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Divisions of SICB

Animal Behavior
Comparative Biomechanics
Comparative Endocrinology
Comparative Physiology & Biochemistry
Ecoimmunology and Disease Ecology
Evolutionary Developmental Biology
Ecology & Evolution
Invertebrate Zoology
Neurobiology, Neuroethology & Sensory Biology
Phylogenetics & Comparative Biology
Vertebrate Morphology



President's Message

By Lou Burnett, SICB President



Your contributions to SICB's student support programs enables students to conduct their research and then attend the annual meeting to present their results!

Double Your Dues for Student Support!

This year, SICB reached a milestone by having its membership the highest it has ever been — **2803** members! Fully half of our members are students, and SICB clearly treasures its students.

Two important sources of funding for SICB students conducting research are our **Grants-in-Aid of Research (GIAR)** program and our **Fellowship of Graduate Student Travel (FGST)** program. These two programs receive revenue from a single Student Research Fund, which is a part of the SICB endowment. The GIAR and FGST programs support research and travel for SICB student members, an important benefit of SICB membership.

With the new membership year (it began on April 1), we have started a **new three-year campaign** to raise money for the Student Research Fund. We are calling the campaign, "Double Your Dues for Student

Support." We are asking each member of SICB, **including students**, to contribute the **price of a single year of dues over the next three years** to this effort. **All donations received in this way will go directly to SICB's Student Research Fund** that supports the GIAR and FGST programs.

Many of our full and postdoctoral members started in SICB as student members. The integration and breadth of biology covered by SICB programs and meetings is attractive to our members for many reasons, and is especially important for our student members. SICB supports our students in many ways, including housing, registration, travel support to attend the annual meeting, reduced meeting registration fees, and reduced membership dues. The **Double Your Dues for Student Support Campaign** is a great way to give back to SICB!

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SICB Executive Officers

Louis Burnett

President, 2017-2019
College of Charleston

Beth Brainerd

President-Elect, 2017-2019
Brown University

Peter Wainwright

Past President, 2017-2019
University of California, Davis

Alice Gibb

Secretary, 2018-2021
Northern Arizona University

Susan Williams

Program Officer, 2018-2020
Ohio University

Richard Blob

Past-Program Officer, 2018-2019
Clemson University

Karen Martin

Treasurer, 2013-2019
Pepperdine University

Miriam Ashley-Ross

Treasurer Elect, 2018-2019
Wake Forest University

Brett Burk

Executive Director
McLean, VA

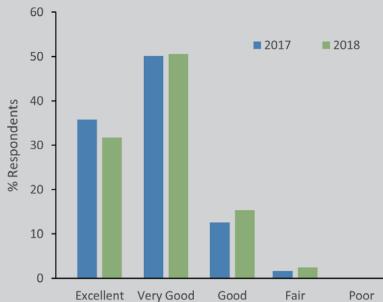


Figure 1: Response of SICB members who participated in the 2017 and 2018 surveys to the question: "Overall, how would you rate the meeting?"

Program Officer's Report: SICB 2018, San Francisco, CA, Post-Meeting Survey and SICB 2019 Meeting Update

By Susan Williams, Program Officer

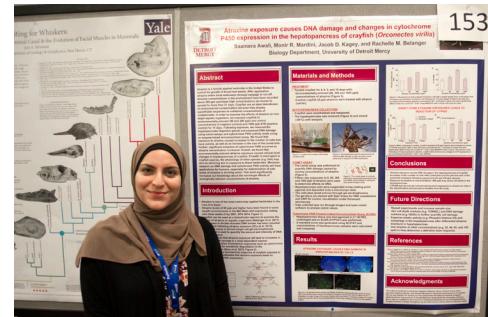


San Francisco was an excellent venue for the most recent SICB Annual Meeting.

Thank you to everyone who attended the 2018 SICB meeting. It was wonderful to return to the city of San Francisco for this conference, and I hope everyone had chance to sample great food and see some sights. A special thanks to all those who worked to make the meeting a success — from the staff at Burk, Inc. to all the folks who volunteered their time at the meeting chairing sessions.

Attendance at the meeting showed a slight increase over the previous year's meeting in New Orleans. We had 2497 registered attendees in 2018, compared to 2240 in 2017. Abstracts, however, were down with 1833 in San Francisco, compared to 1917 in New Orleans. While we would like to see the upward trend in growth that we have seen in our meeting attendance and presentations over the last decade or so, we also recognize that large meetings can be difficult for attendees to manage. I am sure many of you felt conflicted about which talks or workshops to attend. This is definitely something that will continue to be an issue if we grow, or even maintain our current size, but is also indicative of a vibrant and engaged membership. We received a lot of feedback on the conference, and I want to thank the 702 attendees who completed our Post-Meeting Survey. We absolutely want to hear

about your experience at the meeting. Rest assured that the Executive Officers of SICB discuss the results and read the comments to improve the meeting. Highlights from the survey results are provided below.



More than 1800 scientists presented their research at SICB 2018.

The overwhelming majority of respondents rated the meeting positively, with 82% indicating that it was very good (51%) or excellent (32%) (see Figure 1). This was slightly down from the previous meeting in New Orleans (86% in 2017).

Positive feedback we received from many respondents focused on the Society's support for students and the student-friendly nature of the conference, the diversity of topics covered in sessions and symposia, and the quality of the talks. Some of the constructive criticism that we received echoed what we heard from previous years – the size of the meeting and packed schedule, even during lunches and evenings, make it difficult to see everything of interest, network and sometimes even eat. While it is difficult to minimize these conflicts, the Program Committee does make every attempt to avoid potentially competing sessions based on topic, although with the size of the meeting, this is sometimes unavoidable. And without extending the meeting by a day, we are always faced with having to schedule workshops and lectures through lunch and the evening. The poster

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Member Benefit:

**25% Discount on
Oxford University
Press Books**

**Go to the SICB
Home Page**

**SICB President's Message**

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SICB Journals

In the coming year, SICB will have two journals: our long-time journal, *Integrative and Comparative Biology* (*ICB*), and a new, open-access journal, *Integrative Organismal Biology* (*IOB*). This article describes the evolution of our current journal *ICB*, explains where *ICB* is going and provides details of the mission for the new journal *IOB*.

Integrative and Comparative Biology is a preeminent biological journal. First published in 1961 as the "American Zoologist," it publishes symposium proceedings that are peer-reviewed, abstracts from the Annual Meetings, as well as book reviews, reports and special bulletins. The title "American Zoologist" was changed to "*Integrative and Comparative Biology*" with the first issue of 2002, Vol. 42 No. 1. The journal is published by Oxford University Press.

In 2016, Lynn "Marty" Martin was appointed to a five-year term as editor. Marty has transformed the editorial board to include four Associate Editors, eleven Assistant Editors (associated with each of the eleven divisions of SICB), and eight additional Assistant Editors. The journal also employs a Managing Editor, Suzanne Miller, and a Social Media Editor (Isaac Ligocki) and his three-person team.

The *ICB* editor and the editorial board work closely with the SICB Program Committee to encourage and select the best symposia to include in the annual meetings of SICB and, subsequently, to publish the proceedings as peer-reviewed papers in *ICB*. This format allows *ICB* to play a key role as home for synthesis, reviews, and forward-looking essays that capture our scientific legacy in integrative and comparative biology. Under the leadership of Marty, several new forms of paper are appearing now — including publications based on the Bartholomew award lecture and papers spanning topics as diverse as standards for video data collection and the systems biology of phenotypic robustness and plasticity. *ICB* will consider publishing the proceedings of symposia from other

societies, and will also consider publishing a short series of papers on a special topic.

One recent creative activity of *ICB* was the sponsorship of a workshop that was held in San Francisco on the opening day of the annual meeting — an *ICB* "Editor's Challenge Workshop." The workshop took place during the first day of the meeting, January 3rd, just before the plenary lecture. Participants worked together to define physiological "stress." The workshop was well-attended and very stimulating. You can check out the details of the workshop and find out more about how to define stress through the new *ICB* Facebook page. We encourage you to suggest topics for future workshops to the *ICB* editors, and follow *ICB* on Twitter (@ICBTweets) or check out the *ICB* blog at <https://integrativeandcomparativebiology.wordpress.com>.

***Integrative Organismal Biology*, the New Journal**

While *ICB* will continue to play its important role within SICB, the Society has embarked on an ambitious project to establish a new, open-access journal called *Integrative Organismal Biology* (*IOB*). The goal of *IOB* will be to publish peer-reviewed primary research articles, opinion pieces and letters in all the disciplines of biology, especially those of an integrative and organismal nature. It will serve as a home for new research in organismal biology, promote the best features of the discipline, and set a new standard for original research in integrative biology. *IOB* will be an open-access journal, published by Oxford University Press and the Society has appointed Adam Summers to be the founding editor of the journal. *IOB* welcomes contributions from both SICB members and non-members, and will begin publishing papers in January 2019.

