10/97	46/134	0.647	18/97	40/134	3920	23/97	48/134	89.690	65.672
2012	2.957	3.121	9/100	39/136	0.784 ^a	10/100 ^a	3/136 ^a	4093	24/100	53/136	91.000	71.324
2013 JNABS	2.706	3.904	14/104	46/141	na	na	na	4267			86.538	67.376
2013 FWS	1.423	na	52/103	94/141	0.467	27/103	67/141	187	96/103	135/141	50.485	33.688
2014	1.941	1.946	33/103	68/145	1.082	4/103	16/145	513	79/103	121/145	68.447	53.448
2015	2.433	2.516	18/104	55/150	1.302			957			83.173	63.667
^a Calculated for FWS because J-NABS was not published in 2012												

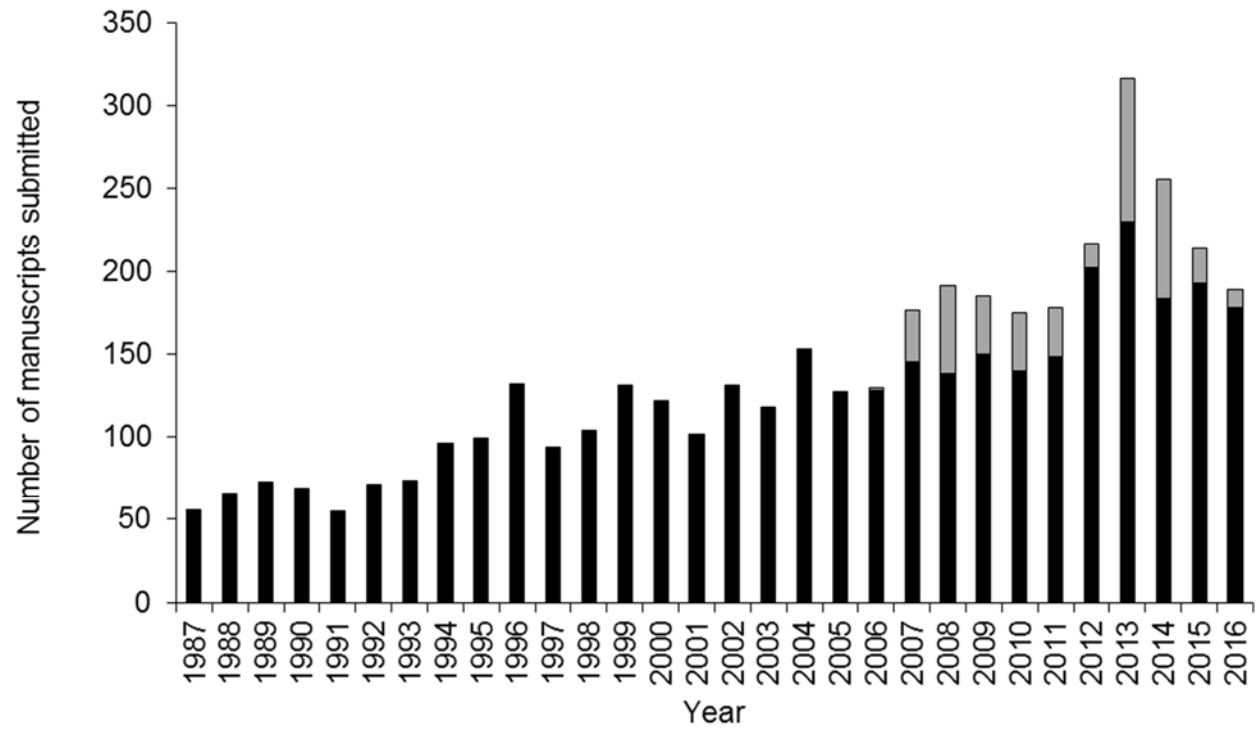


Fig. 1. Number of manuscripts submitted annually to *J-NABS/FWS*. Gray bars show papers part of special series. Data for 1986 were not available.

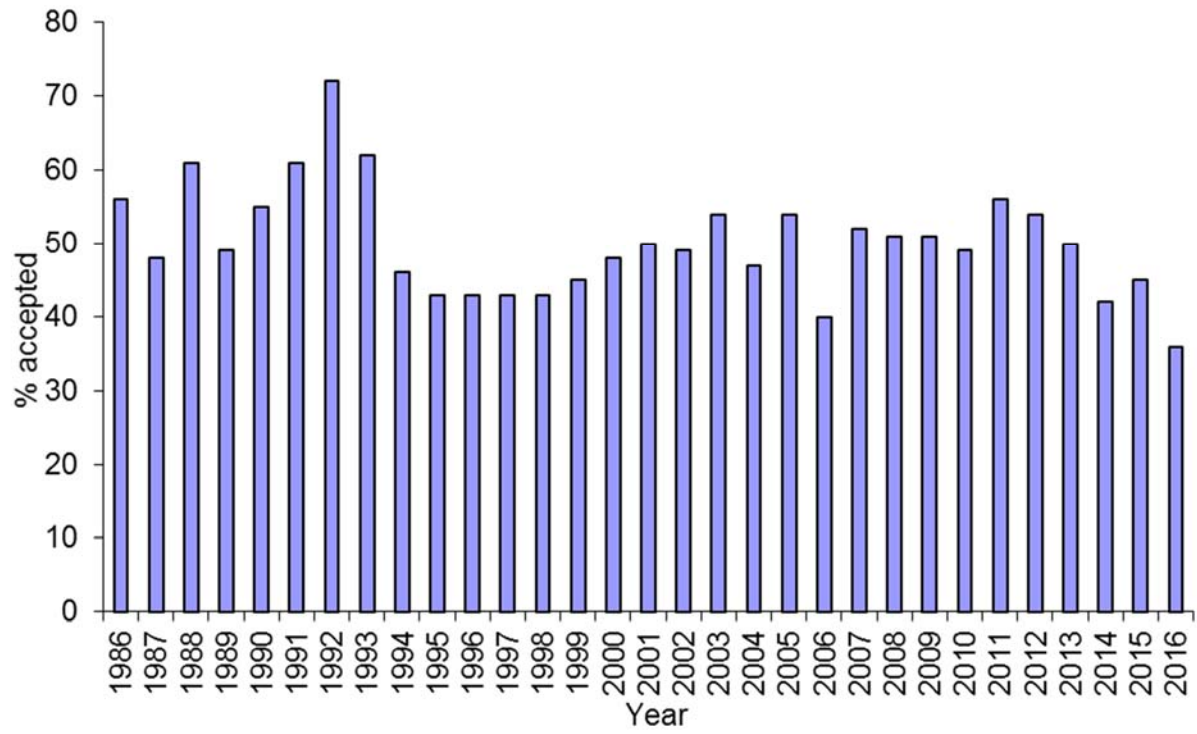


Fig. 2. Percentage of manuscripts submitted to *J-NABS/FWS* that was accepted for publication.

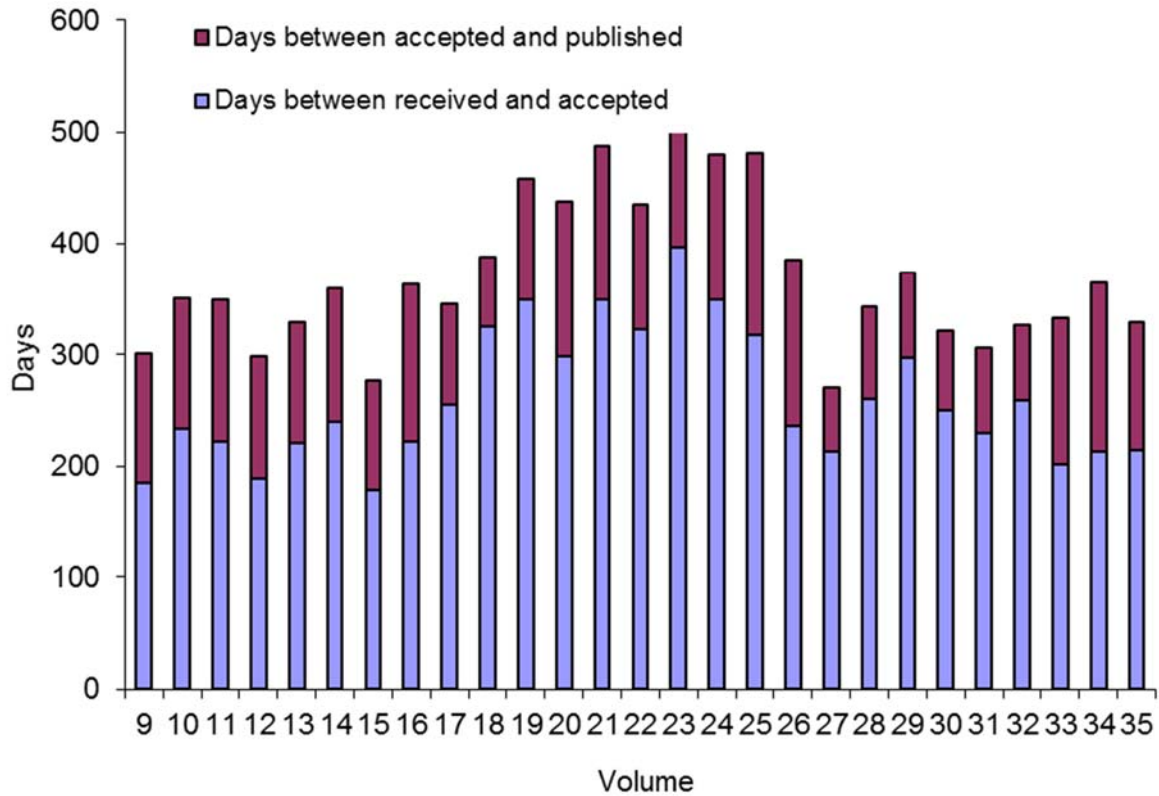


Fig. 3. Manuscript turn-around time for articles published in *J-NABS/FWS*. Data were not available for volumes 5 through 8. Early online publication began with issue 26/4. Data for volumes 9–26 are based on date of print publication. Data for volumes 27–35 are based on date of online publication.

