



Division of Invertebrate Zoology

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Jonathan Allen
Secretary 2013-2016

John Zardus
Program Officer 2011-2014

Kit Yu Karen Chan
*Student Postdoc Representative
2011-2014*

Jennifer Burnaford
*Libbie Hyman Memorial Scholarship
Committee Chair*

Message from the Chair



Jim McClintock overseeing his research activities in Antarctica

James McClintock,
Chair.DIZ@sicb.org

Dear Invertebrate Zoologists
– Friends and Colleagues

Greetings! I hope your fall is off to a great start. Our first order of business is a final thank you to Erika Iyengar for serving as our secretary over the past three years. I want to extend a warm welcome to Jonathan Allen who has now assumed the secretarial reins. John Zardus – our outstanding Program Officer – will complete his tenure following the Austin meetings. Please remember to extend your appreciation to John when you see him. I am very pleased that Bruno Pernet from California State University at Long Beach has been elected to step into John's shoes. I also want to extend my deep appreciation on behalf of all of DIZ to Elizabeth Davis-Berg who has so ably overseen our student awards program. She has done a superb job. Anne Böttger from Westchester University, Pennsylvania has kindly agreed to step into this key role. Let's all welcome Anne in Austin! Last but certainly not least – Jennifer Burnford has agreed to remain the chair of the Libbie Hyman Student Award Committee. Bravo!

In terms of our DIZ budget here are a few reminders. Each division receives an annual allocation of \$2000 for sponsored symposia, \$800 to support their annual social, and \$300 for student paper awards. Our former Chair – Dianna Padilla – was key in promoting a new annual discretionary fund for each division as well. Last year, we had a little over \$1,000 to spend in this category. We have a policy that any unspent funds in a given year are deposited towards the principal of the Libbie Hyman fund. Please be thinking about any needs that might be appropriate for our discretionary funds. Let me know or bring your ideas to the annual DIZ business meeting. One ongoing plan that was approved at last year's business meeting is to use some of these discretionary funds to have the hard copies of our DIZ records scanned.

As I gaze at my new office set of "The Invertebrates," I am reminded that we had a most successful auction last year in San Francisco! DIZ members definitely step up to the plate when it comes to philanthropy. According to my latest records, our Libbie Hyman fund principal has risen to approximately \$28,000. Thanks again to all those that helped make this auction such a resounding success and let's keep growing that principal. Please consider making



a tax deductible donation to the Libbie Hyman fund before the end of the coming tax year.

Austin, Texas is just around the corner! John Zardus just returned from the Program Committee meeting and reports that there were an impressive 1589 posters and presentations submitted for the upcoming Austin meeting. DIZ will be sponsoring four symposia in Austin (for additional details see John's letter below). John also reports that the meeting venue looks very good. Not glamorous but sensible, with two full floors devoted entirely to SICB. Most of the session rooms are on the same floor and, importantly, there is a good range of restaurants nearby. And what about nightlife? Late and lively. Well it is home to Austin City Limits.

Portland, Oregon is peeking over the horizon (January 2016). Accordingly, it is time to begin to communicate with friends and colleagues about prospective symposium ideas. As always, innovation and timeliness are important criteria, as will be an invited speaker list that includes a diversity of participants. If you have any ideas for symposia at this juncture, please contact either me or John Zardus. It is never too early to begin planning for submitting a symposium proposal and seeking supporting funding.

Message from the Program Officer

John Zardus, DPO.DIZ@sicb.org

Hey Y'all,

Hope you're gettin' ready for Austin 'cause it's ready for you! I am just back from the Program Committee meeting and the program and the venue for the January SICB meeting, the Hilton Austin in downtown Austin, is looking great. This will be another full and large conference with 1,589 talks and posters. Ten symposia form the framework of the program organized into more than a dozen concurrent sessions. There will be two society-wide symposia: **The Cell's View of Animal Body Plan Evolution** (organized by Deirdre Lyons, Mansi Srivastava and Mark Martindale) and **Epigenetics: Molecular Mechanisms Through Organismal Influences** (organized by Warren Burggren). Two symposia are being sponsored by DIZ: **Shaking, Dripping and Drinking: Surface-Tension Phenomena in Organismal Biology** (organized by David Hu, Rachel Levy, and Lydia Bourouiba), and **Parasitic Manipulation of Host Phenotype, or How to Make a Zombie** (organized by Kelly Weinersmith and Zen Faulkes). Six addition-