The missions of the two journals are distinctly different, but both journals will serve the community of integrative and comparative biologists. Clearly, one journal does not replace the other, but rather the two journals will work collaboratively to cover the broad disciplines of biology associated with the SICB. ■

Program Officer's Report

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sessions received the most criticism, with commenters pointing out that the setup was crowded and the room was loud, making it difficult to appreciate the science. It is unfortunate that this was an issue, and we will work to make sure that there is a more comfortable setup at future meetings for presenters and attendees.

For those of you who attended the opening Plenary Lecture by Carl Zimmer, you are well aware that it was a packed house. We had anticipated a large crowd and we were definitely over capacity! By our estimates, there were over 1200 people in attendance — about half of the registrants. If you were unable to see the talk, he has graciously allowed us to post his slides on our website. The workshops received

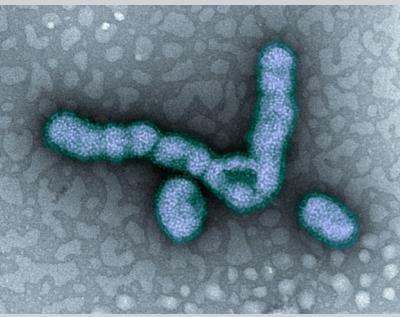
strong reviews, including the Public Affairs Committee Sketchnotes workshop and the Broadening Participation Workshop, with one commenter indicating that the latter was “positively life-changing.” Thank you to all of the organizers who work hard to provide engaging and focused learning opportunities to our members at the meeting.

The social events at SICB have typically been very popular but this year we did receive a fair amount of feedback focused on the cost of drinks and lack of sufficient food at the SICB-wide events. Respondents were, however, understanding that the location does impact our budget and ability to provide the same high level of amenities year-to-year without significant changes in registration fees. The off-site social events received mixed reviews, which largely depended on location. For all of these social

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The Vaccine-Busting Flu: An Insider's View

By Tom Roberts



This year's flu virus laid many people low, including SICB member Tom Roberts (Image Credit, Wikimedia Commons)

Each of us arrives at the annual SICB conference with our own set of eager anticipations: meetings with potential mentors or mentees, visits with old friends, talk sessions that might spur our next research direction, a presentation of our own that we hope might redirect the field — or maybe we just hope to survive it. My own experience is that the list just gets longer with each year I attend, and this year was no exception; my agenda for the San Francisco meeting was jam packed.

But it was not meant to be. The cough I felt beginning on the morning before I checked into the Marriott was in full bloom by midnight, and by ten the next morning I had been diagnosed with flu — despite having been vaccinated — and commanded to stay in my room for at least 24 hours (for such a quick diagnosis, it helps to have a spouse who is a family doc, available by phone, and accustomed to telling the patient/spouse what to do).

And so it came to pass that I spent the entire SICB 2018 meeting in my hotel room. I was on the fourth floor, just down the hall from

many of the rooms where presentations were being given. It is a remarkably odd feeling to be 100 feet from 100+ people you would love to see and reconnect with, and realize that you flew three thousand miles to be sick in a San Francisco Marriott. In a fevered haze, I watched way too much cable TV news (the Michael Wolff book had come out, so that was the dominant story, except, oddly, for one channel that seemed focused only on a scandal regarding how Hillary Clinton does email), and sent a few texts to folks I sorely wished I could walk down the hall and say hello to in person.

Of course, I'm deeply disappointed to have missed the meeting. But I don't see the experience as a complete loss. I'm grateful that the illness was identified before I began mingling with colleagues, so I didn't spread my vaccine-busting bug to the SICB community. Sometimes what you don't do matters as much as what you do, and I'm glad that in my case the bug was identified early, and kept in room 4023, with just me and my bad TV news. ■

SICB Finances – Treasurer's Report

By Karen Martin, Treasurer

In an effort to improve the transparency of SICB's accounting system, we are developing a new reporting system for Divisional funds. The new system will feature two separate pages for clarity.

One page will address the allocations to Divisions from the General Funds for recurring annual expenses. Each Division receives the same allocation: \$2000 to support symposia, \$800 for a social at the meeting, and \$300 for best student paper awards. In the new reporting page, the allocations and expenditures from those general funds will be reflected going back to 2013, and also going forward. Expenditures to these specific allocations are limited to those specific uses in each line item. Symposium support usually is designated by the Division Program Officers in the year prior to the symposium presentations, and may be divided among several symposia or all to one. Expenses are charged to the general funds or other internal sources (the endowment, or Program Officer funds) unless they can be replaced by external (grant) funds. Any unspent funds are returned to the general funds and do not roll over.

A second page will show the dues revenues and expenditures. These funds may be spent by Divisions with more discretion. All Divisions receive dues from the general pool, based on the total membership and the proportion claiming that Division's affiliation. These come from \$5 per member per year that was added to membership dues in 2013 specifically for the purpose of providing discretionary revenue to Divisions. In addition, some Divisions charge annual dues, including DCPB (\$5), DCE (\$10), and DVM (\$10 full/ \$5 student). The revenues and expenditures page will show both the dues from the general funds and the specific Division dues, as appropriate; this information will be provided clearly, as two separate lines

of revenue. These dues funds, if unspent, roll over to the next year, but do not accrue interest.

The Division Dues page will also show any transactions that reduce the funds, including itemized expenses and balance transfers. For example, if a Division wishes to support one of the endowment funds or an additional student award with funds from their dues, those expenses will be listed and itemized each year. For socials that exceed \$800 in cost, the full cost of the social may include both the \$800 allocation and some supplemental funds from dues provided by the Division.

The Dues page will show an initial balance for each year going back to 2013, the dues and expenses (transactions) each year, and the new balance at the end of each year. Ultimately these pages will be available as Google docs on the web and will have accurate, current data for Division officers.

Division officers received statements of their balances at the beginning of this fiscal year. Because of this change in reporting procedures, the amounts in those reports are tentative and subject to change. Once the new forms are complete and checked for accuracy, they will be made available to the Divisions as soon as possible.

Thank you for your patience as we continue to work to improve our procedures. ■

*Support your
favorite SICB fund.
Click on the
"donations" button
on the home page.*

www.SICB.org



A Note from the SICB Secretary

By Alice C. Gibb, secretary@sicb.org

The other executive officers have covered most of the spring SICB news, so I only have a few quick reminders about the upcoming SICB elections and a call for nominees for awards and lectures for the 2019 annual meeting. But before that, I wanted to once again thank the outgoing SICB secretary, Kathy Dickson. For those of you who don't know her, Kathy is incredibly detail-oriented and conscientious. Her contributions to the Executive Committee and the overall function of the nuts-and-bolts aspects of the society will be sorely missed!

The major business in front of us for the spring of 2018 is the annual SICB elections. This spring, there will be society-wide voting on a new President-Elect, a new Program-Officer-Elect and a new Member-at-Large. The SICB nominating committee has cultivated a great pool of candidates, and you really can't go wrong — no matter who you vote for! You can read the candidate biographies and goals statements in this newsletter. Many of the divisions are also currently selecting new leadership; consult the divisional newsletters for more details. Please stay involved in the process and vote online when we send out the call!

Although the newsletters are the main way we communicate with SICB members before and after the annual meeting, SICB also sends out monthly "Member Updates." If you have an announcement of a job you are looking to fill, an upcoming meeting, or any other news that is of general interest to SICB members, please send it to me at Secretary@SICB.org and I will include it in the next Member Update!

One final bit of business: most of the awards that are given through SICB have nominations due in August. This year, the deadlines for nominations for the **Gans Award**, the **Bartholomew Award**, the **Bern Lecture**, the **Moore Lecture**, and



Submit your proposals over the summer if you want to organize a symposium for the 2020 SICB Annual Meeting in Austin, TX. (Image credit, Wikimedia Commons)

the Morse Award are all due on the **24th of August, 2018**. Details for all of these awards and lecture programs can be found on the SICB webpage at www.sicb.org/membership/awards.php3. As the program officer has already mentioned, symposia for the 2020 meeting in Austin, TX are also due to SICB on the 24th of August!

I hope you all have a productive and satisfying spring and summer, and I thank you in advance for participating in the SICB elections and for submitting excellent award and speaker candidates to be honored at our next annual meeting in Tampa, Florida!

Best wishes, Alice Gibb ■

Donations Report

By Robert Roer, Development Committee Chair, chair.development@sicb.org

Donations to SICB provide needed funds in support of students to attend the annual meeting, grants-in-aid of research, symposia, speakers and recognition of our members. The Endowment is comprised of a number of funds, some named in honor or memory of SICB members, and donors may specify that their contributions be applied to the fund(s) of their choice. We strongly encourage all members of the Society to make a donation in the coming year; no amount is too small and every contribution makes a difference.

This year, the Society instituted a new way to honor or memorialize members without creating a new fund. Donations to the Mangum Fund and the Student Research Fund (GIAR/FGST) may be designated to recognize an individual. For every \$1000 so designated, one of the awards for that fiscal year will be named for the individual. If \$20,000 or more is designated, the named award will be made in perpetuity.

The inaugural named award was a Student Research award in memory of Steve Vogel. Fifty-nine donors contributed \$29,777 to create a Vogel Student Research Award, in perpetuity.