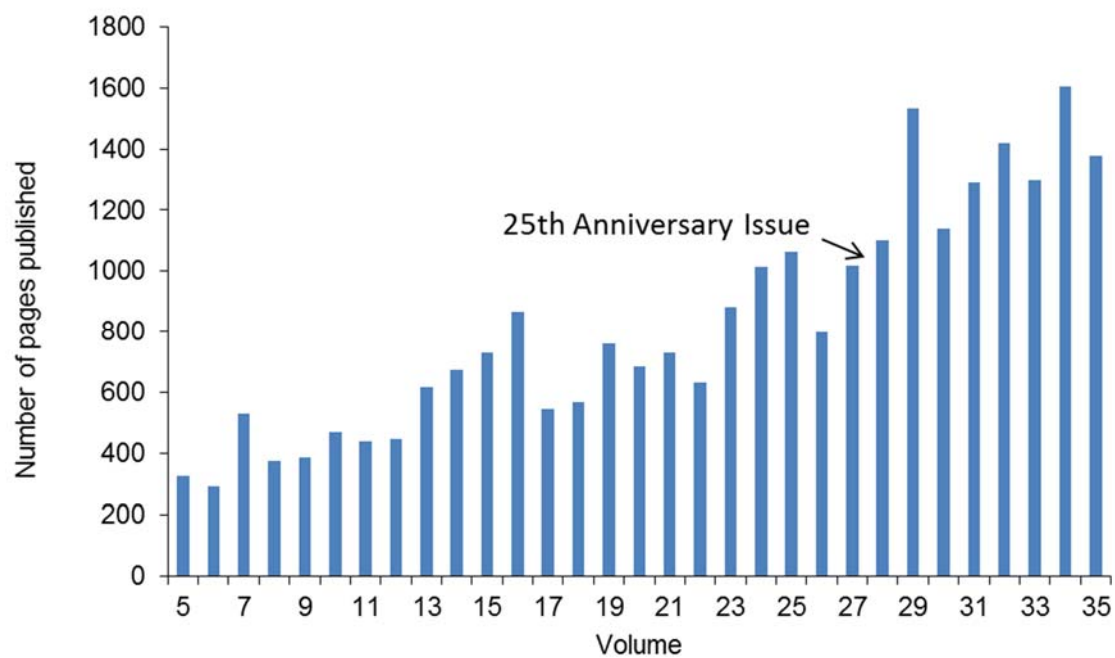


Fig. 4. Number of pages published in each volume of *J-NABS/FWS*.

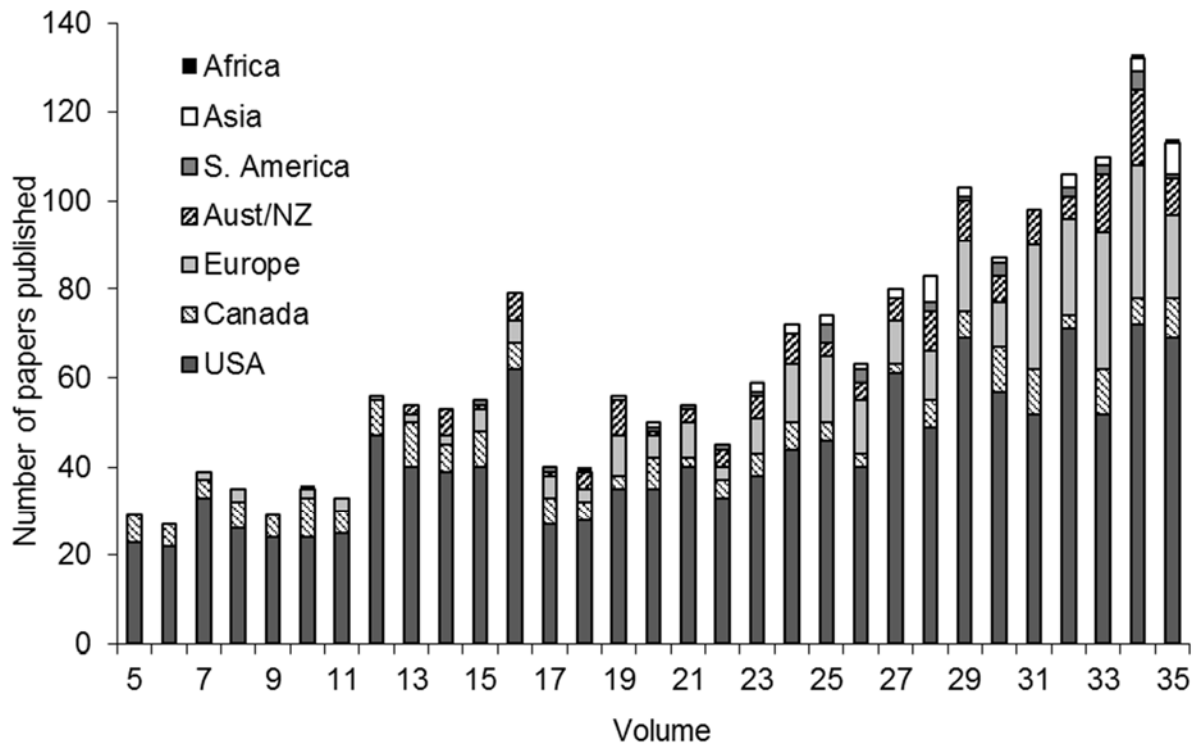
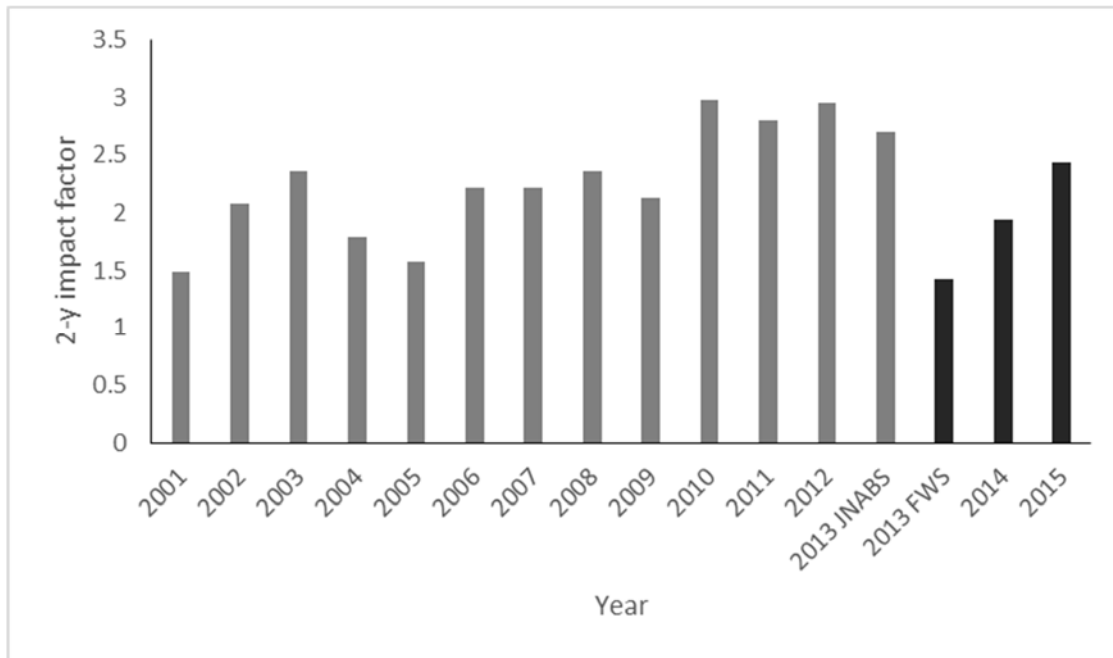


Fig. 5. Number of papers published per volume of *J-NABS/FWS* and the distribution of geographic origins of those papers.

A



B

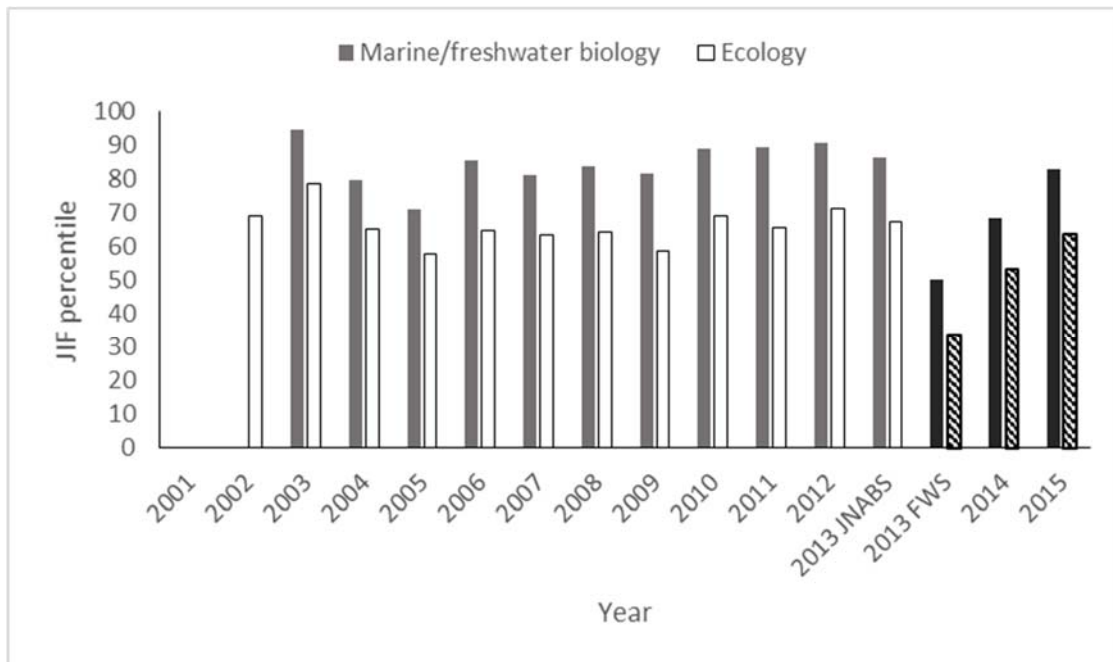


Fig. 6. A.—*J-NABS* (gray) and *FWS* (black) 2-y impact factors from 2001 to present. B.—Thomson Reuters Journal Impact Factor (JIF) percentiles for *J-NABS* (white and gray) and *FWS* (black and pattern) 2-y impact factors in the categories of Marine and Freshwater Biology and Ecology..

