



Division of Invertebrate Zoology

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DIZ Officers & Representatives

James McClintock
Chair 2012-2015

John Zardus
Chair-Elect 2014-2015

Jonathan Allen
Secretary 2013-2016

Bruno Pernet
Program Officer 2014-2017

Jenna Moore
Student Postdoc Representative 2014-2017

Jennifer Burnaford
Libbie Hyman Memorial Scholarship Committee Chair



James McClintock gives a lecture on Antarctic climate change at the Oceanographic Aquarium in Valencia, Spain during his European Lost Antarctica book tour in the spring of 2014. Behind him on the stage is the largest marine aquarium in Europe. <http://www.cac.es/oceanografic/activities/ficha/?contentId=127421&languageId=4>

Message from the Chair

James McClintock, Chair.DIZ@sicb.org

Dear Invertebrate Zoologists

–Friends and Colleagues–

Bonjour! I hope your new academic year is off to a wonderful start. I am feeling refreshed after spending this past spring on a research sabbatical at the Arago Marine Laboratory in Banyuls-sur-Mer, France studying the mineralogy of sea urchins in the context of ocean acidification.

On the leadership front we owe John Zardus our gratitude for completing his three year tenure as our Program Officer after the Austin meetings. We are fortunate that we will continue to benefit from John's leadership as he has recently been elected to replace me as DIZ Chair at the completion of the meetings in Palm Beach, Florida. We welcome Bruno Pernet to the Program Officer position, and I also am delighted to introduce Jenna Moore as our new Student and Postdoctoral representative. Jon Allen and Jennifer Burnaford continue to make valuable contributions as our Secretary and Libbie Hyman Memorial Scholarship Chair, respectively. We are also fortunate to have Anne Boettger so ably chairing the DIZ committee overseeing student awards.



I am pleased to report that DIZ currently has a balance of approximately \$4000 in the discretionary fund. Despite these funds rolling over each year, I encourage divisional members to consider ideas for their expenditure. The potential expenditures have a great deal of latitude. We might consider using some to provide additional revenue for our annual conference mixer, provide travel for an invited DIZ speaker, and complete our goal of having hard copies of the DIZ historical records scanned.

The Libbie H. Hyman Memorial Scholarship fund that supports students to take courses or carry out research on invertebrates at a marine, freshwater, or terrestrial field station is remarkably robust due in large part to several generous gifts of funds from Dr. Jarid Simons. These additional funds, coupled with those generated by the DIZ Libbie Hyman auction in San Francisco have created a fund that now exceeds \$70,000. The Libbie Hyman committee is considering raising the amount of the award or, for the first time, funding two awards in the coming year. Some of you have asked me about the next auction. Recall that the division decided to host the auction every three years, so it is not too early to start setting aside those auction items you wish to contribute next year.

Our Program Officer Bruno Pernet returned from the recent Program Officers planning meeting with lots of great news. The number of posters and presentations for the West Palm Beach meeting is in the neighborhood of 1500, with approximately 620 of these posters. DIZ will be sponsoring or co-sponsoring six symposia. Read on to Bruno's letter to learn the titles.

Most importantly, Bruno reports that the venue, the Palm Beach Convention Center, looks marvelous. The meetings rooms are close together and there is great space for socials. Across the street is a shopping center with more than twenty-five restaurants, bars, and pubs. There is even a bar with a mechanical bull and the beach is less than two miles from the convention center.

Next year (Jan 2016) we meet in Portland, Oregon. Having family there, I can attest to the city's natural beauty and numerous attractions. And don't forget it is not too early to begin to think about hosting a symposium for the Jan 2017 meeting. Please share your symposium ideas with Bruno. Nudge a colleague, e-mail an old research partner, take a minute to think about timely topics. Let's continue to make DIZ one of the lead divisions when it comes to hosting and co-hosting outstanding symposia.

This will be my final newsletter as Chair of DIZ. Let me take the opportunity to thank each and every one of you for supporting our division and SICB at large. Having been a member of DIZ/SICB for 36 years, I am thrilled with the direction of our organization, its ever growing youthful energy, timely discourse, and contributions to society at a critical juncture in our biological history.