Since 2014, the Society has recognized donors, both through ribbons attached to badges at the annual meeting and by listing donors in the Spring Newsletter. Five levels of giving during the period from the beginning of the 2017 annual meeting in Portland to the beginning of the 2018 meeting in San Francisco (essentially donations made during the 2017 calendar year) are acknowledged here. One hundred and ninety-one individuals donated over \$69,000. This is more than twice as much as last year! On behalf of the Executive and Development Committees, thank you for your generous support. Your contributions have a significant and important impact on the Society.

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Mastering Science on Social Media

By Zen Faulkes, Chair of the Student Postdoctoral Affairs Committee

I love social media. I've done it for a long time and it's been very rewarding for me as a scientist. But social media is tricky to navigate, particularly at transition points in your life. When you do become "Facebook official" with that person you've been dating? Too early, and it just looks creepy. Too late, and it could become a point of contention ("Don't you want people to know we're together?").

Becoming a professional scientist is one of those potentially tricky transitions, made worse by the fact that it can be drawn out over years, from grad student, to post-doc, to entry-level job. You may already have established social media accounts that might not represent your professional aspirations. Or you might

have almost no social media presence. Your supervisor might frown upon your time on social media as something that stops you from generating data.

There can be many rewards if you want to participate on social media as a scientist. You can meet others in your field and develop colleagues and collaborations. There are many cases of people who have published work together because they met via social media, long before they met in person (if ever). To name just one example, a Twitter hashtag game, #DoesItFart, turned into an actual proper, printed book for co-authors Dani Rabiotti and Nick Caruso.

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The following funds received donations to honor the memory of specific individuals.

• Libbie H. Hyman Memorial Scholarship Fund:

Donation by Dianna Padilla to honor Susan Ford.

• John A. Moore Fund:

Donation by Trish Morse to honor Robert Tinker.

• Dorothy M. Skinner Award Fund:

Donation by Don Mykles to honor Dorothy Skinner.

• Dorothy M. Skinner Award Fund:

Donation by Dianna Padilla to honor Susan Ford.

Donations Report

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Diamond (\$500 and up)

Elizabeth Adkins-Regan
David Alexander
Barbara Best
Richard Blob
Karen Burnett
Louis Burnett
Emily Carrington
Tom Daniel
Ken Dial
Richard Emlet
Christopher Guglielmo
Melina Hale
Darwin Jorgensen
William Kier
Mimi Koehl
George Lauder
David Lentink
Catherine Loudon
Rachel Merz
M. Patricia Morse
Dianna Padilla
Sheila Patek
Chuck Pell
Robert Roer
Kenneth Sebens
Jarid Simons
Kathleen Smith
Jake Socha
Frederick Vosburgh
Peter Wainwright
Stephen Wainwright
Mark Westneat

Platinum (\$250-499)

Andy Baxevanis
Kathy Dickson
Judith Grassle
Jon Harrison
Michael LaBarbera
Ignacio Moore
Donald Mykles
Gregory Sawicki
Sherry Tamone
Brian Tsukimura
David Wake
Marvalee Wake
Susan Williams

Gold (\$100-249)

Susan Claire Alberts
Michael Baltzley
Morgan Benowitz-Fredericks
Calhoun Bond
Elizabeth Brainerd
Chuan-Hua Chen
Brandon Creighton
Erica Crespi
Robert Dudley
Frank Fish
Jeffrey Goldman
Michael Hadfield
Elizabeth Harris
Tyson Hedrick
John Hermanson
Sandy Kawano
John Long
Matt McHenry
Duanne McPherson
Kristi Montooth
David Norris
David Norris
Aaron Olsen
John Pearse
Bruno Pernet
Robert Podolsky
Bernard Rees
Mary Rice
L. Michael Romero
Virginia Louise Roth
Nancy Staub
Richard Strathamann
Adam Summers
Nora Terwilliger
Claudia DeGruy Voulgarakis
Allison Welch

Silver (\$50-99)

James Clegg
Monica Daley
Peter deFur
Douglas Fudge
Timothy Greives
Brian Helmuth
Diana Hews
Stuart Humphries
Emily Kane
Diane Kelly

Rosemary Knapp

Daniel Moen
Michele Nishinguchi
Sara O'Brien
Ann Pabst
Marianne Porter
Alexus Roberts
Stephan Schoech
Eric Schultz
William Wilson
Sarah Woodley
Zvi Yaron

Bronze (up to \$49)

Charles Booth
Daniel Goldman
Lisa Hazard
Brandon Jackson
Steven Kempf
Scott MacDougall-Shackleton
Paul Maderson
Marilyn Ramenofsky
Ian Andrew Sherman
Jessica Tingle
Alan Tousignant

Special recognition for individuals who contributed \$1000 or more:

Elizabeth Adkins-Regan
Barbara Best
Louis & Karen Burnett
Emily Carrington & Ken Sebens
Tom Daniel
The Drollingar Family
Charitable Fund - Kenneth Dial
Gans Collections & Charitable Fund, Inc.
William Kier & Kathleen Smith
Rachel Merz
M. Patricia Morse
Dianna Padilla
Sheila Patek
Robert Roer
Jarid Simons
Peter Wainwright
Stephen Wainwright

Mastering Science on Social Media

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Here are six tips to help you bring your science to social media.



Facebook is one popular way to bring science to a social media platform.

1. Social media is like the stock market. The value of your investment is mainly determined by how long you stay in the market, not whether one stock is up or down that day. Watching retweets and website visits can be addictive, but it's easy to get distracted by minor day to day fluctuations. Pay attention to the long-term trends, and be patient in building your social media presence. It will take time.

2. One of the main reasons people will use social media is to promote their own work. Some research shows that papers that are tweeted tend to get more citations. However, online conversations are real conversations — and what makes someone a good conversationalist face-to-face holds true in online environments too. You don't want to be the person who only talks about themselves, only appearing interested in pushing out your latest paper. Don't "hog the conversation" by tweeting your own material, but never responding to others. Conversely, don't just lurk without posting. You need to listen, respond, and start your own topics. All these elements make up social media conversation.

3. There are many platforms, and you are unlikely to develop an equal presence on all of them. You'll probably find that some grow on you over time, and various platforms will come and go. Twitter and

Instagram may be on people's lips today, but Tusk or Ello might become darlings in the future, while today's social media giants might join MySpace in obscurity. The Internet is littered with failed attempts to create "Facebook for Scientists."

4. Because of #3, be willing to put time into activities that might look boring. A personal website or a blog is hardly cutting-edge social media, but these venues can still serve a useful purpose. A personal webpage can serve as a hub for people who search for your name. A blog gives you a platform for longform writing that can be more powerful than threaded tweets.

5. While it is valuable to keep in mind that you are developing social media as a professional participating in a scientific community, you should also be willing to show some of yourself, beyond just your work. If you are a fan of something recreational, it's perfectly okay to show that part of yourself occasionally. Exercise, music, an interest in social justice — these are all things that make us well-rounded and interesting people who are worth talking to, and not one-dimensional people. Social media, in my estimation, works best when you follow people, not topics.

6. Tweeting from a conference — such as the SICB meeting — is a great way to build an audience! Research conferences, by definition, have a built-in audience for people who are interested in the kind of science you do. People who cannot attend genuinely appreciate being able to follow from afar. David Shiffman has compiled some best practices in the publication: "Twitter as a tool for conservation education and outreach: what scientific conferences can do to promote live-tweeting" (Shiffman DS. 2012. *J Environ Stud Sci* 2: 257. <https://doi.org/10.1007/s13412-012-0080-1>)

If you're still unsold on the value of social media, just ask if you think going to a scientific conference is worthwhile. If you think going to a conference is worthwhile, then just think of the science on social media as a conference that goes on every day — and doesn't require a plane ticket and a TSA pat-down to participate in! ■

Visit the SICB home page

www.SICB.org

***to view the stories written
by students in the Magnum
journalism program about
presentations at the
2017 annual meeting.***

Broadening Participation Committee Report

By Stacey Combes, Chair

The goal of the Broadening Participation (BP) committee is to increase the diversity of SICB and the field of integrative biology at all career stages, in terms of gender/gender identity, sexual orientation, race/ethnicity, ability/disability, and socioeconomic background. The BP committee works to increase the diversity of SICB by providing travel awards to help underrepresented attendees defray the costs of attending the annual meeting, hosting a workshop and an evening social at the meeting, and organizing a one-on-one meeting mentorship program. These events and programs are open to all SICB members.

The Broadening Participation Committee met during the annual meeting in San Francisco to discuss committee membership, expansion of the BP Meeting Mentorship program, and scoring guidelines for the BP travel awards. Throughout the coming year, the committee will continue to benefit from the participation of members Clare Adams, Brian Tsukimura, Karen Maruska, Gabriel Rivera, Sharlene Santana, Walter Wilczynski, and Rita Mehta, who will be taking over as chair of the BP committee following the 2019 meeting. Maya DeVries will be stepping down from the committee after adding her valuable perspective as the first post-doctoral member appointed to

the committee, and two new members — Nick Burnett and Kaushik Jayaram — will be joining the committee this year.