al symposia round out the program: **Stress, Condition and Ornamentation** (organized by Geoffrey Hill), **The Micro and Macro of Nutrient Effects in Animal Physiology and Ecology** (organized by Robin Warne and Dan Hahn), **Adaptation or Developmental Constraint? Uniting Evolutionary Theory and Empirical Studies** (organized by Haruka Wada and Kendra Sewall), **Methods and Mechanisms in Ecoimmunology** (organized by Cynthia Downs, Jim Adelman and Greg Demas), **Terrestrial Locomotion: Where do We Stand, Where are We Going?** (organized by Richard Blob and Tim Higham), and **Endocrine Disruption in the Ecosystem: Linking Anthropogenic Causes and Effects in Natural Settings** (organized by Kevin Kelley, Stephen McCormick and Tara Duffy).

The meeting will open Friday, January 3 at 7:30 pm with an entertaining and informative plenary address by scientist-cinematographer Randy Olson entitled



PO's diligently assembling the program

Storytelling Skills: Now Mandatory for a Career in Science. Look also for a variety of lectures, workshops, and socials throughout the meeting. At the midway point on Sunday at 7:30 we will, in the spirit of "integrativity," combine forces for a six-unit social with the Division of Evolutionary Developmental Biology (DEDB), the Division of Ecology and Evolution (DEE), the Division of Phylogenetics and Comparative Biology (DPCB), The Crustacean Society (TCS) and the American Microscopical Society (AMS). The last poster session will be Monday, January 6 and the last oral presentation sessions will end Tuesday afternoon, January 7 followed by a society-wide closing social.

The hotel provides a compact yet commodious meeting space on two floors (floors 4 and 6, floor 5 consists of private condos hidden from view) accessed by elevators and escalators (separate from guestroom elevators) that communicate with the lobby. Command central will be on the 6th floor with the registration desk, poster space, exhibit booths, committee meeting rooms, ready room, and a childcare



room. Most of the session rooms will be on the 4th floor. In the hotel lobby there is a UPS office, a coffee shop open from morning to night (not Starbucks but it serves Starbucks coffee and Blue Bell ice cream), a casual restaurant open for lunch, a tavern, and a fine dining restaurant with separate bar open for dinner.



View of Austin from the Hilton

Austin is a fun town that stays up late and the Hilton Austin, at the corner of 6th St. and Red River Rd., is in the heart of the downtown area. There is a lively college vibe along 6th street with music, restaurants, and bars. Quieter, upscale eateries are a short distance away on 2nd and 3rd streets. Four blocks to the south runs the Colorado River with river-

side jogging paths and parks. The weather in January can be mild or chilly but it is Austin (30.25° N), not Boston (42.36° N).

We've also been busy giving thought to the program for West Palm Beach, Florida in 2015. Twelve symposia proposals have been selected for development for that meeting. Look for further details in the spring newsletter. It's also not too soon to be thinking ahead to Portland, Oregon in 2016. The deadline for submitting symposium proposals for Portland will be in September, 2014, so you have about a year to incubate your ideas, contact colleagues, and work with the divisional Program Officers in developing your plans. The number of symposia per meeting is limited to 10 to 12 and it often happens that more proposals are submitted than can be accommodated. So, it pays to do your homework (read the symposium proposal guidelines on the SICB website), plan early and get feedback along the way to improve your chances.

In Austin, I will be bidding you fond farewell as DIZ Program Officer. But I know my most capable re-



John Zardus

placement, Bruno Pernet (Cal State Long Beach), will carry the torch brightly forward and will be eager to hear your ideas for symposia. I look forward to seeing you soon in the Lone Star State.

Happy trails!