Message from the Program Officer

Bruno Pernet, DPO.DIZ@sicb.org

Hi all – I write from West Palm Beach, where your Program Committee just finished a very productive weekend meeting, during which we scheduled the 1500 abstracts (880 oral, 620 poster) submitted for the 2015 meeting, organized business meetings and socials, explored the meeting site and surroundings so as to be able to tell you a little bit about them, and evaluated symposia for the 2016 Portland (Oregon) meeting. It was my first time at this meeting, and I was lucky to have former DIZ Program Officer and current President-elect John Zardus there (in his other role as The Crustacean Society Program Officer) to give me advice. Thanks John!

Fifteen hundred abstracts makes this yet another very large, very busy meeting! Of the 12 symposia that will be running at the meeting, DIZ is co-sponsoring six: **Unsteady Aquatic Locomotion with Respect to Eco-Design and Mechanics** (Frank Fish & Paolo Domenici); **Soft Bodies, Hard jaws: Phylogenetic Diversity of Prey Capture and Processing in Jawed, Soft-bodied Invertebrates** (Rick Hochberg & Elizabeth Walsh); **New Insights into Suction Feeding Biomechanics and Evolution** (C. Darrin Hulsey, Steven Day, Tim Higham, & Peter Wainwright); **Linking Insects and Crustaceans: Comparative Physiology of the Pancrustacea** (Jon Harrison & Sherry Tamone); **Chemicals that Organize Ecology: Towards a Greater Integration of Chemoreception, Neuroscience, Organismal Biology, and**





Chemical Ecology (James Murray & Russell Wyeth); and **Origins of Neurons and Parallel Evolution of Nervous Systems: The Dawn of Neuronal Organization** (Leonid Moroz). The remaining symposia include one SICB-wide symposium, **Towards a General Framework for Predicting Animal Movement Speeds in Nature** (Robbie Wilson), and five others: **Physiology in Changing Landscapes: An Integrative Perspective for Conservation Biology** (Christine Madliger, Glenn Crossin, & Oliver Love); **Integrative Biology of the Crocodylia** (Valentine Lance); **Thinking About Change: An Integrative Approach for Examining Cognition in a Changing World** (Timothy Roth II & Zoltan Nemet); **Neurohormones, Brain and Behavior: a Comparative Approach to Exploring Rapid Neuroendocrine Function** (Rebecca Calisi & Colin Saldanha); and **Leading Students and Faculty to Quantitative Biology Through Active Learning** (Laura Miller & Lindsay Waldrop).

be a number of special lectures, workshops, and socials. Monday the 5th will be particularly busy for DIZ members, with the divisional Business Meeting from 5:45-6:30 pm, and an AMS Keynote Lecture from 7:30-8:30 pm. These events will be followed by a joint DIZ/American Microscopical Society/Division of Evolutionary Developmental Biology/The Crustacean Society dessert social, from 8:30-11:30 pm. The meeting will end with the Moore Lecture and another society-wide social on the afternoon of Wednesday the 7th.



The SICB Program Committee diligently working to fine-tune the famed "wall of post-its" schedule.

In addition to these symposia, there will be two special sessions that will likely be of interest to many DIZ members: **Sally Woodin and Soft-Sediment Ecology**, and **Teaching Marine Biology**.

The meeting will begin Saturday the 3rd of January with a plenary address by SICB Past President Ken Sebens, and the society-wide opening mixer. The symposia listed above, oral presentation sessions, and three days of afternoon poster sessions (4-6 Jan) form the core of the meeting, but as usual, there will



Your Program Committee checking out 25,000 square feet of poster/exhibitors space. BYO roller skates.

The meeting will be held at the Palm Beach County Convention Center, which SICB will have to itself during the meeting. The Program Committee toured the Convention Center, and it looks like a great venue for our meeting – lots of space, but all the rooms are in one building (on two floors) and quite close to each other, so movement among sessions should be easy. There are good spaces for socials, as well, with the possibility of holding some of those events outdoors if the weather is good. One room will be dedicated for childcare. And there will be free wireless access throughout the building! Across the street to the north is CityPlace, an outdoor shopping center containing at least 25 restaurants, a bowling alley, karaoke, and a bar with a mechanical bull. Enough said. A few blocks north of CityPlace is Clematis Street, which is an older, more typical Florida beach town central business area; Clematis Street has at least a dozen restaurants. One can walk among these different areas, or ride a free trolley that circulates among them. And,



of course, the ocean beach is close by, less than two miles east of the convention center. The Marriott West Palm Beach is the main meeting hotel, but there are a number of "overflow" hotels (listed on the SICB website) that are equally convenient to the Convention Center and CityPlace.

