

Division of Invertebrate Zoology

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DIZ Officers & Representatives

Dianna K. Padilla
Chair 2009-2012

Erika V. Iyengar
Secretary 2010-2013

John Zardus
Program Officer 2011-2014

Karen Chan
Student/Postdoc Rep. 2011-2014

Jennifer Burnaford
Libbie Hyman Memorial Scholarship Committee Chair

Robert W. Thacker
ICB Editorial Board Representative 2010-2015



Spring in the marsh - hopefully the snow will be gone soon



The business end of a blue crab
Photo credit: Sonke Johnsen

Message from the Chair

Dianna Padilla

Dianna Padilla, Chair DIZ

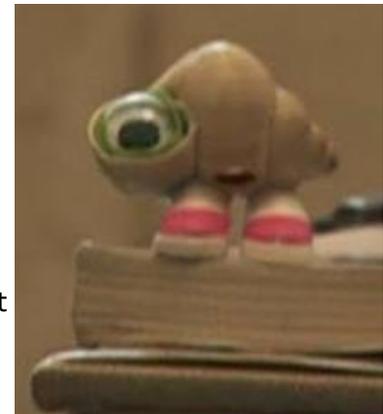
Dear Invertebrate Zoologists,

Time has flown by this winter, but spring is coming soon.

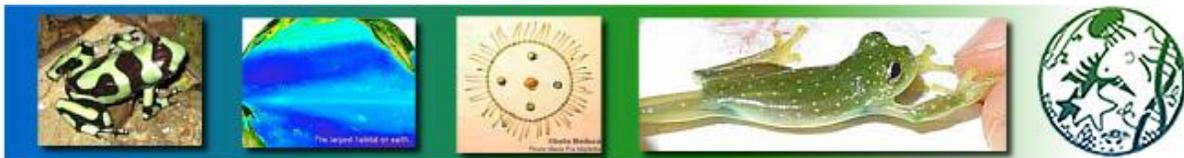
Meetings

Our January meeting in Salt Lake was another wonderful success - near record attendance, which is promising for the continued growth and health of our society. The weather was a bit cold, but the symposia, talks, and posters inspired lively discussions to keep us all warm. Tom Daniel presented a provocative and inspiring plenary talk that addressed both Grand Challenges and the role of organismal biology in "systems" biology and systems approaches to addressing big questions in biology. This was followed on Tuesday by a workshop focusing on the next steps that need to be taken to begin to tackle Grand Challenges in Organismal Biology (GCOB). The workshop was well attended by a number of members of DIZ. Hopefully we will continue to see progress made by members of the society and beyond on the GCOB this year.

Once again, thanks to our (now) past Program Officer, Jim McClintock, we sponsored an exciting array of symposia. I look forward to the papers resulting from these symposium talks, which will be published in *Integrative and Comparative Biology* in



Can't be Dianna... where are the long locks? Marcel the Shell
Photo credit: vimeo.com