Broadening Participation Travel Awards bolstered by the Gans Collections and Charitable Fund



The BP Committee was fortunate to receive a generous donation in 2017 from the Gans Collections and Charitable Fund, Inc., a foundation established by renowned vertebrate morphologist and functional anatomist Carl Gans, to provide additional support for our travel award program. To learn more about the foundation and additional opportunities for conference travel grants, please visit carlgans.org.

This donation allowed the BP committee to nearly **double** the number of travel awards given for the 2017 meeting! The committee offered travel awards of up to \$500 to 39 applicants, including 28 women, 24 applicants of Hispanic/Latino descent, 8 of Black/African American descent, and 2 of Native American/

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Recipients of a 2018 Broadening Participation Travel Award were honored during an evening social at the ThirstyBear Organic Brewery in San Francisco.

Broadening Participation Committee Report

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Pacific Islander descent. Awardees consisted of 9 undergraduates, 1 post-baccalaureate researcher, 4 MS students, 15 PhD students, 8 post-docs, 1 assistant professor, and 1 associate professor. Travel award recipients were welcomed at a breakfast Meet-and-Greet on January 4th, and their accomplishments were celebrated with Spanish tapas and organic beer at a lively BP social, held on Saturday January 6th at the ThirstyBear Brewery.

NEW Broadening Participation Meeting Mentorship Program at the 2018 meeting

The Broadening Participation committee organized a BP Meeting Mentorship program, which was opened to the broader SICB community for the first time this year. The program provides all SICB members who are underrepresented and/or who enhance diversity within their field, region, or institution with the opportunity to be matched with a "meeting mentor"—a more experienced student, post-doc, or faculty member who has attended SICB several times. Mentors were able to help their mentees make the most of the meeting, offer tips on which sessions and events to attend, provide career-related advice, and/or attend events with their mentees to help expand their professional network at SICB.

Response to the program was overwhelming — 345 SICB members indicated interest on their registration forms and 185 members completed the matching survey. The BP committee was able to make 79 mentor-mentee matches, resulting in 158 SICB members participating in the program. Mentees at all career stages were matched to mentors, with mentees consisting of 28 undergraduates, 1 post-baccalaureate researcher, 5 MS students, 34 PhD students, 8 post-docs, and 3 assistant professors.

The committee will continue refining the matching process and improving the program for the 2019 meeting in Tampa. We encourage all SICB members to consider taking part in

this program and offering their time to serve as a meeting mentor — the experience of direct, one-on-one mentorship can have a huge impact on a younger member's experience of the SICB meeting, particularly for first-time attendees. In addition, we strongly encourage any members who completed the survey but were not matched at the 2018 meeting to apply again for 2019 meeting. The matching survey and additional information about the program will be posted next fall on the Broadening Participation web page at www.sicb.org/meetings/bp.

Mentoring Workshop at the 2018 Meeting in San Francisco

Approximately 50 SICB attendees took part in the BP workshop at noon on Saturday, January 6th, entitled "*Beyond Traditional Mentors: Mentoring Moments and Networks*." This interactive workshop was led by Dr. Claire Horner-Devine, a consultant and workshop leader who focuses on professional development programs for early career scientists from underrepresented groups in STEM. Participants completed mentoring-maps and assessed areas where they are receiving the mentoring they need and areas in which they need to develop more mentoring relationships. They developed a set of tools to pursue mentoring in areas where they want support and a plan to develop their mentoring networks, with concrete steps to take in the weeks following the workshop. 86% of those who attended the workshop said they would recommend it to others, and many commented that they would like to see mentoring become a topic that is more consistently addressed by SICB. For those who were unable to attend the workshop, we have posted presentation materials, mentoring worksheets, and other references on the Broadening Participation web page at www.sicb.org/meetings/bp.

We welcome the participation of *all* SICB members at Broadening Participation events, and we look forward to hearing your comments and suggestions for broadening participation in our society. If you have any ideas or comments, please contact [chair, bpc@sicb.org](mailto:bpc@sicb.org). ■



SICB Program Officer's Report

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events, we certainly try to balance many factors when we plan the meeting, and major priorities will continue to be meeting affordability, safety and accessibility for all of our members.

Related to issues of accessibility is SICB's continued interest in making the meeting family-friendly. The San Francisco location was viewed by most as somewhat (32%) or very (19%) family friendly, although some members (7%) rated it as not family-friendly. In an effort to support parents who chose to bring children to the meeting and alleviate barriers that may be faced by some of our members, we once again subsidized child care during the day. We received many good suggestions on how we might make the conference more family friendly, included offering evening childcare options so that parents can attend plenary lectures, socials and society meetings, having off-site activities for kids, facilitating coordinated activities among parents, and providing information on family friendly attractions. As you may have read in the January update from President Lou Burnett, he has appointed an ad hoc committee, chaired by Member-at-Large Creagh Breuner, to assess SICB's offerings to support families attending the annual meeting and to determine what we can do better and where we can do more.

SICB Executive Officers worked hard over the last year to refine the Meeting Code of Conduct based on member feedback from last year's survey and throughout year. We were pleased to see that the majority of respondents (70%) indicated that they had read the Code of Conduct. Specific comments on the Code were overwhelmingly positive, with many noting that they were pleased the society had taken this step.

Social media is continually becoming more important for highlighting interesting science and connecting with colleagues and the public at the meeting. Based on survey results, Twitter usage is increasing, but fewer people are using Facebook and Instagram compared to last year (see Figure 2).

Although a significant number of respondents did not use the meeting app, for those folks who did (74% of respondents), 39% found it to be very useful, whereas 26% found it only marginally useful (see Figure 3). Last year, more folks found it to be only marginally useful, suggesting that the improvements that were made over the 2017 app improved usability. We did receive a lot of specific suggestions to make it more user-friendly, which we will take into consideration. Access to free wifi continues to be of interest for our attendees, with 63% of respondents indicating that they would be willing to have registration fees increase by \$25 to provide this service. There was more support for this potential additional expense compared to last year, when only 56% of respondents indicated they would support this increase.

Student participation at SICB continues to be strong, and we had over 1100 students (high school: 3; undergraduate: 375; graduate: 727) register for the meeting. This is just under half (44%) of all registered attendees! Many of these students were able to attend with support from our travel awards programs for their annual meeting attendance. One notable difference in response from the previous year was the in the percentage of Full Member respondents who brought students to the meeting: 54% in 2018 versus 80% in 2017. It is not clear why this marked drop occurred, so this is definitely something we will keep an eye on in the future. Nevertheless, of the graduate students who responded, 83% indicated that they would become Full Members in the future, suggesting that they had an positive overall experience. The divisional Best Student Paper competitions continue to be an important component of the annual meeting, and 65% of respondents indicate that they have attended at least one Best Student Presentation session for the divisions who organize them. For these divisions, it seems that this is a great way to highlight outstanding student research.

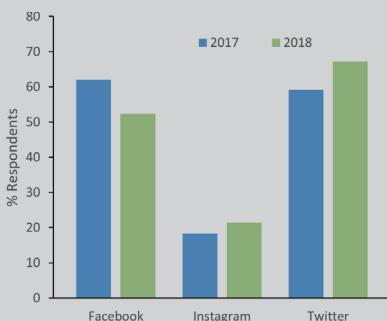


Figure 2: Percentage of meeting attendees who indicated that they posted to Facebook, Instagram, or Twitter during the 2018 meeting among SICB members who completed the Annual Meeting Survey.

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SICB Program Officer's Report

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Many thanks to the organizers of the 11 symposia held in San Francisco, including Erik Sperling, Kevin Kocot, David Williams, Natalie Holt, Megan Porter, Lauren Sumner-Rooney, Sara Elshafie, Stuart Sumida, Bram Lutton, Brett Aiello, Jessica Fox, Gary Gillis, Maren Vitousek, Michele Johnson, Martha Merson, Nick Hristov, Louise Allen, Duane McPherson, Billie Swalla, Karine Salin, Wendy Hood, Jenny Ouyang, Davide Dominoni and Julia Sigwart. The symposia are an important component of the annual meeting and it takes a lot of effort to pull these off. Papers from the symposia will be published in an upcoming issue in ICB.

On the topic of SICB symposia, it is not too early to start planning for the 2020 meeting in Austin, TX. The deadline for symposium proposals for the 2020 Austin meeting is August 24, 2018. SICB welcomes symposium proposals from folks at all career stages, including junior faculty, postdocs, and graduate students. If you are thinking about organizing a symposium for 2020, contact your divisional program officers to discuss your ideas and be sure to ask for suggestions from your PO that might help ensure broad appeal across the Society. I am also happy to answer questions and give feedback (email me at programofficer@sicb.org). There are SICB SYMPOSIA POLICIES AND GUIDELINES published on the SICB website that you should read as you start to formulate your ideas, and you can also find the official Call for 2020 Symposia on the SICB Meetings website. For the 2019 Tampa meeting, we have an exciting four days of symposia planned out:

2019 Tampa, FL, Annual SICB Meeting Symposium Schedule

January 4

1. Integrative plant biology (SICB Wide). Organizers: Matt Ogburn, Beth Brainerd, Erika Edwards; Sponsors: DAB, DCB, DCE, DCPB, DEDB, DEDE, DEE, DIZ, DNNSB, DPCB, DVM, AMS, TCS

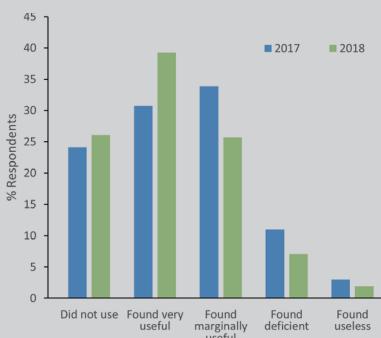


Figure 3: Evaluation of the usefulness of the Meeting App in 2017 and 2018 among SICB members who completed the Annual Meeting Surveys.