Message from the Secretary

Jonathan Allen, Secretary.DIZ@sicb.org

Greetings Invertophiles! Let me begin by echoing our Chair's praise of Erika Iyengar, John Zardus, and Elizabeth Davis-Berg who are all on their way out in their respective positions within DIZ. All of them made my first go at a newsletter this past spring a smooth transition. We have already lined up fantastic replacements in the form of Anne Böttger (who's initial report is below) and Bruno Pernet who will be coming online this year. As you will note below in her message, we will soon need to find someone to take up the reins of the Student/Postdoctoral Affairs Committee Representative from Karen Chan. If you're interested in this position, please contact the DIZ officers for more details.

I look forward to seeing all of you at the annual meeting in Austin! The word from our program officer, John Zardus, is extremely positive. It sounds like the venue and the city both set for our arrival. The overall membership of SICB continues to grow each year, so I expect a big turnout in January. Through my position on the membership committee, I can say that the society membership is growing at a healthy clip (unlike many scientific societies) so we're clearly operating from a position of strength.

As I mentioned in the spring newsletter, I'd like to include a short member profile in each newsletter to highlight the research of one of our active members in DIZ. This profile will be in the style of some of the online member profiles that appear in our **researchers database** (<http://sicb.org/divisions/DIZ/researchers.php3>). I would encourage all of our members to contact me if they want to set up a profile for themselves.



Member Profile

Dr. Scott Santagata, Long Island University



The Old Man and the Sea. Dr. Scott Santagata looks out over the Ross Sea on an NSF-funded collecting trip with collaborators from Auburn University and Central Michigan University.

My laboratory's research largely focuses on the evolution of developmental mechanisms and the phylogenetics of marine invertebrates, especially phoronids, brachiopods, and bryozoans. Recently, I collaborated with scientists from Auburn University and Central Michigan University on their NSF-funded research project exploring the biodiversity and genetic connectivity of marine invertebrate communities along the western shelf of Antarctica. Documenting and preserving the rich diversity of marine life found in Antarctica is crucial in light of the negative impacts from global environmental change and ocean acidification.

I am also a 'member at large' for the American Microscopical Society and co-taught Comparative Invertebrate Embryology at the University of Washington's Friday Harbor Laboratories in summer 2013.

More information can be gathered from my personal website: <http://sites.google.com/site/scottasantagata>



Living the dream of (almost) every scientist? I visited the City Hall of the Stockholm and their Nobel Prize Award Ceremony Exhibit and I was so happy when I posed for this glamour shot with Mr. Alfred Nobel (and yes, this is the same statue they put on stage for the real ceremony).

Message from the Student/Postdoctoral Affairs Committee Representative

Kit Yu Karen Chan (Karen Chan)

Hello all. I hope you have enjoyed another productive and lovely summer and are now going through a happy fall. I am so excited to see you in Austin this coming January.

Austin will be another amazing meeting. According to the SICB facebook page, the program committee had a lot of fun during their planning meeting, which included attending a Blondie concert!!! Wait, if you don't know SICB has a facebook group, please join us today. This is also a good segue to promote the workshop that SPDAC will be hosting on "Managing your web presence." We will explore designing and maintaining a personal webpage, blog post, facebook, and twitter accounts. You may have done research about somebody on the internet, so come join us and learn how to impress your audience when you become the subject of the Google search. In other words, #coolevent #donotmiss. Workshop aside, DIZ will help host a brownbag lunch on "Working at a non-R1 institution." Come and explore your career options with experienced and diverse panel members to see what life is like outside big, R1 universities and how to get a job at those institutions! Also, SPDAC will continue to operate a table at the exhibition hall and provide consultation services on your CV. Therefore, don't forget to bring a copy and get feedback if you are interested. Last but not the least I have heard that in addition to the excellent symposia and contributed sessions there will be a SICB pub crawl.



*Science in action. Spawning of green urchins (*Strongylocentrotus droebachiensis*) for an experiment looking at how elevated $p\text{CO}_2$ level affects larval movement in moving water.*

It has been amazing to be the SPDAC representative for DIZ for the last 3 years but it is time for me to be rotated off. So, if you are interested in serving DIZ, making new friends, and contributing towards the students and postdoc community, please consider taking up the post. Please feel free to contact me via email at kchan@whoi.edu if you have any questions about the role.