Appendix 1. Editorial Board

Editor

Pamela Silver, Penn State Erie, Erie, Pennsylvania, USA

Business Manager

Irwin Polls, Glenview, Illinois, USA

Editorial Assistant

Sheila J. Storms, Warren, Ohio, USA

Associate Editors

Daniel Allen, Arizona State University, Mesa Polytechnic Campus, Mesa, Arizona, USA

Carla L. Atkinson, University of Alabama, Tuscaloosa, Alabama, USA

Nicholas G. Aumen, United States Geological Survey, Davie, Florida, USA

Michelle A. Baker, Utah State University, Logan, Utah, USA

Robert L. Baker, McMaster University, Hamilton, Ontario, Canada

Bryan L. Brown, Virginia Tech, Blacksburg, Virginia, USA

Amy J. Burgin, University of Kansas, Lawrence, Kansas, USA

Daren M. Carlisle, United States Geological Survey, Reston, Virginia, USA

Eric Chauvet, Université Paul Sabatier, Toulouse, France

Bruce C. Chessman, University of New South Wales, Sydney, New South Wales, Australia

William H. Clements, Colorado State University, Fort Collins, Colorado, USA

Kevin J. Collier, University of Waikato, Hamilton, Waikato, New Zealand

Thibault Datry, Irstea, Lyon, France

Russell G. Death, Massey University, Palmerston North, Manawatu-Wanganui, New Zealand

Steven N. Francoeur, Eastern Michigan University, Ypsilanti, Michigan, USA

Leopold Füreder, University of Innsbruck, Innsbruck, Austria

Jürgen Geist, Technische Universität München, München, Germany

Keith B. Gido, Kansas State University, Manhattan, Kansas, USA

Manuel A. S. Graça, Universidade de Coimbra, Coimbra, Portugal

Hamish S. Greig, University of Maine, Orono, Maine, USA

Robert O. Hall, Jr., University of Wyoming, Laramie, Wyoming, USA

Brian Helms, Auburn University, Auburn, Alabama, USA

Jane M. Hughes, Griffith University, Nathan, Queensland, Australia

Steven Kohler, Western Michigan University, Kalamazoo, Michigan, USA

Antonia Liess, Umeå University, Umeå, Sweden

Kelly O. Maloney, United States Geological Survey, Wellsboro, Pennsylvania, USA

Amy M. Marcarelli, Michigan Technological University, Houghton, Michigan, USA

Melissa R. Martin, U.S. Department of Agriculture, Natural Resources Conservation Service, Washington, DC, USA

Christoph Matthaei, University of Otago, Dunedin, New Zealand

Brendan G. McKie, Swedish University of Agricultural Sciences, Uppsala, Sweden

Heikki Mykrä, University of Oulu, Oulu, Finland

Teresa J. Newton, United States Geological Survey, La Crosse, Wisconsin, USA

Geoffrey C. Poole, Montana State University, Bozeman, Montana, USA

Alonso Ramírez, University of Puerto Rico, San Juan, Puerto Rico, USA
Atilano Contreras-Ramos, Universidad Nacional Autónoma de México, Mexico City, Mexico
Christopher T. Robinson, Swiss Federal Institute of Environmental Science and Technology,
Dübendorf, Switzerland
J. Thad Scott, Baylor University, Waco, Texas, USA
Garry Scrimgeour, Environment and Parks, Edmonton, Alberta, Canada
Nathan J. Smucker, United States Environmental Protection Agency, Cincinnati, Ohio, USA
Alicia Slater, Stetson University, DeLand, Florida, USA
Bernard W. Sweeney, Stroud Water Research Center, Avondale, Pennsylvania, USA
Brad W. Taylor, Dartmouth College, Hanover, New Hampshire, USA
Yvonne M. Vadeboncoeur, Wright State University, Dayton, Ohio, USA
Michael J. Vanni, Miami University of Ohio, Oxford, Ohio, USA
James R. Vonesh, Virginia Commonwealth University, Richmond, Virginia, USA
Matt R. Whiles, Southern Illinois University, Carbondale, Illinois, USA
Lester Yuan, United States Environmental Protection Agency, Washington, DC, USA
David T. Zanatta, Central Michigan University, Mount Pleasant, Michigan, USA

Bridges Editors

Sally Entrekin, University of Central Arkansas, Conway, Arkansas, USA
Allison Roy, United States Geological Survey, Amherst, Massachusetts, USA

Public Information and Publicity Committee Annual Report 2017

Committee Membership:

Becky Bixby - Chair (2016)
Ayesha Burdett (co-chair)- Outreach publications
Debra Finn - Newsletter Editor - PC Rep.
Troy Keller - SPC Liaison
Carri LeRoy - EDC Liaison
Ryan Hill (web editor)
Sherri Johnson
Julie Zimmerman - Newsletter Contributor
Eric Moody - SFS Podcasts
Alex Yeung - SRC rep
Jenny Paul - SRC rep
Timothy Cline - SFS podcasts
Jennifer Follstad Shah - Benthos News Editor

1. PIP members continue to support SFS Web Editor by providing content for website. This year, the PIP co-chairs have been particularly busy preparing for the website redesign in collaboration Chuck Hawkins from the Publication Committee, current web editor Ryan Hill and former web editor Tina Mendez. An RFP to find an appropriate web design company was distributed and Agentic was chosen to redesign the SFS logo and renovate the website. A full report on the website activity is included in the Web Editor annual report.
2. We added two new members: Erin Larson (Cornell University), an editor on the “Making Waves” podcast; and Katherine O’Reilly (University of Notre Dame), who is part of the Student Resource Committee.
3. We developed a new document to outline social media strategy and use. This document was developed by Jo Latimore, Erin Henderson, and the PIP co-chairs (Bixby and Burdett). The document was distributed to the Board of Directors for comment. The revised document will be added to the operations manual.
4. Publications:
 - a. We published three newsletters (“In the Drift”) (Issues 25, 26 and 27).
 - b. The SFS informational posters and brochures have been updated by PIP to be more streamlined and more date-generic (i.e., no annual meeting information). The final editing is completed and the brochures have been approved by the BOD. Alex Yeung prepared a version of the brochure in Mandarin. The brochures are now available online.
5. Website:
 - a. From April 2016 to March 2017, we posted 5 items in Benthos News. This includes one BRIDGES articles, two articles highlighting SFS members and their publications, one meeting reminder, and one post about the annual bibliography

update. All Benthos News items have been shared with Adrienne Sponberg (sponberg@aslo.org), who posts news items for the Aquatic Sciences Network (www.aquaticsci.net). The number of Benthos News items has declined in the past year while the website was under review. The website redesign committee will be discussing whether to continue Benthos News and, if so, the best way for it to be incorporated into the website.

- b. Student Resource Committee representatives to PIP (“social media managers”, Alex Yeung and Hal Halvorson) continued their weekly blog (“Stay Fresh”) that provides updates of bibliographic links to early view articles in freshwater sciences from eighteen different journals (freshwatersci.wordpress.com). Additionally, three more SRC members joined the effort in summer 2016 (Katherine O'Reilly, Justin Pomeranz, and Allyn Dodd). As of April 2017, there are more than 130 subscribers from throughout the world (predominantly USA). Between April 2016 - April 2017, 50 posts were published and there were 5,976 views from 2,594 visitors, giving an average of 2.28 views per visitor.

6. Social media:

- a. We posted 683 freshwater science and graduate student/early career researcher focused tweets on the SFS SRC twitter account (@sfs_src) from April 2016 to March 2017. We have currently have 880 followers; over the past year, we have gained on average 61 followers per month. Twitter users saw and/or interacted with our posts >200,000 times and @sfs_src had 10,918 profile visits over the past year.
- b. We posted 139 freshwater science-focused tweets on our SFS twitter account (@BenthosNews) from April 2016-March 2017. As of April 17, 2017, we had 2,929 followers; we gained 2-3 new followers per day. We note that while many of these followers are SFS members, a large proportion of those who follow and interact with @BenthosNews are not SFS members, but include members of other scientific organizations and the general public. ~1/2 of our audience is in the United States; users in the United Kingdom, Canada, Australia, Spain, and Ireland make up an additional 1/3 of our audience. Twitter users saw and/or interacted with our posts >160,000 times and @BenthosNews had >11,000 profile visits over the past year. We are currently revising guidelines for posting on behalf of SFS and look forward to increasing the capacity of our society to share news and policy statements with our members as well as the broader public. We welcome anyone who would like to help us maintain/increase our engagement with our twitter users to contact us about contributing to our @BenthosNews account.
- c. We have also been very active on Facebook and currently have 2605 people who have “liked” the SFS Facebook page (up nearly 500 members compared to last year). PIP has posted 5 posts on the FB page with an average of 7.1 posts/month (April 2016-March 2017).
- d. We have 95 subscribers to our YouTube channel (@NABSbenthos) up from 76 subscribers last year) and have had 2,007 views this year (and 10,286 views since 2010). The YouTube channel content include older SFS Award of Excellence and Hynes Award lectures and Making Waves podcasts. We have difficulty securing funding to record more recent award talks at the annual meetings.

- e. The SFS podcast, Making Waves, continues to be successful in its fourth year with 22 podcasts produced. Five podcasts were released in 2016 and two in 2017. The goal is to produce six podcasts per year. A new editor joined the podcast team: Erin Larson from Cornell University. We continue to search for new ways to improve the visibility and accessibility of podcasts (e.g. iTunes). The podcasts are shared on the SFS website and linked to the SFS YouTube channel; an email is sent to members with a link to the new podcast. There have been 5349 views (mean 243 views) for all podcasts combined on YouTube, top podcast: 863views, Episode 3, “Value of Biodiversity,” Brad Cardinale.

Goals for 2017-2018 include:

1. Assist the SFS Web Editor in updating and transitioning the SFS website to new site including:
 - a. updating the homepage and re-thinking navigation of the website, following feedback from surveys to members and committees;
 - b. Integrating social media into the website;
 - c. creating internal pages for the Science and Policy Committee that includes a mission statement, brief history, etc.;
 - d. creating a public page with a list of policy statements adopted by the society, with links to the each policy statement;
 - e. updating education and outreach pages, including an update of the image and slide libraries as well as an improved user interface;
 - f. completing the integration of archived information on SFS award recipients from old bulletins to award page;
 - g. working with web editor to post backlogged projects (e.g., archived award descriptions, brochures, image library).
 2. Publish 3 newsletters.
 3. In past years, the goal has been to publish new Benthos News items at least monthly, with an effort to highlight member research as much as we can through Freshwater Science features or other high profile journal publications. The role of Benthos News will be reviewed as the website is updated.
 4. Post new Making Waves bimonthly (6 podcasts/year). As the website is being updated, we will explore the logistics to get the podcast onto iTunes using the new web platform.
 5. Post new content to Facebook, You Tube and Twitter as appropriate, which will include posting the SFS awards lectures online. The new social media guidelines from PIP aim to tweet 3 tweets/week if possible.
 6. PIP requested funds for professional video of plenary talks at this year’s meeting, although the availability has not been confirmed yet.
-

Constitutional Revisions Committee

Committee membership:

Jeff Muehlbauer (Chair, 2017)

Fred Benfield, (2018)

Sarah Roley (2017)

No Changes in the SFS Constitution were proposed in 2017 but several changes in the By-laws have been proposed to the Board of Directors. The theme of these proposed changes was to streamline the Bylaws language with respect to standing committee structure, organization, and assembly; Muehlbauer made most of the revisions with guidance from SFS President Emily Bernhardt and Vice President Steve Thomas. These changes await approval by the BoD, after which they will be put to the membership for a vote according to the amendment process set forth in the SFS Constitution. The Constitution and Bylaws document was also amended to incorporate all revisions from the past several years, some of which were approved at prior years' meetings but which never were incorporated into the official document.