2. The scale of sickness: how immune variation across space and species affects infectious disease dynamics. Organizers: Daniel Becker, Laura Schoenle, Cynthia Downs, Lynn Martin; Sponsors: DAB, DCE, DEDE, DEE

3. Playing with power: Mechanisms of energy flow in organismal movement. Organizers: Jeffrey Olberding, Michael Rosario, Stephen Deban; Sponsors: DCB, DNNSB, DVM

January 5

4. Adaptation and evolution of biological materials (SICB Wide). Organizers: Rob Campbell, Mason Dean; Sponsors: DCB, DCPB, DEDB, DEE, DIZ, DVM, AMS

5. Stress phenotype: linking molecular, cellular, and physiological stress responses to fitness. Organizers: Haruka Wada, Britt Heidinger; Sponsors: DAB, DCE, DCPB, DNNSB

6. Beyond the powerhouse: integrating mitonuclear evolution, physiology, and theory in comparative biology. Organizers: Justin Havird, Geoffrey Hill; Sponsors: DCPB, DIZ, DPCB, TCS

January 6

7. Comparative evolutionary morphology and biomechanics in the era of Big Data (SICB Wide). Organizers: Martha Muñoz, Samantha Price; Sponsors: DCB, DCE, DEDB, DEE, DNNSB, DPCB, DVM

8. Multifunctional structures and multi-structural functions: Functional coupling and integration in the evolution of biomechanical systems. Organizers: Stacy Farina, Emily Kane; Sponsors: DCB, DEDB, DVM, AMS, TCS

9. Chemical responses to the biotic and abiotic environment by early diverging metazoans revealed in the post-genomic age. Organizers: Paul Long, Laura Mydlarz, Beth Okamura; Sponsors: DEDE, DNNSB, DPCB, AMS

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SICB Program Officer's Report

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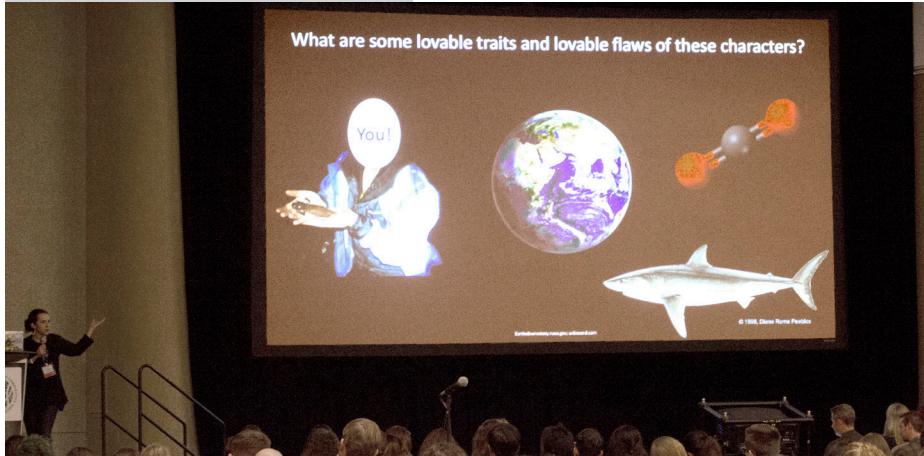
Downtown Tampa, the location for the 2019 Annual SICB meeting
(Image credit: Wikimedia commons)

January 7

10. The world is not flat: Accounting for the dynamic nature of the environment as we move beyond static experimental manipulations (SICB Wide). Organizers: Timothy Greives, Rachel Bowden; Sponsors: DAB, DCE, DCPB, DEDE, DEE, DNNSB
11. Allometry, scaling and ontogeny of form. Organizers: H. Frederik Nijhout, Kenneth McKenna; Sponsors: DEDB, DIZ
12. The path less traveled: Reciprocal illumination of gecko adhesion by unifying material science, biomechanics, ecology, and evolution. Organizers: Tim Higham, Alyssa Stark, Anthony Russell; Sponsors: DCB, DEE, DVM

SICB Public Affairs Committee

By Thomas Sanger, Chair, Chair.PAC@SICB.org



In addition to the symposia, there will be contributed talks, posters, and workshops to enliven the entire four-days of the meeting. The meeting will open with a plenary talk on Jan 3 by Dr. Peter Wainwright, Distinguished Professor of Evolution and Ecology, University of California, Davis, and Past President of SICB. Dr. Wainwright's research focuses on the origins and consequences of functional diversity, including body shape diversification in fishes, the role of functional innovation in the history of fishes, diversification of fish feeding mechanisms, and general principles in morphological evolution. Check out the 2019 SICB meeting webpage for updates on the venue and program throughout the coming year. And you can look ahead to see the future venues; we have confirmed meeting locations through 2023.

Finally, I want thank our outgoing Past-Program Officer Rick Blob for his service and dedication to SICB. Following in his footsteps will be hard, but he has been a great resource for me as I have stepped into the role of Program Officer. Assembling the annual meeting requires a lot of effort, and the work invested by dedicated people like Rick, Lori Strong and the rest of the management staff at Burk, Inc., and the Division Program Officers has already made the experience less daunting. We have a great team, and I am looking forward to working with everyone to make SICB 2019 in Tampa a success. ■

The SICB Public Affairs Committee (PAC) has had an exciting winter. At the annual meeting in San Francisco, the PAC hosted an exciting storytelling workshop with over 400 participants in attendance. This workshop was organized by PAC member Sarah ElShafie in collaboration with Pixar Animation Studios. The message ElShafie brought to the workshop was: "Facts do not speak for themselves, but a good

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"What are some lovable traits and flaws of these characters?"

SICB Public Affairs Committee

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story makes them meaningful and memorable." Among the important take-home messages, ElShafie reminded a capacity audience that the same elements that make a great animated movie will aid in telling a memorable scientific story that can reach broad audiences. For example, a memorable story has characters with both lovable traits and flaws, an emotional climax, and a storyline. Perhaps if we better use these themes in our future outreach activities, we will improve the impact of our efforts and the perception of science in society.

Following the storytelling theme, the PAC also hosted a storytelling challenge by asking members to tell us their most harrowing lab fail. The PAC evaluated all of the entries and chose the stories those with the most compelling story arc. First place went to Katie Voss, who told the story of a water-spout-spraying "frenemy" octopus. Second place went to Ryo Okubo, with a seemingly uncomfortable story about bear spray. We awarded third place to Katie Leitch, who told a story about apple juice bombs. The top eight videos can be still be watched on SICB's Twitter and Facebook pages. Don't



Shayle Matsuda hosted a Sketchnoting workshop at the Annual Meeting in San Francisco]

miss them! Thanks to PAC member Sharri Zamore for leading this competition and compiling the videos. Be on the lookout for a story booth challenge at the annual meeting next year.

The PAC is also excited to announce the theme of our workshop for the 2019 meeting in Tampa. In collaboration with a professional acting coach, PAC member Jimmy Liao is organizing an acting-based workshop meant to make us more engaging speakers within our classrooms, our lectures, and during our outreach activities. Keep an eye out to the fall newsletter for more details on the details of this workshop.

The PAC would once again like to thank Shayle Matsuda for hosting a second Sketchnoting workshop at the San Francisco meeting. This popular workshop teaches people how to take visual notes through sketching or doodling during a talk. This activity helps with retention, focus, and it is really fun! In addition to the direct benefits to the workshop participants, the sketchnotes that are created during the meeting brighten up our Twitter feed immensely.

In closing, the PAC would like to thank our outgoing chair, Molly Beard, for six years of dedicated service to SICB. Under her guidance, the reach of the PAC has grown considerably. She leaves the PAC in a great position to continue growing in the future. ■



Katie Voss explains her #LabFail with an octopus!

Educational Council Report

By Chair, Bram Lutton,
Chair.EdCouncil@sicb.org

The Educational Council is excited to announce that our role in assisting with the development of the updated SICB web page is to gather teaching and research materials from *YOU*, our members! We have begun efforts to build upon the existing Research and Education Resources (RER) database and to construct a user-friendly mechanism for acquiring helpful resources, whether for *integrative and comparative biology*-focused research methods or teaching methods instrumental in our STEM classrooms and laboratories. To learn more, or to offer *ICB*-related research and educational materials, please e-mail the Educational Council Chair at Chair.EdCouncil@sicb.org.