Looking forward to seeing you all in Lone Star State. Safe Travels.



Re-defining tropical fun! I also participated at the Taxonomy course focusing on planktonic larvae at the Smithsonian Tropical Research Institute at Bocas del Toro this July. Who cares about Sun and waves when you at look at beautiful larvae under the microscope all day, e.g., the elegant actinotroch shown here.

Message from the DIZ Student Awards Committee Chair

S. Anne Böttger

Another meeting is almost upon us, and we anticipate and encourage many students to compete for the DIZ's Best Student Paper and Poster awards. I therefore encourage ALL post-graduate members who are attending the meeting in Austin, Texas to sign up as judges. Attendees will have the option to sign up as a judge with their online registration. However, you are also welcome to sign up as a judge by contacting me directly at aboettger@wcupa.edu. Judges are asked to referee 4 or fewer presentations. Please help us continue the DIZ's established history of valuing student presentations by signing up as a judge to evaluate student presentations and provide students with valuable comments that will aid them with future presentations.

We will allow judges to choose talks to evaluate via the online program for the SICB meeting in Austin. Judges will go online and select the DIZ talks or posters they want to judge: first come, first served. When the schedule is complete, I will email your assignments and judging instructions - typically in late December. Forms to evaluate posters and talks will be provided to all at the time of registration. An envelope with your name, your assignments and the appropriate number of evaluation forms will be left for you at the registration desk. If you would prefer, instead, to receive the forms as electronic versions, please feel free to contact me.

I would like to thank all past judges for their time and effort, and ask for their continued help. If you have not volunteered as a judge, I strongly encourage you to volunteer. It is great fun and a wonderful way to help the division. Judges are often in short supply yet necessary to continue to offer student awards. Judges' comments are meaningful and important to prepare students for future presentations and help shape their future research questions. If you have any questions regarding the duties of a judge, please do not hesitate to email me at aboettger@wcupa.edu.

I look forward to seeing everyone in Austin in January 2014!



Message from the Libbie Hyman Scholarship Selection Committee Chair

Jennifer Burnaford

As I announced in the Spring newsletter, the 2013 Libbie Hyman Memorial Scholarship was awarded to **Emily Weiss** of Oregon State University. Emily had planned to use the award for coursework and independent research at the Bocas del Toro Biological Field Station in Panama. Unfortunately, because of the late summer cancellation of the field course, Emily was unable to use the scholarship funds. Thus we had no Libbie Hyman Memorial Scholarship-supported coursework or research in 2013. We are sad that Emily was not able to embark upon her planned field station experience. We wish her well and hope that she is able to seek out another field station course or project in the future.

As we look forward to the New Year and the upcoming round of scholarship applications for Spring 2014, I encourage each of you to spend some time thinking about Libbie Hyman's deep and far-reaching influence on the field of invertebrate biology. On this note, I refer you to an extremely engaging set of papers from a 1991 Symposium on her life and work at the American Society of Zoologists meeting. The collection, published in 1999 in *American Museum Novitates* (no.3277), can be found at <http://digitallibrary.amnh.org/dspace/handle/2246/3013>.

We continue to encourage and appreciate contributions to the Scholarship Fund to allow us to support these transformative experiences for students. Click on 'Donate to SICB' on the SICB home page (sicb.org) or send donations to:

SICB Business Office
Libbie H. Hyman Memorial Scholarship Fund
1313 Dolley Madison Blvd., Suite 402
McLean, VA 22101

Checks should be made payable to SICB and marked as a "Contribution to the Libbie H. Hyman Memorial Scholarship Fund." All contributions are tax deductible.

As always, I thank Will Jaekle and John Zardus for their service on the committee, and Ruedi Birenheide for making the web-based application process work smoothly.

Applications in 2014 will be due on February 14: so mark your calendars! The application form is available at <http://sicb.org/grants/hyman/>. If you or your students have questions about the application process, please feel free to contact me via email (available at that site). Please encourage your best students to apply!



Alexander Cheroske