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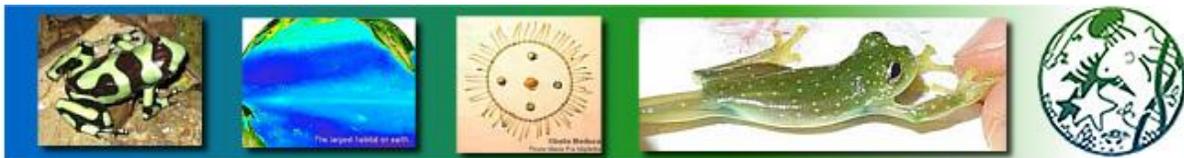
2011. The Program Officer's job is not an easy one, and it is the job most critical to the success of our annual meeting, and ultimately, of our journal. Last fall Jim lined up our sponsorship behind seven very exciting symposia for Charleston in January 2012, covering developmental plasticity (organized by Wund), barnacles (Zardus), movement (Altshuler), locomotion (Miller), evo-devo in animals and plants (Swalla), larval polymorphisms in development (Knott) and a symposium on larval dispersal that will be a tribute honoring Mary Rice (Norenburg). These symposia will set the stage for a very exciting meeting. Jim's efforts as our Program Officer have served us very well over the past three years, so please join me in thanking him for doing an outstanding job. Jim has left very big shoes to fill, but John Zardus, our new Program Officer is clearly up to the job. John is ready to help those of you interested in organizing a mini-symposium or special session around a theme for the Charleston Meeting, as well as plans for our San Francisco meeting. The call for symposium applications for the 2013 meeting in San Francisco is now posted (<http://www.sicb.org/meetings/2013/callsymp.php3>). **Proposals are due August 19, 2011.** Please discuss your proposal with John well in advance of the deadline. Once the applications are in, John and I will decide on funding priorities for DIZ. To receive funding from DIZ - as well as from NSF - your proposal must be forward-thinking, not just a review of past work. You should be addressing new frontiers in science, and preferably linking them to GCOB themes. In addition, you need to have a diversity of presenters - this includes all aspects of diversity (gender, groups underrepresented in the sciences, age and stage of speakers, types of institution). You can ask for funding from NSF to support meeting attendance for graduate students and postdocs who

are not part of the symposium if they will be presenting in an associated contributed paper or poster session. If you have suggestions for topics for symposia you would like to see in the future, please share them with John.

Please join me in thanking Beth Davis-Berg for organizing the judging for the Best Student presentation and poster awards. Once again, we had an outstanding array of posters and presentations representing DIZ. Please join me in congratulating the winners of this year's competition! Beth continued the tradition of making a poster honoring the student winners from the Seattle meeting. This is a great way to provide recognition of the young scientists who have won awards, and draws focus to exciting research being done by members of DIZ. I look forward to this tradition continuing.

Dues increase, and discretionary budgets for divisions

Over the past several years Divisions have lost the discretionary budgets that we had in the past. Historically, divisions were given a budget that reflected the size of the membership of that division. Through time the budget was fixed to a common size among divisions, and recently all budget expenditures became fixed and restricted. They can only be used for symposium support (determined by the Program Officer at the annual Program Officer meeting each fall), support for a social (again determined by the Program Officer at the annual Program Officer meeting each fall), and best student awards (the dollar amount fixed and administered equally across the society). All money in each category must be spent each year, and spent only on that category (e.g., we could not spend less on a social and use the money for something else, or save money one year to support symposia the next year). Thus, the entire budget is fixed and



we are no longer able to do many of the things that we could in the past, such as pay for membership for our student award winners, or decide to spend any of our allotment differently. At the request of the DIZ members attending the business meeting in Seattle, I put forward a proposal to the executive committee that divisions once again be given some portion of their budget that can be spent as the division sees fit. This resulted in many discussions among the officers and a closer look at the society finances. At this year's executive committee meeting we learned that our dues are not meeting the operating budget costs of the society, and that our meeting registration fees are not fully covering the costs of our meetings. Fortunately, our journal is doing well, and providing enough profit to keep our finances for the society sound, but we are likely to see increases in our meeting registration fees on the horizon.

Overall there was general agreement that it would be good for divisions to have a discretionary budget, but that to provide such funds, and meet our need for the funding already committed to symposia, social events and student awards, we would need to have an increase in our dues. So, we will see a \$5 increase in annual dues starting in 2012. This increased revenue will be returned to divisions (proportional to overall divisional membership) and will provide the flexible funding budget for divisions that we requested. As a division we need to start thinking about how we would like to spend such funds. There are no restrictions, and unspent funds in one year can roll over to the next year. I suggest that we reinstate the practice of paying for membership for our best presentation and best poster award winners. I am eager to hear other suggestions of things we could do with this money - so let me know what you think!