SFS Student Resources Committee (SRC) Annual Report: 2016-2017

Jessica Fulgoni and Darrin Hunt (Co-Chairs) & Joanna Blaszcak (Board of Directors Representative)
May 31, 17

Summary of SRC Activities from the 2016 SFS Annual Meeting in Sacramento, California

In 2016, the Society for Freshwater Science held its annual meeting in Sacramento, California. The Student Resources Committee (SRC) held our eight regular activities including the: 1) SRC workshop; 2) Student-mentor mixer; 3) Live auction; 4) Silent book auction; 5) Merchandise sales; 6) SRC business lunch meeting; 7) Undergraduate travel awards; and 8) Undergraduate presentation award.

Financial information

During the 2016 annual meeting, we encumbered expenses related to undergraduate travel awards (\$2400) and the Student-Mentor mixer (\$1000). The total income from SRC events from the 2016 SFS meeting was \$8,903.00, while the total expenses were \$7,226.89. Therefore, after our meeting, the SRC subaccount has \$19,078.69 for 2017. We did not gain as much income as previous years due to the high cost of the workshop.

SRC Workshop

With support from the Student Resources Committee (SRC) and the SFS Presidential Funds, SFS is hosted its first Science Communication workshop at the 2016 meeting. The workshop operated slightly out of the normal workshop organization, and was a collaboration between the SRC and Early Career members. Engage Science (<http://www.engage-science.com/>) ran half the day of the workshop to teach young scientists how to better communicate their research to the general public. A total of 17 attendees participated in the workshop; however, we lost \$2,363.33 on the workshop. The participant cost was \$20 for students, \$30 for early career members, and \$40 for regular members. The cost might have lowered participation in this workshop.

Student-Mentor Mixer

Over 260 graduate and undergraduate students registered for the 2016 Mentor-Mixer and there were numerous additional attendees who did not register for the Mixer. In addition, over 122 mentors from academia, industry, and government all graciously attended the event. The student mentor mixer committee would like to thank everyone who helped to make the event a success! The SRC paid for \$1,000 of the costs, while the endowment covered the rest of the costs.

Live Auction

Local and national donors provided an extensive spread of items for the Live Auction for the 2016 annual meeting in Sacramento. The event was divided into two portions, the item portion, where attendees had the opportunity to bid on donated goods, and the karaoke portion, where audience members could contribute to get certain SFS members to sing. Karaoke funds were designated for the SFS endowment fund.

In 2016, we also introduced a “connections sweepstakes” which allowed winners to spend two hours of time with a selected SFS member. Past and present SFS leadership and esteemed scientists such as Drs. David Strayer, Emily Bernhardt, Emma Rossi-Marshall, and Colden Baxter volunteered their time for the sweepstakes. Dr. Strayer was invited to a speaker series called Water at Wayne at Wayne State University. Dr. Baxter presented at Colorado State University for Dr. Kurt Fausch’s retirement celebration. Dr. Rossi-Marshall met via Sype with students at Texas Tech and discussed career development and research life at the Cary Institute. Details from Dr. Bernhardt “connection” have not been received yet.

Silent Book Auction

We had books donated for the silent auction from publishers, SFS members, and anonymous donors. We collected \$2,749.00 in profits from the silent auction last year and appreciate all of the support society members give to the SRC. Beginning in 2015, all silent auction proceeds will be used to support undergraduate travel awards.

Merchandise Sales

Merchandise sales at the Sacramento, California annual meeting in 2016 raised a net profit of \$1,517.46 for the SRC. These profits will be used to help fund a portion of the 2017 Student-Mentor Mixer (shared with the society).

SRC Business Lunch Meeting

A total of 103 graduate and undergraduate students attended our lunch meeting. We voted to have Co-Chairs for the 2017 meeting and also to start an Education and Diversity sub-committee. More information about the elected SRC officer and delegates can be found on page 5.

Undergraduate Travel Awards

A total of 7 undergraduates submitted applications for the award. For the 2016 meeting, 4 of the 7 applicants were given awards (\$600 each). Following are the recipients of those awards and their academic institutions: Following are the recipients of those awards and their academic institutions: Arianna Nuri (UC Berkeley), Emily Wolfe (Evergreen State), Taylor Michael (Kent State), and Jordan Stepro (University of Wisconsin – Parkside). The recipients were informed of the award and were instructed to pick up the money (check) from Mike Swift during the Endowment Awards Banquet held at the meeting.

Undergraduate Presentation Award

Graduate student members of the SRC judged 43 (39 posters and 4 orals) undergraduate presentations at the 2016 meeting in Sacramento. *Best Oral or Poster Presentation by an Undergraduate Student* went to Emily Wolfe (Evergreen State College) for the poster entitled, “Stream Community Assembly following the Catastrophic Eruption of Mount St. Helens, WA, USA”

Summary of SRC Activities for the 2017 SFS Annual Meeting in Raleigh, NC

Public Information & Policy/Social Media

During the past year, the social media managers have continued efforts to promote the Society's news, and share research findings in freshwater sciences. This has been achieved by actively using [Facebook](#) and [Twitter](#) to reach the student community. Furthermore, the "Stay Fresh!" blog, which was launched in March 2015, has continued to provide weekly updates of bibliographic links to early view articles in freshwater sciences. The blog (freshwatersci.wordpress.com) features a selection of journals preferred by respondents in an online survey. The provision of updates of the latest literature through this channel benefits graduate students, and the wider academic community, for their scholarly activities. An accompanying spreadsheet version is also available online for users to bookmark and check the latest updates (goo.gl/yaXDBT). We think that all of these initiatives will increase student participation at the upcoming annual meeting.

SRC Workshop

The Student Resource Committee is joining forces with the City of Raleigh and Stormwater Volunteers to do a stream clean-up at the 2017 meeting. It will take place before the start of the meeting on June 4th. The stream clean-up will take place from 11:30 AM to 4:00 PM on June 4th. This workshop is free and snacks and bug spray will be provided. While the workshop is already full, we are allowing additional students to participate if they are interested.

Student-Mentor Mixer

The SFS-SRC student-mentor mixer will be held Monday, June 5th from 5:15 to 7:00 PM. The 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-doctoral researchers; 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. Currently, 304 students and 95 mentors have registered for the mixer. While this is a high number of students the number of mentors is down from last year.

Live Auction

The live auction will be held on Monday, June 5th from 7:30 to 10:30 PM. The auction relies on unique and creative donations from SFS members. Donations can be anything from artwork to pottery to beer-themed bird feeders (see [In the Drift newsletter](#)). All of the funds raised from the live auction go to the SFS endowment awards, which supports SFS student research and travel awards. We look forward to being entertained by our auctioneer Nick Aumen.

Silent Book Auction

The Silent Book auction will be held throughout the upcoming conference. The committee accepts book donations for the Silent Book Auction leading up to the event. Consider donating a newly published book written by your favorite scientist, a regional aquatic book, or a classic freshwater science text. For contributions, please contact us via email or bring the book by the

Silent Book Auction table the first day of the conference. Information and donation contact: Martha Dee (mdee@nd.edu). And don't forget to bid on books during the conference to support the endowment awards!

Merchandise Sales

This year we will be selling SFS 2017 logo t-shirts (\$16), long sleeve shirts (\$22), Klean Kanteen steel cups (\$12), Koozies (\$5.50), and stickers (\$4). Pre-order your merchandise during registration and pick up your item(s) onsite at the SRC merchandise table for best availability. Items will also be available to purchase during the meeting. Currently, 165 merchandise items have been pre-ordered during registration.

SRC Business Lunch Meeting

Our lunch meeting is scheduled for Monday, June 5th from 12:30-2:00 PM. We will provide box lunches to those that have registered. Currently, 76 students have registered to attend this lunch meeting.

Undergraduate Travel Awards

A total of 8 undergraduates submitted applications for the award, which is a low number of applicants for this award. This might be in part due to abstracts being due at a much later date than the award applications. We advertised the award using our [SRC Facebook page](#), ECOLOG, and e-mail SRC members. From 2015 forward, the SRC will grant up to \$600 travel awards as possible from the silent book auction proceeds. For the 2017 meeting only 5 of the 8 applicants were given awards. Following are the recipients of those awards and their academic institutions: Steven Bittner (University of Massachusetts – Amherst), Anna Vincent (Loyola University – Chicago), Alyssa Kullberg (Colby College), Stephen Plont (Michigan State University), and Laura Naslund (Duke University). The recipients were informed of the award and were instructed to pick up the money (check) from Mike Swift during the Endowment Awards Banquet held at the upcoming meeting.

Undergraduate Presentation Award

Thanks to an anonymous donor, the SFS SRC has granted an annual award to an undergraduate for best presentation since the 2012 meeting in Louisville, KY. The same anonymous donor will once again sponsor the award at the 2017 annual meeting in Raleigh. As a result of ongoing initiatives to support undergraduate research, the SFS Executive Committee voted to make this a permanent award that will be financially supported by the society.

SRC Officers and Delegates: 2016-2017

The students that attended the 2016 SRC Business Lunch Meeting at the annual meeting in Sacramento elected the following officers. The delegates listed were the remaining student members that attended the meeting.

Co-Chairs: Jessica Fulgoni and Darrin Hunt

Board of Directors Representative: Joanna Blaszcak

Silent Book Auction: Martha Dee (chair), Allyn Dodd, Brain Kim, and Matt Trentman

SRC Workshop: Lauren Koenig (Chair), Kait Farrel, and Andrea Fitzgibbon

Student-Mentor Mixer: Andrew Sanders (chair), Therese Frauendorf, Jared Balik, Natalie Levesque, Courtney Larson, and Anna Harrison

Merchandise: Shannon Speir (chair), Julie Kelso, Martha Dee, and Raissa Mendonca

Live Auction: Brittany Hanrahan (chair), Megan Fork, Andrea Fitzgibbon, Matthew Fuller, Sophie Higgs, and Brenainn Turner

Undergraduate Travel Awards: Sophia Bonjour (Chair) Hilary Madinger, Kelley Fritz, and Bronwen Stanford

Public Information & Policy Representatives/Social Media Managers: Natasha Wingerter (Chair), Allyn Dodd, Daniela Cortez, Kathrine O’Rielly, Justin Pomeranz, and Brain Kim

Education and Diversity: Andrew Sanders (Chair), Brittanie Dabney, Brain Kim, Arial Shogren, Elizabeth Ogata, and Anna Boegehold

Local Arrangements: Megan Fork

SRC Advisor: Dr. Jennifer Tank

Delegates (total of 67):

First Name	Last Name	First Name	Last Name	First Name	Last Name
Karim	Alame	Jon	Hollis	Jenae	Olson
Emily	Argo	Ruth	Hoover	Stephen	Plont
Karen	Baumann	James	Junker	Hannah	Reidl
					Reyes
Alicia	Beattie	Samantha	Keyport	Roberto	Maldonado
Whitney	Beck	Dustin	Kincaid	Keysa	Rosas
Catherine	Bentsen	Christopher	Kotalik	Matthew	Ross
	Bouma-				
Keith	Gregson	Petra	Kranzfelder	Madeline	Rubenson
Jacey	Brooks	Joe	Lee-Cullin	Sydney	Ruhala
Ana	Chara Serna	Allison	Lutz	Natalie	Ruiz Castillo
Sarah	Clark	Nicholas	Macias	Josian	Sánchez Ruiz
V. Byron	Collins	Hilary	Madinger	Logan	Shoup
Lee	Demi	Bryan	Maitland	Jordan	Stepro
Tessa	Durnin	Kate	Mathers	PJ	Torres
Vanessa	E Souza Reis	Jane	Mazack	Hiromi	Uno
Maitane	Erdozain	Scotty	McLeory	Richard	Walker
Paige	Filice	Taylor	Michael	Dana	Warren
Madeline	Genco	Kazuki	Miura	Amie	West
			Muniz		
Brian	Gill	Adamaris	Tirado	James	White
Halvor	Halvorson	Izak	Neziri	Brian	Wolff
Phil	Harrison	Jaynell	Nicholson	Allyson	Yarra
Bianca	Hernandez	Arianna	Nuri	Rebecca	Zawalski
Guido	Herrera	Corrie	Nyquist	Sanja	Zlatanovic
Angela	Holland				

Taxonomic Certification Committee report 2017

Committee membership:

Bern Sweeney, Co-Chair

John Morse, co-chair

Jim Glover

Gary Lester

Scott Miller

Richard Mitchell

Barry Poulton

James (Sam) Stribling

Stephanie Strachan

Mark Wetzel

David Walters

See below.