As noted above, the Program Committee spent part of the past few days beginning to plan the program for Portland, Oregon in 2016. We selected twelve symposia proposals for development for that meeting; look for further details in the spring newsletter. It's also not too soon to be thinking ahead to the New Orleans meeting in 2017. The deadline for submitting symposium proposals for New Orleans will be in August 2015, so you have nearly a year to come up with ideas, contact colleagues, and work with the divisional Program Officers in developing your plans. The number of symposia per meeting is usually 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 as much feedback as possible along the way from divisional and society Program Officers to improve your chances. And now that I've actually seen and participated in the discussion this year, I should be able to provide more valuable feedback!

Finally, at this upcoming West Palm Beach meeting, please consider submitting one or more entries to the American Microscopical Society's Ralph and Mildred Buchsbaum Prize for Excellence in Photomicrography. There are separate categories for color and black-and-white photomicrographs. Photomicrographs taken using any type of electron or light microscopy are eligible. The contest is open to all SICB meeting participants, and each participant can submit up to three entries. Previous winners and the complete rules can be viewed on the AMS website (http://amics.org/?page_id=9). The winning images will be published in the first 2015 issue of *Invertebrate Biology*, an AMS journal co-sponsored by DIZ.

I look forward to seeing you in balmy Florida in January!

Message from the Secretary

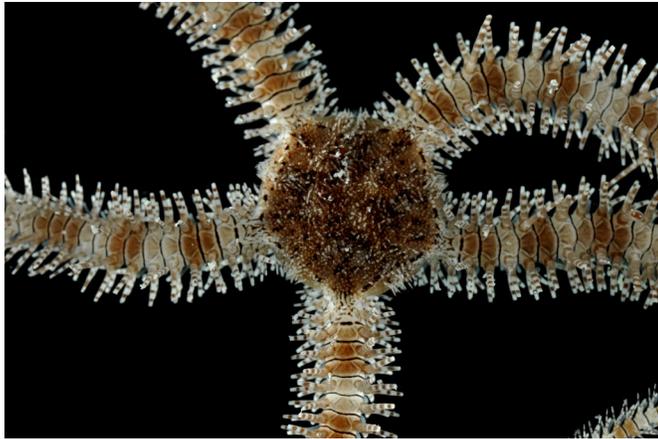
Jonathan Allen, Secretary.DIZ@sicb.org

Hello DIZ! I'm excited to see many of you in Florida in a few months. As Jim and Bruno note above, there are lots of things to love about the upcoming meeting both from a science perspective and a venue perspective.

As some of you may recall from our Spring newsletter, the DIZ is currently in the middle of considering changes to our student award process. Other divisions have changed models in recent years, which does not mean we need to change, but has started the conversation about what we do well in our current system and what could be improved. In order to facilitate a discussion (which began at the DIZ business meeting in January) we have set up a wiki for DIZ members to comment on whether or how to change our current process. **We would very much like to hear your opinion! Please visit <http://dizstudentawards.wmwikis.net> to provide your comments on the process.** Many thanks are due to Bruno Pernet, Bob Podolsky and Rachel Merz for being willing to add their comments and suggestions (pro and con) for changing models. Given the lively and constructive discussion at the business meeting, we're hoping to hear from even more of our members on this forum. We intend to use the comments from the wiki to jumpstart the conversation about this topic at the meeting in Florida.

I'd also like to thank my fellow contributors to the newsletter for providing such wonderful photographs for this edition. If you have images of you, your students or invertebrates that you would like to submit for future newsletters, please let me know. I'm happy to include them!

Enjoy the fall and early winter. I look forward to enjoying a winter break in Florida with you in January!



A brittlestar from the Gambier Islands awaits identification by Jenna Moore, who took this and two of the other gorgeous photos below.

Message from the Student-Postdoctoral Affairs Committee Representative

Jenna Moore

Hello everyone! I hope you have all had a great, productive year so far. Personally, I've been quite happily up to my neck in worms all year. With the recent onset of cool weather, I hope you're as excited as I am to spend the 2015 SICB meeting in sunny West Palm Beach, Florida. Remember to pack your bathing suit and shades.