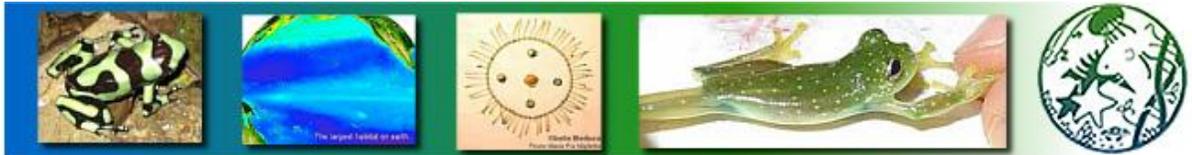
Increasing Funding for the Libbie Hyman Endowment

Jennifer Burnaford has agreed to serve a

three-year term as chair of the Libbie Hyman Fellowship Award Committee. Her fellow committee members are Will Jaeckle and John Zardus. Although we have made efforts to increase the endowment through donations and two auctions, due to the poor performance of the stock market over the past several years, our funds are such that we are limited to one rather modest award each year. In 2004 our auction generated ~\$12,240. In 2009 our auction brought in > \$6,000, but our endowment lost around \$11,000. Thus, we are planning a big push to increase the endowment. At the DIZ business meeting we voted to hold another big auction during the meeting in San Francisco in 2013. So, please plan on donating items to the auction. As the time draws closer, we will have a designated location where donations can be sent in advance of the meeting. In the meantime, start collecting those items that will be treasures for someone else. In the past, items that drew the highest bids included books (a set of Hyman's books on invertebrates makes a nice donation) and hand-made art and jewelry (who can resist polychaete pottery made by Sally Woodin, or a beautiful silver piece from our very own Trish Morse). At the last auction we had wonderful donations of weekend vacations at the homes (or on the boats) of famous invertebrate biologists! So, be creative and plan ahead!

Changing of the Guard

Each of the three elected officers of DIZ serves a three-year term. They are staggered so that each year we have one new officer, and each spring we have an election for the officer whose term will end after our next meeting. My term as DIZ chair will end following the 2012 meeting in Charleston, so this spring we will elect a new DIZ chair. Our nominating committee included Ben Miner (Chair), Bruno Pernet and Amy Moran. My thanks to the committee for doing an excellent job selecting two great candidates to run: Jim McClintock and Ken Halanych. Please



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read about these candidates in the newsletter, and remember to vote!

My thanks to Jann Vendetti for serving many years as the DIZ representative to the Student/Postdoctoral Affairs Committee. Karen Chan has been appointed as our new representative.

New Ideas for DIZ - Working with high school teachers and students



Vivian, Alex, Becky and Sam showing off their too cool field-duds

What do invertebrate biology, marine conservation, high school students, and your broader impacts portion of an NSF grant have in common? My lab has been finding out. We have teamed up with a high school teacher (and Ph.D. student) Rebecca Grella at Brentwood

High School. Funded by a Toyota Tapestry Grant for Science Teachers, we are providing high school students with hands-on research opportunities focusing on coastal ecosystems on Long Island, including saltmarshes and bays. Brentwood is the poorest school district on Long Island, but Brentwood High School



Samantha Garvey checking for clams eaten by whelks in experimental arenas

has the most dedicated teachers and talented students I have ever met. Initially I was reluctant - it is hard enough to manage undergraduates. I was not sure I was ready for high school students. All doubts were gone once I met our team! As they say, if you teach a teacher, you effectively teach hundreds of students. And, if you work with a teacher, they are not only excited to learn and very capable, but are a wonderful source of