SFS Taxonomic Certification Program

Annual Report for 2016



Dr. Murray Colbo imaging the Chironomidae Test for the SFSTCP at Acadia University- 2016

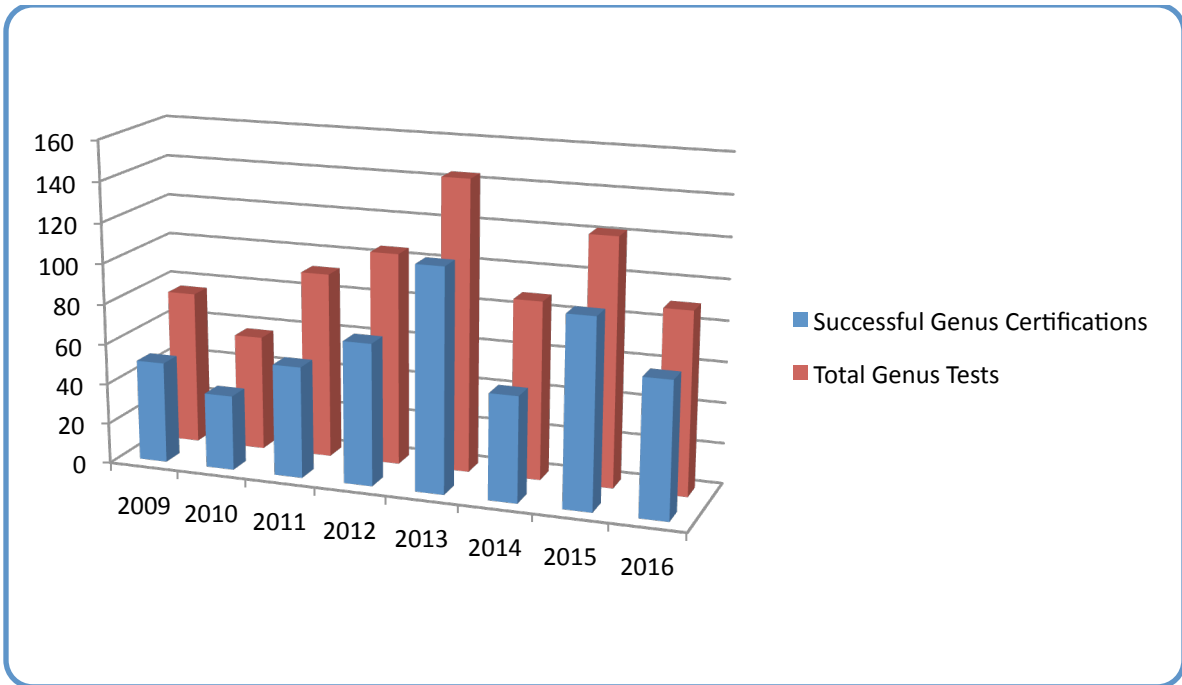
The Society for Freshwater Science Taxonomic Certification Program was established in 2005 to test the taxonomic skills of people involved in benthic macroinvertebrate studies in North America. The certification program is seen by the USEPA and Environment & Climate Change Canada as a valuable indication of taxonomic ability. The accurate and precise identification and classification of organisms provides the foundation for biological investigations of the ecology of our freshwater systems, as well as biomonitoring programs aimed at evaluating the environmental health of these systems. Accurate identifications of the organisms present are required to yield credible ecological and reliable bio assessment results.

Genus level testing:

2016 saw twenty-nine genus level testing events throughout North America, leading to 67 successful certifications for the 90 tests written. These certifications were achieved with accurate identification of 95% + of specimens or images on a practical test. There was a 74% success rate for genus level testing in 2016.

SFS Taxonomic Certification Program

Genus Level Tests (Specimens and Images) 2009-2016



The SFS TCP tests are made accessible to people who identify macroinvertebrates. The genus-level tests are conducted with specimens (east and west General Arthropods), specimen slides (Oligochaeta) and now images (east and west Ephemeroptera, Plecoptera and Trichoptera and Chironomidae). The genus tests help evaluate ability to find and assess diagnostic characters and are attractive for professionals using genus or species level protocols. The test candidates must identify 19 of the 20 specimens or image collages correctly for a score of 95% to gain certification. A successful certification stands for 5 years and is posted on the TCP website during this time.

Genus level Re-Certification by Petition (TCC):

In 2012 the TCC drafted a Re Certification Petition which is now available to Certified Taxonomists choosing to renew their Certifications after 5 years, using the Petition rather than a test.

In 2016, 3 genus level certifications have been renewed by petition to the SFS Taxonomic Certification Committee (TCC).

To date there have been 30 submitted petitions for certification renewal and all have been successful.

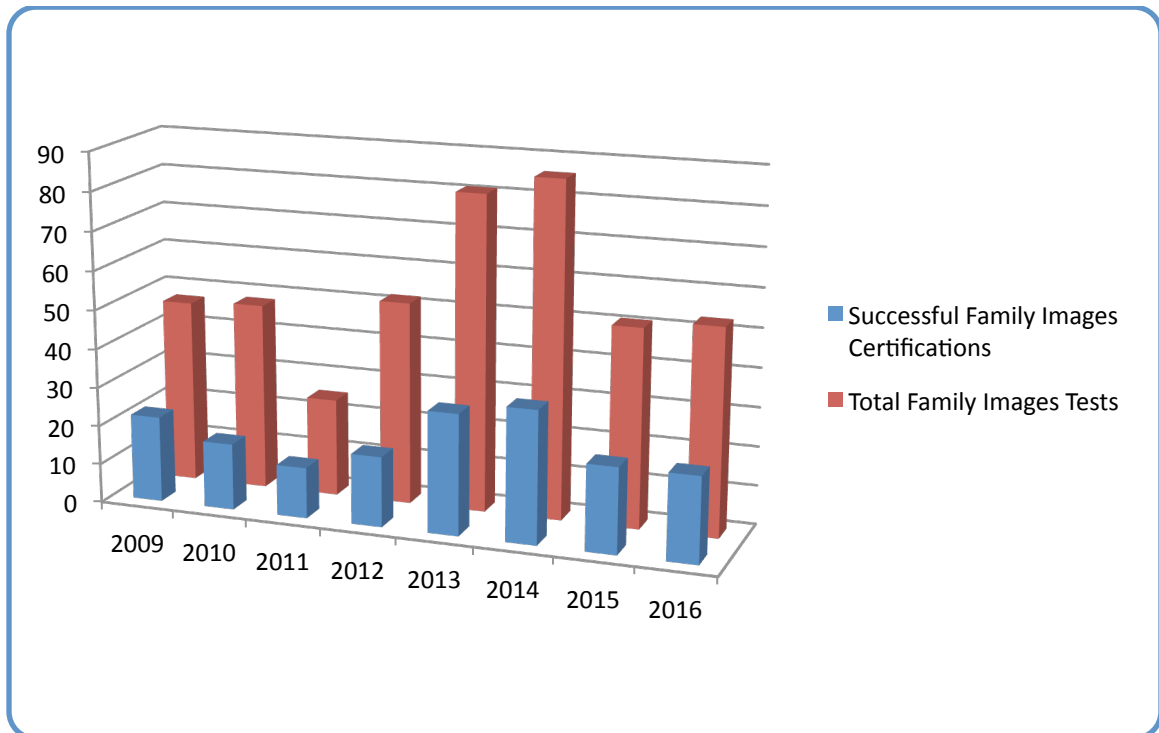
SFS Taxonomic Certification Program

Family Level Testing:

The family level Certification is accomplished with successful identification of 38 of 40 (95%) web and USB based image collages. These image-based tests are economical means for evaluating ability with family-level distinctions. Images covering a wide range of aquatic insect families were produced by Dr. Colbo in 2013 to enhance testing. The web-based, family-level tests are attractive not only for professionals using family-level protocols, but also volunteers who may be assisting monitoring programs. These tests are also being used as end of term options offered by Professors for students wishing to bolster their CV's as well as the end of workshops. These image collages can be viewed and practiced on the free self-evaluation portal of the TCP to website registered members.

In 2016 there was a 41% success rate at the Family level. The lower success rate (than at the genus level) is thought to be due to the test being tried by students and people working with community groups which will have less experience than those writing at the genus level.

Family level Tests (Images) 2009-2016



SFS Taxonomic Certification Program

Test Development Update:

The North American genus Mollusca and Chironomidae image tests were made available for beta testing at the annual SFS meeting in Sacramento, CA in May, 2016.

The Chironomidae Image test produced by Dr. Colbo at Acadia University has proven to be very successful and well received and continues to be offered on USB sticks.

The Mollusca Image test produced by Clemson Imaging Department was withdrawn after feedback from beta testing due to not enough diagnostic information for genera identification in the image files. The incomplete Mollusca image files are held by the TCP and are waiting to be up graded as the experts and funding become available in the future.

Test Proctoring:

With every effort being made to accommodate busy labs and their employees, we have been able to offer the image tests “in house” and supervised using web cameras between the TCP administrator and the test candidates. There have been 14 remotely supervised tests in 2016.

Thank you to all who have given their time and space to supervise testing.

The SFSTCP 2017:

Exciting News: The Stroud Water Center has offered to administer the certification program starting in 2017.

Also, moving forward, any money coming into the program in the way of government grants or contracts will be managed through the SFS.