Science Communication and Education-Focused Symposia:

San Francisco was not just an exciting venue this year for the reasons it *always* is — in addition, a wonderful opportunity was presented to the Educational Council for the 2018 meeting by Sara ElShafie, a graduate student at UC Berkeley and the UC Museum of Paleontology, and Dr. Stuart Sumida, of California State University, San Bernardino. The symposium these education innovators devised offered the potential to entertain and educate the entire society by illustrating how scientists can (and should!) communicate with non-expert audiences through narrative. Some of the most delightful entertainers in industries from film (Pixar, Disney, Lucas Films, Industrial Light & Magic, Stamen Design, DreamWorks Feature Animation), the gaming industry (Double Fine Productions), the museum industry (Smithsonian National Museum of Natural History) and others (BIOTA non-profit, the American Institute of Physics) were made available to our members, and countless ideas were provided to improve how we can better communicate with the public and stimulate the transition to a more informed society. Of course, the Ed Council jumped at the opportunity to support this symposium,



Participants produced a visual summary of a scientific concept during the 2018 Sketchnotes workshop.

Science Through Narrative: Engaging Broad Audiences, as did many others throughout the society (DAB, DCB, DCE, DEDB, DEDE, DEE, DIZ, DNNSB, DVM, AMS). And, after an intense effort on the part of Sara and Stuart, the symposium turned out to be the greatest of successes. To learn more, take a peak at the symposium web page (<http://sicb.org/meetings/2018/symposia/narrative.php>), look for articles written for an upcoming issue of SICB's journal, *Integrative and Comparative Biology*, and have a glance at some fabulous "sketchnotes" by Shayle Matsuda (<http://sicb.org/meetings/2018/notetaking.php>). For more about "sketchnotes," please read on...

And that was not all for education related symposia in 2018 (and we're *always* looking for more ideas to support!). Another fabulous day of talks was made available by Dr. Louise Allen, of Winston Salem State University, Dr. Nickolay Hristov, at the Center for Design Innovation, and Martha Merson, of TERC, a STEM teaching and learning think-tank in Cambridge, MA, and Winston-Salem State University. This symposium offered

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Educational Council Report

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scientists the opportunity to consider a powerful way to connect with the public, one that multiplies and amplifies their outreach efforts. Indeed, this informative symposium demonstrated how networks of informal educators in museums, protected lands, and zoos can capture the public's interest in scientific research. The speakers described relevant, inspiring, and feasible projects, cases, and models, the role of visualizations, professional development, exchange of stories, and agreements that support collaborations between scientists and informal educators successful in making cutting-edge scientific research on public lands visible and interactive for their visitors. It was another great success for education-based symposia, to say the least.

2018 TALX Workshop:

The goal of the SICB *Teaching and Learning Workshops* is to take advantage of the broad teaching expertise within SICB by giving members a forum to share their most innovative ideas for teaching. The SICB Educational Council established *TALX* as a moniker for these popular teaching and learning workshops because it emphasizes the multidisciplinary nature of our society, in the sense that "X" is replaced with a

different discipline or topic each year. These roundtable-style workshops are designed to address the needs of SICB members with respect to *understanding* innovative pedagogies that have been developed for science classrooms and laboratories, *implementing* new methods in the classroom, and *engaging* academic administrators so that they understand and support utilization of novel approaches to teaching.

This year at the workshop, participants were rewarded with perhaps the most dynamic and exciting activities and round-table discussions of our education workshop to date. Led by Larry MacPhee of Northern Arizona University, this year's workshop focused on easy "*Do it Yourself (DIY) Science*." In the world of science education one of the significant challenges is that, while instructors are generally well prepared academically, and the textbook is usually pretty good, they often lack a collection of inexpensive, reliable, and interesting lab activities that can reinforce the concepts introduced during lecture. Developing successful lab activities can be challenging, especially when one needs to do so on a budget, or in support of online instruction. This hands-on workshop enabled participants to conduct several 15-minute activities, each covering an important topic in biology. The

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SCIENCE and *Sweets!*



Biology on a Budget:

Sharable DIY Bio Lab Activities

*90 minutes of food, fun
and hands-on activities*

*For the San Francisco meeting, the Education Council hosted dessert
and a hands-on workshop entitled "Biology on a Budget".*



Lab materials can be bought at grocery stores, drug stores and even on Amazon.com, as demonstrated by science educator, Larry MacPhee.

Educational Council Report

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activities were designed to utilize low cost, easy to obtain materials that anyone can safely conduct on their own, at home or in the classroom, in small groups. Larry's activities and lesson plans can be found here: www2.nau.edu/lrm22/lessons.

And how did the workshop go...? Well, feedback from participants included such comments as "I wish we could have one of these workshops every year!" and "Thanks Larry, that was *by far* the best workshop I've ever attended."

So members, we want to hear your ideas! To begin coordination of each annual workshop, applications should include the following specific information, along with any additional logistical considerations they foresee: space/location, timing, invited participants, refreshments, and an itemized budget. Past TALX workshops have generally been 1.5-2 hours in length, in the evening, and they generally include refreshments; however, this is an informal and flexible opportunity and *all* ideas are welcome! The Chair of the Educational Council may authorize funds to help in support of the TALX workshop at each year's meeting. Please send application materials to the Chair of the Educational Council (EdCouncil@sicb.org). **The deadline for applications is May 1st, 2018.**

Katayoun Chamany gave an outstanding Moore Lecture:

The John A. Moore Lectureship was established in 1990 by the SICB Educational Council. The aim of this lecture series is to invite a nationally-recognized speaker who does not generally attend the SICB annual meeting to offer the society a new perspective on science education. SICB members lucky enough to stay for the final society-wide talk of 2018 were treated to a wonderful Moore Lecture by Dr. Katayoun Chamany, "From STEM to STREAMD: Adding Responsibility, Arts, and Design for Inclusive Learning". Dr. Chamany is the Mohn Family Professor of Natural Sciences and Mathematics and Associate Professor of Biology at the New School in New York City. For many years, in order to promote science education

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Dr. Chamany, the Moore lecturer in 2018, has expanded the concepts underlying STEM education.



Bill Hoesel has trained many students with his Southern California Research Program and was recognized for his outstanding efforts with the Morse Award in January 2018. This year, the award was presented to Bill by Trish Morse herself!

Educational Council Report

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reform, Dr. Chamany has developed seminars, workshops and educational materials that reflect an interactive and case-based method of teaching and learning with a strong emphasis on infographic thinking (<https://www.fastcodesign.com/1668987/why-infographic-thinking-is-the-future-not-a-fad>). This tied in beautifully with the “sketch-noting” workshop put on by our own highly enlightened and talented graduate student, Shayle Matsuda, from the Hawai‘i Institute of Marine Biology and the University of Hawai‘i at Mānoa. Indeed, Dr. Chamany’s work illustrated for our members how biology can be truly accessible and relevant to everyone, and why a basic understanding of biology is, intuitively for us but not everyone, *necessary* for an optimal democratic society.

The Moore Lecture is scheduled on the final day of the annual conference and is a 45 minute-long presentation. Nominations should include a curriculum vitae, a one-page description of the nominee’s contributions to science education, and any additional supporting materials related to the nominee’s achievements in science education, along with up to three recommendation letters. A file including nominated candidate materials will be kept for consideration for a total of three years, and candidates can update any component of the file before consideration for that year’s award. The Chair of the Educational Council may authorize funds to help support the winner’s attendance at that year’s meeting. Please send nominations for this award to the Chair of the Educational Council (Chair.EdCouncil@sicb.org). **The deadline for nominations is 24 August 2018.**

Bill Hoesel receives 2018 Morse Award

While the SICB Educational Council had a number of excellent candidates for the 2018 M. Patricia Morse Award for Excellence and Innovation in Science Education, Dr. Bill Hoesel of the California State University, at Fullerton (www.fullerton.edu/biology/people/faculty/hoesewj.php) was

a standout nominee for the award. Dr. Hoesel has developed and led an innovative research and mentoring program to prepare numerous students, many from groups underrepresented in science, for success in biological careers. Thanks to Dr. Hoesel’s efforts, the Southern California Ecosystems Research Program has been continuously funded since 2001 with more than \$2 million in National Science Foundation grants and internal funding — this has had a significant positive impact on participants over the years. Dr. Hoesel has been an active science-education teacher, focused for decades on investigating how students learn. His research programs have involved numerous undergraduate and graduate students, many of whom have gone on to very successful careers in biology research and education. Bill, we all wish you once again a hearty *CONGRATULATIONS!*

The M. Patricia Morse Award for Excellence and Innovation in Science Education is an annual prize awarded to a *SICB member at any career stage* for significant achievement in science education. This award honors the achievements and contributions of M. Patricia Morse, President of SICB in 1985, to the Society, especially in the area of education. The SICB Educational Council will accept and evaluate applications as well as nominations for this award. Nominations should include a curriculum vitae, a one-page description and any supporting materials related to achievements in science education, and three letters of support. In lieu of an oral presentation, awardees are expected to write a brief article for the SICB newsletter or journal describing their achievements or any important aspect of science education. Each year’s winner will be recognized prior to the introduction of the Moore Lecturer, and the Chair of the Educational Council may also authorize funds to help support the winner’s attendance at that year’s meeting. Please send nominations for this award to the Chair of the Educational Council at Chair.EdCouncil@sicb.org. **The deadline for nominations is 24 August 2018. ■**



Melina Hale, candidate
for President-Elect.