Speaking of the 2015 meeting, don't forget about upcoming deadlines for student support to attend the meeting: the deadline for the Charlotte Mangum Student Support Program (<http://www.sicb.org/meetings/2015/studentssupport.php>) is October 23, and for the ladies, the Dorothy M. Skinner Award (<http://www.sicb.org/students/skinner.php3>) for students and postdocs is on November 1. SPDAC folks will again be staffing a table devoted to helping YOU, the students and post-docs, at the exhibition hall, so don't forget to stop by and share your thoughts on student and postdoctoral affairs in SICB, or bring your CV for kind critique by the student representatives.



A pencil urchin from the Gambier Islands as photographed by intrepid SPDAC representative Jenna Moore.

If you haven't checked it out already, a list of external grant opportunities in support of student research has been compiled by the SPDAC committee and is available to SICB members online (<http://www.sicb.org/grants/externalgrants.php>). That's all for now, see you soon at the 2015 meeting!



A snapping shrimp from the Gambier Islands poses for one last glamour shot by Jenna Moore.



Message from the Student Awards Committee Chair

Anne Böttger

Another meeting is almost upon us, and we are happy to announce that we have 34 student presentations (14 posters and 20 oral presentations) registered for consideration as Best Student Paper and Poster Presentation awards. We would therefore like to encourage all post-graduate members who are attending the meeting in West Palm Beach, Florida to sign up as judges. Attendees will have the option to sign up as a judge in the checkout section of their online registration. In addition, 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.

Judges will be able to choose presentations they are willing to evaluate via the online program for the SICB meeting at West Palm Beach, which will hopefully be available later in October or November. At that time judges should go online and select the DIZ talks or posters they want to judge: first come, first serve. 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 consider volunteering. 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 West Palm Beach in January 2015!

Message from the Libbie Hyman Scholarship Selection Committee Chair

Jennifer Burnaford, Committee Chair

The recipient of the 2014 Libbie Hyman Memorial Scholarship, David Charifson, is a Ph.D. student working with Dr. Dianna Padilla at SUNY Stony Brook. David used the \$1500 award to support a 5-week summer course at the University of Washington's Friday Harbor Laboratories. He had this to say about his experience:

"Taking Marine Invertebrate Zoology at Friday Harbor Laboratories was a fantastic experience. Although I have been interested in marine invertebrates for years I had little opportunity to study within this system until now. It provided the perfect introduction to working with marine organisms and habitats. I knew before arriving that I would see a diverse array of organisms, yet I was still surprised by how much diversity there is there. I never thought I would be able to see seventeen phyla (and most of the classes within the major phyla) in just five weeks! My favorite invertebrates that we found were a meiofaunal aplousobranch, articulate brachiopods, phoronids, and a giant pacific octopus. It still astounds me that we were just scratching the surface of the diversity in the area.

"One of the great things about taking this course was I was able to interact with so many marine scientists and discuss research. I spoke with classmates, students from other courses, postdocs, established researchers, and everyone in-between. It was an extremely friendly and open environment for such conversations. I'm sure that my classmates will be friends and colleagues for quite some time. This course is certainly the start of my transition towards the field of marine and organismal ecology."



The 2014 Libbie Hyman Scholarship recipient, David Charifson (left) and teaching assistant Kevin Turner explore invertebrate biodiversity on a field trip with the FHL Marine Invertebrate Zoology course. (Photo credit: D.K. Padilla)

This is exactly the type of transformative experience that the Libbie Hyman Scholarship is intended to support. We encourage contributions to the Scholarship Fund to allow us to continue and expand our support for students as they explore the field of invertebrate biology. To make a contribution, click on 'Donate to SICB' on the SICB home page (<http://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.

I thank Will Jaeckle and Dawn Vaughn for their service on the committee, and Ruedi Birenheide for making the web-based application process work smoothly. Applications in 2015 will be due on Friday February 6, 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 (my address is available at that site). Please encourage your best students to apply!



David Charifson (left, front) and the rest of the Marine Invertebrate Zoology class examine invertebrate specimens on the R/V Centennial. (Photo credit: D.K. Padilla)