Finances

SFS Taxonomic Certification Program

TCP financial records 2016 US dollar account

Date	Description	Test fees (Cheques)	Grants	Bank Charges	Refunds	Purchases specimens Experts etc	Transfers	Balance
Jan.1	Amount carried over from 2015							20,061.05
20-Jan	N. Macelko- Family Test	100.00						20,161.05
29-Jan	Bank Charges (0.20+6.00+1.25)			7.45				20,153.60
4-Feb	John Epler verification services \$400					400.00		19,753.60
17-Feb	C. Smith- Beta Chiro. Genus test	350.00						20,103.60
	C. Smith- Beta Chiro. Test fee refund CK87				175.00			19,928.60
29-Feb	Bank Charges (0.20+6.00+2.50)			8.70				19,919.90
31-Mar	Bank Charges (6.00)			6.00				19,913.90
18-Apr	Asheley Moore (8 Students family test)	400.00						20,313.90
29-Apr	Bank Charges (.0.20+6.00+2.50)			8.70				20,305.20
4-May	Beta Mollusc Test S Sullivan, J Webe	250.00						20,555.20
6-May	GEI tests (7 tests 2 Beta Chir and 5 recertified)	1,400.00						21,955.20
26-May	L Bakor	250.00						22,205.20
31-May	Bank Charges (.06+6.00+3.75)			10.35				22,194.85
30-Jun	Bank Charges (6.00)			6.00				22,188.85
11-Jul	d. Jordahl	350.00						22,538.85
18-Jul	J Roberts	250.00						22,788.85
29-Jul	Bank Charges (0.40+6.00+2.50)			8.90				22,779.95
5-Aug	C. Logan	350.00						23,129.95
15-Aug	R. Browder	250.00						23,379.95
19-Aug	R Gerlock & J Lynch	500.00						23,879.95
22-Aug	Transfer \$5000 to Canadian dollar Account						5000.00	18,879.95
31-Aug	Bank Charge (0.60+6.00+3.75)			10.35				18,869.60
1-Sep	EcoAnalysts Inc.	1,950.00						20,819.60
1-Sep	Rhithron, Inc	2,500.00						23,319.60
1-Sep	Istvan Turcsanyi	350.00						23,669.60
8-Sep	L. Astin- Fairfax County	350.00						24,019.60
16-Sep	G. Hoover	100.00						24,119.60
30-Sep	Jason York	350.00						24,469.60
30-Sep	Bank Charges (1.20+6.00+5.00)			12.20				24,457.40
31-Oct	Bank Charges (6.00)			6.00				24,451.40
28-Nov	B. Carlson	250.00						24,701.40
30-Nov	Bank Charges (0.20+6.00+1.25)			7.45				24,693.95
5-Dec	Stroud Center- 7 SFS member Tests	1,750.00						26,443.95
31-Dec	Bank Charges (0.20+6.00+1.25)			7.45				26,436.50

SFS Taxonomic Certification Program

US \$ Account 2016

Description	Test fees	Test Fee	Paypal	PayPal	BMO	BMO	Refund &	refunds &	Bal US\$	Bal Can\$
	US\$	Can \$	fees US\$	fees Can \$	Trans US\$	Trans Can \$	debit US\$	debit Can \$		
Carry over from 2015									1122.50	242.15
Ryan Prosser- Family Test	100.00		3.20						1219.30	242.15
Nathan Carter/ B. Trammell- Genus Test	200.00		6.10						1413.20	242.15
Scott McDonald- Family Test		100.00		3.20					1413.20	338.95
Brendan Martin- Family Test		100.00		3.20					1413.20	435.75
Brett Stern- Genus Test	250.00		7.55						1655.65	435.75
Megan Stevenson- Family Test		100.00		3.20					1655.65	532.55
Third Rock Consultants- 3 Genus Tests	750.00		22.05						2383.60	532.55
K. Guild/ G. Lester- Family Test	100.00		3.20						2480.40	532.55
Appalachian Tech Serv-3 Genus Tests	1050.00		30.75						3499.65	532.55
Justin Loyd	75.00		2.48						3572.17	532.55
H. Stout (E.Gutulata@gmail.com) 50% beta Chiro.			1.25				125.00		3445.92	532.55
Stephen Boley (family)	100.00		3.20						3542.72	532.55
Shaun Anthony (family)		100.00			3.20				3542.72	629.35
Anita Komodi (Beta test Chironomid)	175.00								3717.72	629.35
Karen Buchanan		100.00							3717.72	729.35
Serenalover (S. Unger Re-Certification))	250.00		9.55						3958.17	729.35
Amelia Fietz Family test	100.00		4.00						4054.17	729.35
Natalia Maass Family Test	100.00								4154.17	729.35
Kari Dupler	100.00								4254.17	729.35
C Regan	250.00		9.55						4494.62	729.35
Ellen Friedman for Neal Dzielapak Genus test	250.00		9.55						4735.07	729.35
Ellen Friedman Genus Test	350.00		13.25						5071.82	729.35
Sue Salter		125.00			3.93				5071.82	850.42
C. Watson	650.00								5721.82	850.42
Elise Coffelt	250.00		9.55						5962.27	850.42
Cole Ecological, Inc.	500.00		18.80						6443.47	850.42
James Brown		250.00		9.55					6443.47	1090.87
Sue Salter		750.00		22.05					6443.47	1818.82
Qi Liu		250.00		7.55					6443.47	2061.27
Sue Salter		600.00		17.70					6443.47	2843.57
Sue Salter		250.00		7.55					6443.47	2886.02
Shea Tuberty	350.00		13.25						6780.22	2886.02
PayPal Transfer Can \$2886.02 to BMO Checking								2886.02	6780.22	0.00
PayPal Transfer US \$6780.222 to BMO Checking							6780.22		0.00	0.00
Scott MacKenzie		75.00		2.48					0.00	72.52
Adam Webb		130.37							0.00	202.89
P Dussault (Ariane Piche Family test)		100.00		3.20					0.00	299.69

SFS Taxonomic Certification Program

*Submitted January, 2016 by Dr. Murray H. Colbo, Coordinator, and Gail Corkum,
Assistant Coordinator, SFSTCP, Acadia University, Wolfville, Nova Scotia, Canada.*

Technical Issues Committee Annual Report 2017

Committee membership:

Sean Sullivan, Co-chair (2016)
Rebecca Winterringer (Co-chair)
Erin Smith
Michelle Hornberger
Molli Newman
Steve Beaty
Kristen Pavlik
Mark Wetzel
Jerry Jacobi
Steve McMurray
Quenton Tuckett
Irwin Polls

Committee Activities:

The Technical Issues Committee organized and carried out four Technical Issues Workshops, and the annual taxonomy fair at the 2016 SFS annual meeting in Sacramento, California.

Workshops:

The Introduction to R workshop is a continuing workshop that has been offered for several years and received little attention in 2016. At the 2016 SFS meeting 7 SFS members attended the 8 hour workshop instructed by Ben Jessup and Lei Zheng. Post meeting workshop evaluations to the participants suggested that most participants gained some working knowledge of the R program and the R studio interface, and most agreed that a single day (8 hour) session is too little time to master the topic. Instructors have mentioned that it is a difficult subject to instruct to a wide audience in one day. Due to the limited attendance the TIC will not offer this introduction course in future years until a demand is visualized. Through the fees associated with the R workshop the TIC was able to bring in \$675.00 of revenue.

The Mollusk Taxonomy workshop was instructed by Jeremy Tiemann and Ken Cummings, and was attended by 16 individuals. Students also commented that the microscopes provided were nice and were sufficient for working with the specimens at hand. The most common suggestion reported on the post meeting evaluations was the desire to have more time and also to have a field component of the workshop. There was also concern about the standardization of Mollusk nomenclature, and what sources are to be used. The Mollusk Taxonomy workshop produced revenue of \$1,875.00.

The workshop focusing on Bioassessment methods for soft-bodied algae was a huge success. Drs. Rosalina Stancheva and Julianne Heinlein led the workshop and all attendees were happy to have the time to interact on methods, ecology and taxonomy of soft algae in North American

waters. Participants were also happy to discuss the common QC issues associated with soft algae ID. The workshop had 14 attendees and produced revenue of \$1,275.00.

Stream Hydrology for Ecologists was also a huge success and stemmed from members of the TIC committee seeing the need for this informational and instructional workshop. Ken Eng (USGS) and Ted Grantham (USGS) led the workshop that focused on hands on exercises focusing on methods for obtaining and calculating flow and watershed data, prediction of natural and altered flows at ungauged locations, and modeling floodplain hydrology. The workshop was attended by 20 people (SOLD OUT) and produced a revenue of \$725.00

After expenses, the four 2016 workshops produced a net revenue of \$1,635.35 that was deposited into the TIC account.

Taxonomy Fair:

The Technical Issues Committee gathered 13 taxonomic experts (Table 1) to assist SFS members in the identification of problematic specimens. Approximately 60 individuals visited the Taxonomy Fair at the 2016 meeting. Specimens came in from all over the Nearctic, Oriental, and Austral regions. The Taxonomy Fair was located in the main hall adjacent to the concurrent poster session. Several of the Taxonomy Fair experts and longtime SFS members commented upon the improved location for the Taxonomy fair and noted that the exposure was great.

No revenue is generated from the Taxonomy Fair.

Table 1:2016 SFS Taxonomy Fair expert participants

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

Annual Committee Meeting:

Six members attended the annual committee meeting during the luncheon on Sunday. Among the topics discussed were the 2017 workshop planning and budgetary items. Due to the increase in the number of workshop topics being proposed by the SFS general membership, the TIC decided to submit a survey to the membership on the workshop topics received and select the 4 best 'liked' by the membership. This ultimately puts the membership in the driver's seat about what topics they see best needed at annual SFS meetings. Additionally, the TIC discussed providing a 'scholarship' to attend the SFS annual meeting workshops. Although the committee encouraged the scholarship process, the TIC has not been able to implement the scholarship program for the 2017 meeting.

Account Balance as of December 2015: \$25,674.00

Science and Policy Committee Report 2017

Committee membership:

Mike Paul (coChair)

Ron Griffiths (coChair)

John Olson

Than Hitt

Dan Auerbach

Jason Taylor

Kiza Gates

Mike Shupryt

Pat Medvick

Sandra Clinton

The committee this year focused on drafting several letters and policy positions. We drafted comment letters on the Army COE 2015–0017, Proposal to renew and modify 2017 Nationwide Permits and Draft and on the EPA-USGS Technical Report: Protecting Aquatic Life from Effects of Hydrologic Alteration. We reviewed letters for society President signature from CASS encouraging the US President to consult with CASS and member societies on issues related to freshwater and encouraging support for scientific funding across multiple agencies, and we reviewed a letter from the Wetland Society for SFS President to sign supporting (once again) the Clean Water Rule, currently in litigation. Finally, we worked on drafting society policies on environmental flows, dual nutrient control, and we are working on updating the SFS Statement on Policy and Procedures for Science & Education Advocacy (<http://www.freshwater-science.org/Policy/Science-Education-and-Advocacy.cfm>) to update it to current SFS constitution and naming conventions.