Executive Committee Candidates

(in alphabetical order)

President-Elect Candidates

Melina E. Hale

Current Position: William Rainey Harper Professor of Organismal Biology and Anatomy and the College and Vice Provost for Academic Initiatives, University of Chicago, IL; Co-Interim Director, The Marine Biological Laboratory in Woods Hole, MA.

Education: B.S. Duke University (1992); Ph.D. University of Chicago (1998); Postdoctoral Fellow State University of New York at Stony Brook (1998-2001); Grass Fellow, The Marine Biological Laboratory in Woods Hole, MA (2000).

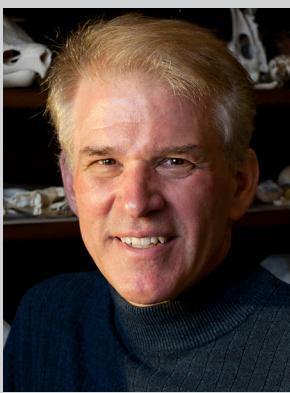
Professional Experience: Assistant, Associate and Full Professor, University of Chicago (2002-present); Defense Science Study Group Fellow, Institute for Defense Analysis (2006-2007); National Academies Education Fellow in the Life Sciences (2009-2010); Dean for Faculty Affairs, Biological Sciences Division, University of Chicago (2014-2016); Vice Provost for Academic Initiatives (2016-present); Co-Interim Director, the Marine Biological Laboratory, 2017-2018.

SICB Activities: Member since 1992; Member of the Editorial Board (2003-2008); Chair of the Division of Comparative Biomechanics (2015-2017).

Other Memberships: AAAS; Society for Neuroscience.

Research Interests: Biomechanics and neurobiology of animal mechanosensation and movement; Development and evolution of neuromechanical systems.

Statement of Goals: This is a particularly exciting time to be an integrative and comparative biologist. Experimental tools and techniques developed for model organisms can now be applied across biodiversity providing new, powerful approaches to integrative and comparative questions. The expertise across our community in organismal biology, evolution, ecology and other fields is crucial as we enter what has been called a renaissance of biological exploration. SICB has important roles to play at this juncture to contribute a strong voice in the broader biological sciences community and advance the society's mission of fostering research, education and outreach. There are several goals that are particularly important to me and which I would focus on if elected president: (1) Champion and develop mechanisms to increase accessibility to new research tools and techniques for all scientists, (2) Support and grow SICB's outreach efforts in host cities of the annual meetings and more broadly, (3) Continue discussions of grand challenge-scale questions and the research models for achieving them, such as large collaborative efforts that span many labs and disciplines, which are more common in other fields, (4) Advocate for the application of integrative and comparative approaches across the biological sciences and for the need to educate scientists with these perspectives and tools, and (5) Grow the endowment to support students, outreach activities and other goals. SICB has been formative in my life and career, as I know it has been in many of yours. I am grateful for the SICB community and to have opportunities for us to work together to strengthen the Society and further its mission.



Stephen Secor, candidate
for President-Elect.

President-Elect Candidates

Stephen Secor

Current Position: Professor of Biological Sciences, University of Alabama

Education: B.S. SUNY College of Environmental Science & Forestry (1980); M.S. University of Oklahoma (1985); Ph.D. UCLA (1992); Postdoctoral Fellow, UCLA School of Medicine (1992-1997).

Professional Experience: Assistant Professor, Department of Biology, University of Mississippi (1998-2001); Assistant through Full Professor, Department of Biological Sciences, University of Alabama (2001 – 2018); Associate Editor, Physiological and Biochemical Zoology (2011-2018) Editorial Board, Physiological and Biochemical Zoology (2004 – 2010), International Journal of Zoology (2008 – 2013).

SICB Activities: Member for over 25 years; George Bartholomew Young Investigator Award (1996); Chair, Nominating Committee, DCPB (2009); Chair, George Bartholomew Award Committee, DCPB (2009-2012); Chair, Nominating Committee, DCPB (2013); Chair, DCPB (2014-2016).

Other memberships: American Physiological Society

Research Interests: Evolutionary and integrative mechanisms that underlie the flexibility of tissue form and function. Adaptive interplay between feeding habits and the capacity to regulate gastrointestinal performance. Cellular and molecular mechanisms responsible for the modulation of intestinal structure. Evolution of gene programs for shared phenotypic responses. Discovery of circulating factors in snakes that trigger tissue hypertrophy in mammals.

Goals statement: Foremost, I am honored to be nominated for President of SICB, a society that I am truly passionate about. I joined and started attending meetings back in the days of ASZ when meetings were held between Christmas and New Year's.

Except for a one-year absence while moving in 1999, I have been able to attend each meeting since 1992. Over that time, I have seen the society grow in leaps and bounds in membership, meeting attendance, financial strength, and leadership. As Chair and Past-Chair of DCPB, I have been fortunate to work with, and learn from, a trio of fantastic Presidents: Billie Swalla, Peter Wainwright, and, currently, Lou Burnett. As president of SICB, I will continue to strengthen our efforts to foster the involvement and development of students and young scientists and the participation of underrepresented scientists. I will focus our efforts to ensure that our yearly meetings continue to be second to none in providing both an affordable and highly engaging venue for young scientists. Likewise, I will emphasize that our meetings are attractive to a diversity of scientists, national and international, for their location, affordability, and integrative and outstanding programs. I will promote our programs to be highlighted by symposiums, include ample opportunities for talks and posters, and devote resources to enhance social events. Working with each division, I will strive to increase their endowments to achieve the financial security necessary for their support of awards and symposiums. I look forward to working with our amazing members to promote our journals, the Education Council, and the Broadening Participation and Public Affairs Committees. Living in Alabama has compelled me recently to become personally involved with state politics and elections. One of my priorities as SICB President will be to amplify our collective voice and influence as educators, scientists, and stewards of our environment to advocate to federal agencies and administrations greater support for science education, research funding, and environmental protection. I am very dedicated to SICB and enthusiastic of the prospect of serving as your President, thank you.



Jennifer Burnaford, candidate
for Program Officer-Elect.

Program Officer-Elect Candidates

Jennifer L. Burnaford

Current Position: Associate Professor of Biological Science, California State University, Fullerton (CSUF).

Education: B.A. Dartmouth College (1992), Ph.D. Oregon State University (2001), NSF International Postdoctoral Fellow Arizona State University/Intercultural Center for the Study of Deserts and Oceans, Puerto Peñasco, Mexico (2001 – 2003).

Professional experience: Visiting Instructor, University of Washington Friday Harbor Laboratories (2003); Visiting Assistant Professor, University of Puget Sound (2003 – 2009); Assistant Professor, CSUF (2009 – 2015); Associate Professor, CSUF (2015 – present)

SICB activities: Member since 2000 (DEE, DIZ). Member-at-Large: 2015-2018. Dorothy Skinner Award Committee: Member 2016, Chair 2017. Libbie Hyman Scholarship Committee: Chair 2010 – present. DIZ Nominating Committee: Chair 2015. DIZ Student Poster Judge: annually.

Other memberships: Phycological Society of America (appointed to Science and Public Policy Committee 2011 – 2013), Society for the Advancement of Chicanos and Native Americans in Science, Western Society of Naturalists.

Research Interests: Plant-Herbivore Interactions, Physiological & Community Ecology, Habitat Modification, Invasive Species.

Goals Statement: I am strongly committed to all three prongs of SICB's mission to foster "research, education, and public awareness." I attended my first SICB meeting as a graduate student, and, as I increase my level of service, I become more inspired by our members and more eager to engage and give back. In three years on the Executive Committee as Member-at-Large, I gained a new perspective on the position of Program Officer, which I see as an exciting opportunity to work with members in all divisions to support and help develop forward-thinking meeting programs that inspire interaction across study systems and sub-disciplines and engage scientists from all career stages. As Program Officer, I would seek out new ideas and perspectives to support and integrate the full spectrum of activities at the annual meetings including symposia, oral presentation and poster sessions, professional development and networking opportunities. I would work to build a diverse community and increase access to our meetings (e.g., through on-site childcare initiatives and bolstering programs that enhance the student experience, such as the Broadening Participation Committee and student awards). I would work with the Public Affairs Committee to reach out through traditional and social media to inform potential members, lawmakers, and voters about our science and its relevance to their lives. I would strive to build upon our strong integrative and interdisciplinary foundation to expand our membership (e.g., through support for the newly conceived and not yet finally named Division of Plant & Algal Biology). SICB has a dynamic and important role in a changing environmental and political landscape, and I look forward to the opportunity to work with members from all divisions to build community and a strong future.



*Jake Socha, candidate for
Program Officer-Elect.*

Program Officer-Elect Candidates

Jake Socha

Current Position: Associate professor, Department of Biomedical Engineering and Mechanics, Virginia Tech, Blacksburg, VA.

Education: Postdoctoral Fellow, Argonne National Laboratory (2004-2007). Postdoctoral researcher, Field Museum of Natural History (2003-2004). Ph.D. in Organismal Biology and Anatomy, University of Chicago (1996-2002). B.S. in Physics and Biology, Duke University (1990-1994).

Professional Experience: Associate Professor, Virginia Tech (2014-present); Assistant Professor, Virginia Tech (2008-2014); Teacher and science department head, Centerville High School, Centerville, Louisiana (1994-1996); Teach For America corps member (1994-1996).

SICB Activities: I was the Program Officer for the Division of Comparative Biomechanics from 2015-17. I was a member of the Public Affairs Committee (PAC) for one year and then served as the PAC Chair for five years, from 2010-2014. As Chair, I founded the Student Journalism Program and oversaw the transition to Newswise press releases for the society, and served as Editor for both programs. I have also run the DCB's Best Student Paper program since 2011 and helped to transform the program to the new session-based format seen in the past few years.

Other Memberships: Sigma Xi, AAAS.

Research Interests: Comparative biomechanics of locomotion in vertebrates and internal flow production in insects. Generally, my lab is interested in fundamental questions of how animals function mechanically, and we work on topics ranging from gliding in flying snakes and water-hopping in frogs to tracheal ventilation, circulation, and liquid feeding in a broad range of insects. Find our lab at: www.thesochalab.org.

Goals Statement: To me, SICB is a grassroots organization — its strength derives from its members. As SICB Program Officer, I will work hard to guide the programming so that it responds best to the needs of our people. This means innovating to bring in new ideas, yet keeping components in place that are known to make people happy. From my experience with as a program officer for DCB, I have seen that the conference is a giant puzzle with lots of constituencies to balance. In some sense, good programming is like a good sports referee — best when you don't notice them. In practice, my approach will be to make sure that the conference helps members access cutting-edge science, enables colleagues to connect and form new bonds, and provides an environment for students to thrive. I would be excited to help keep this tradition alive, and happy to listen to new ideas from division program officers and members alike. One specific initiative I plan to implement is my "end Saturday" idea — whenever possible, end the conference on Saturday, so that Sunday is the travel day, enabling more members to stay until the end. And overall, I aim to keep the conference fun and informative and have members continue to be excited to attend.



Kakani Katija, candidate
for Member-at-Large.

Member-at-Large Candidates

Kakani Katija

Current Position: Principal Investigator and Engineer, Monterey Bay Aquarium Research Institute.

Education: B.S. University of Washington in Aeronautics and Astronautics (2004), M.S. California Institute of Technology in Aeronautics (2005), Ph.D. California Institute of Technology in Bioengineering (2010).

Professional Experience: Postdoctoral Scholar and Investigator, Woods Hole Oceanographic Institution (2010-2014); Visiting Lecturer, Bridgewater State University (2013); Research Associate, Hopkins Marine Station, Stanford University (2014); Postdoctoral Fellow, Monterey Bay Aquarium Research Institute (2015-present); Research Associate, National Museum of Natural History, Smithsonian Institution (2017-present).

SICB Activities: Member for 10 years; invited symposium speaker (2015); session chair (various).

Other Memberships: American Geophysical Union, American Physical Society, American Academy of Underwater Sciences, National Geographic Society Emerging Explorers.

Research Interests: Comparative biomechanics and morphology of marine organisms (particularly invertebrates); biological fluid dynamics; ecomechanics; swimming and feeding; bio-inspired design; deep sea biology; ocean instrumentation.

Statement of Goals: As a multidisciplinary researcher spanning fields of physics, engineering, oceanography, and organismal biology, I have always found it challenging to define my home society. However, over the years it has become clear to me that SICB represents a place where my research passions and interests can flourish, and the Annual Meeting is my must-attend yearly conference. As a member of the Executive Committee serving as Member at Large, I will be committed to the promotion of SICB and the broad field of integrative and comparative biology. Due to my diverse research background, I have an appreciation for the entire scope of the Society, with a unique perspective on the intersection of technology and biology.



Marianne Porter, candidate
for Member-at-Large.

Member-at-Large Candidates

Marianne E. Porter

Current Position: Assistant Professor, Florida Atlantic University, FL.

Education: B.S. Northern Arizona University (2000); M.S. Northern Arizona University (2002); Ph.D. University of California, Irvine (2007); Postdoctoral Fellow, Vassar College (2008-2013).

Professional Experience: Visiting Assistant Professor, Florida Atlantic University (2013); Visiting Lecturer, Friday Harbor Labs, University of Washington (2012); Affiliate Research Assistant Professor, Florida Atlantic University (2011-2013).

SICB Activities: Member for 16 years; Membership committee (2018-2021); chair of DCB nominating committee (2018); Member of SICB ad hoc committee assessing student career outcomes and diversity (2016); Student Support Committee (2012-2015); DCB graduate student/post doc representative (2010-2012); co-organized symposium (2011); judge for student posters and talks for DVM and DCB at numerous meetings.

Other Memberships: American Society of Ichthyologists and Herpetologists; American Elasmobranch Society; International Society of Vertebrate Morphology; American Association of Underwater Scientists.

Research Interests: Comparative biomechanics and morphology of marine organisms; biological materials, especially cartilage, bone, and skin; swimming using volitional swimming to understand kinematics.

Statement of Goals: I consider SICB to be my 'home' society, and I would be delighted to give back to the society by serving as a Member at Large. As a member of the executive committee, I will actively work with the divisions to facilitate their individual missions and goals. My broad training in ecology (plant-herbivore interactions; riparian ecology), and current work in functional morphology and biomechanics, makes me uniquely suited to fulfill the duties of this position and 'advocate for the entire scope of SICB science.' Since I was a graduate student, I have been bringing undergraduates to the annual meeting as a way for them to be broadly exposed to scientific research and to highlight their work as a scientist. Thank you for considering me as a SICB Member at Large.

PROPOSED CONSTITUTION AND BYLAWS AMENDMENTS 2018 – proposed by the SICB Executive Committee; these will be on the May 2018 ballot. These changes provide a greater and more specific role for the Program Officer-Elect and lengthens the term from one to two years. The office of Past Program Officer is eliminated.

deletions = strikethrough
additions = **bold underline**

Proposed Bylaw Changes

SICB CONSTITUTION

Article III: Administrative Organization

Section 1. Officers: The executive officers of the Society shall be a President, Past President, President-Elect, Secretary, Secretary-Elect, Program Officer, Program Officer-Elect, ~~Past Program Officer~~, Treasurer and Treasurer-Elect. The President-Elect shall be elected before one annual meeting and serve for a term, as herein-after provided, and shall then successively and automatically become President for two years and then successively and automatically become Past President for two years. The term of the President-Elect shall be two years. The Secretary-Elect and Treasurer-Elect shall be elected triennially, and shall hold office for a term of one year, and then automatically succeed to their elected office for three years. The expiration date of the terms of these offices shall be arranged so that only one of these two officers need be elected in any one year. The Program Officer-Elect shall be elected to serve for ~~one year~~ **two years** and shall then successively and automatically become Program Officer for two years and then successively and automatically become ~~Past Program Officer~~ for one year.

SICB BYLAWS

Article VII: Program Officer

Section 1. The Program Officer shall receive and arrange the titles and abstracts of papers submitted for the scientific programs at meetings of the Society.

Section 2. The Program Officer shall, in consultation with the Divisional Program Officers, appoint Chairpersons to preside over scientific sessions.

Section 3. The Program Officer shall oversee the arrangement for and supervise the publication of the programs and abstracts of meetings of the Society.

Section 4. The Program Officer shall chair the Program Committee for the purposes of establishing and organizing the program for the annual meeting.

Section 5. The Program Officer shall serve as an *ex officio* member of the Public Affairs Committee and work with the Public Affairs Committee to broadly advertise the program of the annual meeting.

Section 6. The Program Officer shall serve as an *ex officio* member of the Broadening Participation Committee.

Article VIII: Program Officer-Elect

Section 1. The Program Officer-Elect shall assist the Program Officer in the duties specified in Article VII. In particular, the Program Officer-Elect will direct the selection of assemble the symposia of the annual meetings to be presented the first year after assuming the position of Program Officer.

Section 2. The Program Officer-Elect shall assume the duties of the Program Officer in the latter's absence or inability to serve.

Article IX: Past Program Officer

Section 1. The Past Program Officer shall assist the Program Officer in the duties specified in Article VII.

Section 2. The Past Program Officer shall assume the duties of the Program Officer in the absence or inability to serve of the Program Officer and Program Officer-Elect. ■

	S. Williams	next PO	next PO	next PO
2016	Elected			
2017	PO-Elect			
2018	PO	Elected; PO-Elect		
2019	PO	PO-Elect	Elected	
2020		PO	PO-Elect	
2021		PO	PO-Elect	Elected
2022			PO	PO-Elect
2023			PO	PO-Elect

TRANSITION – *not a part of the proposal, but will be published alongside; in 2018 PO-Elect will assume office immediately after the election in May*