International Coordination Committee Annual Report 2017

Committee membership:

Blanca Ríos-Touma (Ecuador) (Co-Chair)
Alonso Ramírez (Puerto Rico) (Co-Chair)
Ivan Arismendi (Chile)
Mark Gessner (Germany)
Michael T. Monaghan (Germany)
Yushun Che (USA)
Masaru Sakai (Japan)
Len Ferrington (USA)
Alexander Milner (UK)
Daniel von Schiller (Spain)
John Morse (USA)
Tim Moulton (Brazil)
Piet F.M. Verdonchot (Netherlands)
Sylvester Ogbogu (Nigeria)
Thibault Datry (France)
Scott Larned (New Zealand)
Mario Brauns (Germany)
Sonja Jaehnig (Germany)
Marco Cantonati (Italy)

Report for the 2016-2017 period

1- During this past year, the ICC was involved in a collaboration with the Latin American chapter to provide a special session at the SFS Raleigh annual meeting.

The importance of environmental gradients for the advance of tropical stream ecology. Organized by Andrea Encalada and Alonso Ramírez.

2- ICC membership turnover and consolidation: We continue to have little response from our ICC members and little or no progress was accomplished in our ongoing projects. We will use the 2017 SFS meeting to discuss this issue with members and look for additional members.

Future plans (same as in the 2016 report):

1- Interacting with international chapters. The ICC is also exploring how to support international chapters. The ICC will work on maintaining chapters interconnected and informed of each other activities.

2- List of international Freshwater Societies: The list includes contact information and web page, when available, for each society. The ICC in coordination with the SFS web page committee has produced a **web map (e.g., using Google earth tool facilities) that includes all information gathered up to date on other freshwater societies around the planet.** We will continue working with the web page committee to maintain the map accessible from SFS web page.

3- Given the importance of attracting international participants to improve SFS international presence, the ICC will explore ways in which SFS can facilitate the participation of students in our meetings. Activities include: gathering information on funding opportunities for international students, exploring ways to help students obtain their visas to the USA, and work with the new international chapters to expand their membership.

Conservation and Environmental Issues Committee Report – 2017

Committee membership:

Eric Strauss - Chair (2016)

Jennifer Lynch

Ed Dewalt

David J. Berg

Chris Peterson

John Wallace

Tom Arsuffi

Nick Aumen

Barry Baldigo

Susanna Decelles

Ken Fritz

Michael Griffith

Donna Kashian

Stephen McMurray

Bill Perry

Karen Gaines

Steve Rier

Sally Entrekin

Robert Stelzer

William Thoeny

The Conservation and Environmental Issues Committee (CEIC) has one item to report:

- 1) Four graduate students submitted applications for the Graduate Student Conservation Research Award in 2017. This is similar to the number of applications we have seen in previous years: 3 in 2016, 17 in 2015, 10 in 2014, and 2 in 2013. The CEIC committee decided to grant two awards this year:
 - a. The first award consisted of a \$1000 grant plus reimbursement of the \$305 early registration fee to attend an annual SFS meeting. The awardee was:

Jacob M. Hutton
University of Kentucky

Proposal title: The effects of specific conductance on stream salamander occupancy and allochthony in southeastern Kentucky.

- b. The second award was smaller (\$695) and did not include registration costs. The awardee was:

Corey A. Krabbenhoft
Wayne State University

Proposal title: Conservation of native fauna: Identifying anthropogenic factors contributing to invasion success.

Education and Diversity Committee Report - 2017

Committee membership:

Checo Colon-Gaud (Chair)

Peter Levi

Kevin Wyatt

Alicia Slater

Pat Edwards

Roger Haro

Lisa Kunza

Pete Cadmus

Randy Fuller

Timothy Hoellein

Judith Li

Tamara Slus

Mike Peterson

Carla Atkinson

Krista Capps

Patina Mendez

Petra Kranzfelder

The Education and Diversity Committee (EDC) had another busy year in 2016-17, continuing their involvement in several activities and programs during the annual SFS meeting (e.g., workshops, special sessions, Instars), but also contributing to collaborative efforts outside of the meeting venue and with our sister societies as part of the Consortium of Aquatic Scientific Societies (CASS). More specifically, during the 2016 meeting in Sacramento, the EDC contributed to the development and planning of Stroud's Leaf Pack Workshop, the 6th installment of the Instars Mentoring Program, and a special session on education and diversity. At the SFS meeting in May, society president Emily Bernhardt tasked the EDC with assisting in reviewing its membership in several committees and consider ways to get new members representing the diversity of the society in different committees. Since the meeting in May, the EDC has consulted with the president to identify members for serving in several committees (e.g., early career representatives, an ad hoc committee to develop a Code of Conduct, etc.), including adding two student representatives (SRC) to the EDC. Furthermore, and in this capacity, the role of the EDC continued to expand to activities outside of the SFS meeting, primarily in planning for 2017 meeting activities, but also by representing the society in other venues (e.g., invited talks, workshops, and conferences). Below a list of specific activities are outlined.

SFS 2016 Meeting in Sacramento, CA

1. A special session titled 'Diverse undergraduate student experiences of future freshwater scientists' was organized by Matt Cover, with multiple EDC members contributing to the session.
2. The 6th installment of the Instars Mentoring Program included 18 fellows and 7 graduate mentors. 15 of our fellows contributed oral presentations or posters at the meeting. Funding was secured for the next 3 years of the program (2017-19).
3. The traditional Leaf Pack Workshop organized by Stroud's Bern Sweeney (President and Distinguished Research Scientist at Stroud) and Tara Muenz (Education Programs Manager at Stroud) in collaboration with former EDC chair Matt McTammany had a total of 14 participants, mostly middle and high school teachers. Funding was secured for the 2017 meeting in Raleigh, NC.

Post 2016 meeting

1. In October 2016, EDC chair, Checo Colon-Gaud, led a special discussion on broadening participation at Denison University using the Instars Mentoring Program as a model for achieving these efforts.
2. In addition, the committee was asked to represent the Society as part of the Consortium of Aquatic Science Societies (CASS) to contribute to a booth at the National Diversity in STEM Conference hosted by the Society for the Advancement of Hispanics/Chicanos and Native Americans in Science (SACNAS) in Long Beach, CA also in October 2016. Checo Colon-Gaud, along with EDC members PJ Torres (early career) and Nick Macias (student) worked at the booth in representation of SFS for two days of the conference.
3. Members of the EDC along with members of the SRC contributed to the development of a Code of Conduct to be employed during the upcoming meeting in Raleigh, NC.

SFS 2017 Meeting in Raleigh, NC

1. The Instars Mentoring Program will conduct their 7th installment of the program with 15 fellows and 7 mentors.
2. EDC members Kaleb Heinrich and PJ Torres have organized a special session titled 'Scholarship of Teaching and Learning in Freshwater Science' with 11 contributed talks. This special session will focus on teaching (e.g. techniques, goals, troubleshooting, modules, experiences) all levels of freshwater science. The goal of the special session is to encourage SFS members to contribute inquiry activities and resources to be used in the classroom/lab, and ultimately, increase the availability of educational outreach materials offered as a society (which are currently scarce).
3. EDC member and former chair Matt McTammany coordinated with the Stroud Center for the Leaf Pack Workshop during the meeting Raleigh. (Rending: Matt won't be able to attend the meeting the meeting, but other EDC participating is being considered).

Each of these activities and programs contribute to the goals of the EDC to develop and promote diversity in SFS and to provide educational opportunities for members and other educators. Furthermore, they contribute to the SFS mission to promote an understanding of freshwater ecosystems by fostering exchange of scientific information among the membership and the public. The EDC will continue to seek opportunities that address these goals and further improve the role of SFS in providing resources for education, outreach, and promoting the diversity of our Society.

Sponsorship and Development Committee Report -2017

Committee membership:

Al Steinman - co-chair

Lucinda Johnson - co-chair

CJ Geraci

Bern Sweeney

Nick Aumen - LRPC Chair

Dave Penrose (Raliegh meeting)

Jim Heffernan ((Raliegh meeting)

Krista Capps (INSTARS focus)

The Sponsorship and Development Committee (SDC) has been in existence for five years. The Committee consists of co-chairs Al Steinman and Lucinda Johnson, as well as four (4) members to the committee. Two of these 4 members will serve 3-year terms, and two will serve 1-year terms and be members of the Local Arrangements Subcommittee who preferably reside in or near the city of the annual meeting. The committee shall also include the following ex officio members: Chair of the Long-Range Planning Committee, Chair of the Student Awards Sub-committee, Chair of the Annual Meeting Committee, and Chair of the Graduate Resources Committee.

In 2016, both Al Steinman and Lucinda Johnson agreed to serve a second 3-yr term as co-chairs (2016-2018). Bern Sweeney and Christy Geraci also agreed to serve second 3-yr terms (2016-2018), with the new 1-yr members being Dave Penrose and Jim Heffernan (Local Arrangements). In addition, the ex officio members include Nick Aumen (Long-Range Planning Committee); Krista Capps (INSTARS; note that a student awards representative to replace Peggy Morgan was never appointed); Colden Baxter (Annual Meeting Committee); Bill McDowell, and Jack Stanford. A representative from the Student Resources Committee also needs to be appointed to the SDC, if we retain the current format.

Activities over the past year were to be focused on fundraising for the Annual SFS Meeting in Raleigh, NC, but aside from a few early email exchanges, where fundraising template letters were provided to the Raleigh meeting organizers, the SDC co-chairs were not directly involved in fundraising efforts. It is unclear to the SDC chairs whether any funds have been raised for the meeting. The co-chairs reiterate a message provided last year: (1) fundraising at the local (i.e., host city) level must begin two years prior to the meeting, to allow adequate time for relations to be established; and (2) more emphasis must be placed on national and international donors, who will provide funding irrespective of where the meeting is being held.

We again make two recommendations to help address the above issues. First, even with a 2-year lead time, it is essential that people developing relationships and ultimately making asks have the appropriate skill set to be successful; these are skills that are absent in most academics. While the current SDC co-chairs do have experience in this arena, they have full-time jobs and it is unrealistic to expect them to devote time and energy to this very significant task—rather, we need a dedicated individual, trained in Donor Development, to be assigned this important task. Second, we recommend a dedicated, dependable, long-term funding strategy to supplement the current approach of relying on local, annual donations, which vary considerably from year to year. In short, we recommend a donation box on annual membership forms for members to donate to an endowment fund to help support Society activities.

***Freshwater Science* Business Manager's Report**
Irwin Polls
FRESHWATER SCIENCE
VOLUME 35 (2016)

In 2016, the total revenue for Volume 35 of *Freshwater Science* was \$195,543. Individual Society member and institutional subscriptions accounted for 20.6 and 49.4%, respectively, of the total Journal revenue. 23.1% of the Journal revenue was from author page charges. Open access accounted for 2.3% of the total Journal income. The remaining 4.6% of income was from permissions and back issue sales.

The total number of pages printed in *Freshwater Science* during 2016 was 1,378. The total expenses for Volume 35 of *Freshwater Science* were \$167,582. Journal production costs (composition, manufacturing and mailing) accounted for 17.3% of the expenses. 79.8% of the expenses were for production staff and business management. The remaining 2.9% of Journal expenses were for marketing and computer.

Overall, *Freshwater Science* had an excess of income over expenses of \$27,961 for 2016. The excess income resulted from a reduced number of manuscripts submitted to *Freshwater Science* during 2016 and fewer printed pages.

Irwin Polls
Business Manager
Freshwater Science

FINANCIAL STATEMENT¹
VOLUME 35 (2016)

REVENUE

Member Subscriptions	\$40,182
Institutional Subscriptions	96,561
Page Charges	45,160
Open Access	4,500
Rights and Permissions	8,302
Single Issue Sale	838

TOTAL REVENUE **\$195,543**

EXPENSES

Composition	\$16,306
Manufacturing	8,803
Mailing/Postage	3,862
Editor	35,496
Assistant Editor	33,360
Business Manager	16,392
Technical Editor	5,600
Press Business Services	42,832
Marketing	2,855
Computer	2,076

TOTAL EXPENSES **\$167,582**

EXCESS REVENUE OVER EXPENSES **\$27,961**

FRESHWATER SCIENCE
2016 FINANCIAL STATEMENT¹
SUMMARY INFORMATION

REVENUE

Member subscription²:

893 @ \$30 = \$26,790 (regular) - 3% fee (\$803.70) = \$25,986.30

165 @ \$25 = \$4,125 (young professional) - 3% fee (\$123.75) = \$4,001.25

443 @ \$10 = \$4,430 (student) - 3% fee (\$132.90) = \$4,297.10

Total member electronic access income³ = \$34,284.65

Member paper subscriptions:

76 @ \$80 = \$6,080 (paper) - 3% fee (\$182.40) = \$5,897.60

Total member paper copy income³ = \$ 5,897.60

Total number of institutional subscriptions = 501

\$30/page author billing

EXPENSES

Volume 35 production costs for 1,378 printed pages.

¹Prepared by Irwin Polls May 2017

²Electronic access fee waived for Journal staff, Associate editors, and Emeritus members.

³Net revenue

FRESHWATER SCIENCE
2016 FINANCIAL STATEMENT¹
SUMMARY INFORMATION

The 2016 Journal financial statement does not include income generated by the Freshwater Science Reserve. Reserve income (interest and dividends) for 2016 was \$1,352.43.

The 2016 Journal financial statement does not include miscellaneous expenses. Miscellaneous expenses included annual meeting expenses, page charge waivers, postage, and color pages. Total miscellaneous expenses for 2016 were \$10,749.27.

FRESHWATER SCIENCE CHECKING ACCOUNT

The balance in the Journal's checking account on December 31, 2016 was \$73,954.19.

FRESHWATER SCIENCE RESERVE

The balance in the Freshwater Science Reserve on December 31, 2016 was \$52,652.01.

¹Prepared by Irwin Polls May 2017

Secretary's Report
Summary of BOD Motions and Votes
2016/2017 Term

Submitted 5/20/2017 by Sally Entrekin

Note: BOD Meetings not included had no motions or votes.

Meeting: May 21, 2016

Motion

Mike Swift moved to accept the consent agenda. [The consent agenda includes approval of

1. Minutes from March BoD Meeting
2. Society Financial Report
3. Journal Financial Report
4. Secretary's Report
5. Standing Committee Annual Reports]

The motion was seconded.

Discussion: none

Vote (by voice): All in favor, none opposed, no abstentions

The motion carried

Motion

Emma Rosi-Marshall moved that the Board indicate its support for the proposed constitutional amendments.

There are three amendments to the Constitution and Bylaws up for vote by the membership at the SFS Business meeting Monday. They are 1) "Assistant to the President" to be renamed "Vice President"; 2) The creation of a Journal Endowment and associated committee to oversee it; 3) the creation of an SFS Fellow program.

The motion was seconded

There was no discussion.

Vote: All in favor none opposed, no abstentions. The motion carried.

Motion

Emily Bernhardt moved to sign the letter of intent to collaborate.

The motion was seconded.

Discussion: Is there going to be a conflict with our meeting planning contract? Answer: there'd likely be a new RfP for the meeting. Our current meeting planning contract expires prior to the meeting—the next RfP can be written to accommodate a JASM meeting year.

Vote: All in favor none opposed, no abstentions. The motion carried.

Motion

Kim Haag moved to support the booths at both SACNAS and MANRRS.

The motion was seconded.

Discussion: Do we know what the cost of MANRRS is? Answer: no, but it is expected to be about the same as SACNAS.

Vote: all in favor, none opposed, no abstentions. The motion carried.

Meeting: June 8, 2016

Motion

Emily Bernhardt moved to continue INSTARS support.

Discussion: INSTARS will be supported at \$10,000 for next 3 years.

Vote: all in favor, none opposed, no abstentions. The motion carried.

Meeting: July 14, 2016

Motion

Emily Bernhardt moved to get approval by BOD to vote on Mark Wetzel's request for Literature Review Committee funds.

Discussion: The funds for \$2000 to digitize and achieve all of the literature review efforts from SFS Literature Review Committee. The funds could come from the Presidential Discretionary pool or the Strategic Plan budget. It is not clear if the Executive committee can approve spending. Board of Director's will be contacted via email to vote on Mark Wetzel's request OR this will be an agenda item in September.

Vote: all in favor, none opposed, no abstentions. The motion carried.

Motion

Emily Bernhardt moved to approve a one-time expense to pay for the registration of all Society for Freshwater Science Fellows for 2017 annual meeting-sent as an email August 16, 2016.

Discussion: Free registration for student winners and plenary speakers is already available. Are there funds for the Fellows? Mike Swift says student awards are paid for by the donations that Peggy Morgan solicits for that fund. Society also covers the cost by

increasing the registration. Fellows registration waiver would require a one-time large investment that will come from meeting revenue. The question was if the one time expenditure could come from Operations budget. It was decided that the Board had to vote to approve. Emily will draft a letter that provides total expense that will first go to Kim Haag and Mike Swift for approval.

Vote: 13 in favor, 1 opposed, 1 abstention

Meeting: September 14, 2016

Motion

Emma Rosi moved to support the development of a proposal for an income based fee (dues) structure to be determined by Peter Levi's future analysis.

Discussion: Peter Levi (PUI Ad hoc chair of this initiative) is researching how changing SFS fee structure to salary-based would impact society revenue. He is considering:

- two or 3 year membership to help keep members current
- fee structure
- or both.
- Goal: Get membership to reflect those that feel affiliation to increase societal impact.

Vote: all in favor, none opposed, no abstentions. The motion carried.

Meeting: October 13, 2016

Motion

Emily Bernhardt proposes to form an Executive Director Committee to draft description of the position, write the advertisement and interview applicants.

Discussion: Emily Bernhardt and Steve Thomas propose drafting a position description and soliciting applications widely and then deciding after receipt of applications whether to also consider a management firm (the management firm is the backup plan). BOD will be responsible for approving the ad, but Emily, Steve, Colden Baxter, and Amy Marcarelli would be committee members.

Vote: all in favor, none opposed, no abstentions. The motion carried.

Meeting: December 14, 2016

Motion

Kim Haag moved to approve the 2016 Budget.

Discussion: Kim reviewed expenditures for 2016 and projected expenses for 2017. Reserve funds will be used for the website update. Executive Director Position will encumber 2-years of funding. Awardee payouts vary from year to year because winners do not always send in reimbursement forms for registration.

Vote: all in favor, none opposed, no abstentions. The motion carried.

Motion

Emma Rosi moved to support Argentic as website designers.

Discussion: Chuck Hawkins led the discussion as the Publications Committee chair. Bids for the redesign were taken from 6 vendors, reviewed, and only 2 were within the budget. Phone interviews were conducted by the PubComm for the 2 vendors and they voted unanimously to support Argentic and recommend SFS contract with Argentic.

Vote: all in favor, none opposed, no abstentions. The motion carried.

Motion

Emily Bernhardt made a motion to proceed with an SFS logo redesign that includes a freshening of the current and original logo.

Discussion: The current logo is a stonefly and does not represent the fullness of the membership. For example, a policy memo with a stonefly is not transmitting information about the society. So, Kim says that would mitigate against a refresh. The ExComm will inform the membership that the board feels a logo update is needed and make sure the membership understands the need: for a refresh or new logo. The Bod will provide rationale for considering why a new logo is needed. Membership will vote on a new logo or keeping the current logo.

Vote: all in favor, none opposed, no abstentions. The motion carried.

Motion

Emily Bernhardt moved to insert the code of conduct in the SFS annual meeting registration process.

Discussion: An ad-hoc committee recommended a Code of Conduct statement that was led by Joanna Blaszcak. The statement describes expected conduct at the SFS meeting and suggests some consequences for not following the code. Much discussion about how a disruptor would be handled resulted in just adding the principles of participation to the registration process.

Vote: all in favor, none opposed, no abstentions. The motion carried.

Meeting: February 9, 2017

Motion

Emily Barnhart makes a motion to do away with traveling plagues.

Discussion: USU, Joy Brisighella and Angie Griffith, will create and print the poster replacements for the traditional heavy, wooden traveling plaques that they add the engraved award recipient to each year. USU graphic artist will basically recreate a digital file of each of the 3 wooden plaques and USU will color print on a foam core board. Going to foam core board will make it much easier to transport each year and we will just add to each one each year and reprint since it is very minimal in cost.

Vote: all in favor, none opposed, no abstentions. The motion carried.

Meeting: March 8, 2017

Motion

Emily Bernhardt moved to approve the operational budget that includes \$25,000 for the Executive Director position.

Discussion: Mike Swift and Kim Haag proposed that funds for the Executive Director should come from. Mike proposed the SFS reserve fund because taking 10 or 15k would not reduce funds much below the recommended threshold.

Vote: all in favor, none opposed, no abstentions. The motion carried.

Motion

Emily Bernhardt moved to approve the Executive Director Position advertisement with minor revisions.

Discussion: Colden Baxter pointed out importance of background in aquatic science. Some revisions were made to the ad.

Vote: all in favor, none opposed, no abstentions. The motion carried.

Motion

Emily Bernhardt moved for a two-year investment in an Executive Director position at a salary of \$25,000 salary and \$3,000 travel budget per year. Strategic planning budget will pay \$15,000/year and operational budget will pay the remaining costs/year.

Discussion: none.

Vote: all in favor, none opposed, no abstentions. The motion carried.