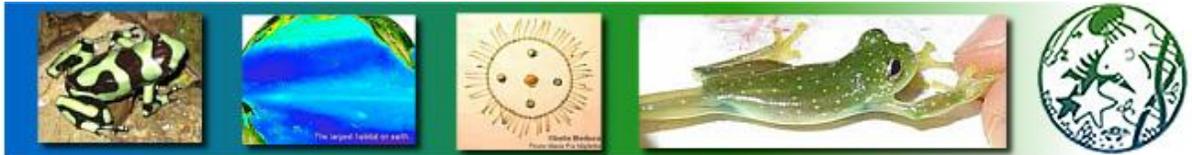
bright, eager students. "Team Tuffy" (Samantha Garvey, Vivian Vuong and Anisha Khemlani) worked on bivalve recruitment in the saltmarsh. Their project earned them Semifinalist status in the national Siemens Science Competition. Kevin Amaya and Alex Harwood worked with a team of graduate and undergraduate students to examine whelk predation on the clam, *Mercenaria mercenaria*, which is a target for restoration by The Nature Conservancy. Rebecca and her class at Brentwood High School have spent the winter looking at the effects of petroleum pollution on marsh grass, adult mussels and gastropod larvae. They are looking forward to heading back into the marsh this spring to learn more about invertebrates, and I am looking forward to working with them! This is definitely one of those win-win situations. I am having a great time working with such talented students, and am having fun!



Kevin and Alex monitoring experimental arenas



From left to right Samantha Garvey, Rebecca Grella, Vivian Vuong. Sam and Vivian are the first ever Siemens Semifinalists at Brentwood High School



Message from the Program Officer

John Zardus

Dear DIZ-ers,

Greetings from balmy Charleston, South Carolina. As I take over the reins of Program Officer from Jim McClintock on the heels of a splendid meeting in Salt Lake City, I am looking forward to hosting the next meeting in my hometown! Salt Lake City as a venue seemed a great success. The conference center provided ample space for posters and vendors as well as all the necessary speaking rooms. Hotel accommodations were nearby and many restaurants were within reasonable walking distance. Now if Utah could have just turned up the thermostat a bit that week. . . .

DIZ co-sponsored five well-attended symposia at the Salt Lake City meeting: *Bioinspiration and Mechanical Design*, *Speciation in Marine Organisms*, *Environmentally Induced Hatching across Taxa*, and *Population Dynamics in Crustacea*. Charleston looks to have a similarly-great line-up with DIZ co-sponsoring seven symposia: *The Impacts of Developmental Plasticity on Evolutionary Innovation and Diversification*, *Barnacle Biology: Essential Aspects and Contemporary Approaches*, *Poecilogony as a Window on Larval Evolution: Polymorphism of De-*



It is nice when your study animals (barnacles) are delivered to you!

velopmental Mode within Marine Invertebrate Species, Combining Experiments with Modeling and Computational Methods to Study Animal Locomotion, Dispersal in Marine Organisms: A Symposium Honoring Mary E. Rice, EvoDevo Rides the Genomic Express, and Novel Methods for the Analysis of Animal Movement: Spatial and Temporal Structure Across Scales.

In the fall newsletter I will be able to provide specifics about the Charleston venue after the planning meeting in September, but for now you can be looking forward to a charming city with great restaurants.

As Program Officer it is my responsibility to encourage good symposium ideas from our membership and it is none too early to begin considering proposals for San Francisco, California in 2013 (proposals are due August 19, 2011). Indeed, you can even begin percolating ideas for Austin, Texas in 2014. I encourage you to contact me with ideas or questions and to check out the proposal guidelines on the SICB website. Early planning helps make symposia effective and rewarding.

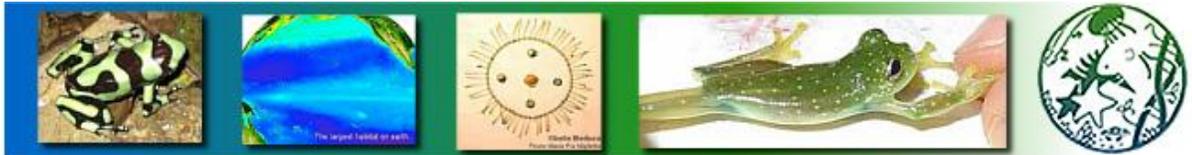
Message from the Secretary

Erika Iyengar

Hello and happy spring! As Dianna noted above, she is finishing her term as Division Chair this year, so there will be an election this spring. This position is obviously very important for the Division and SICB as a whole as our Division Chair works tirelessly behind-the-scenes to coordinate activities within the division, across divisions, with the officers and business managers



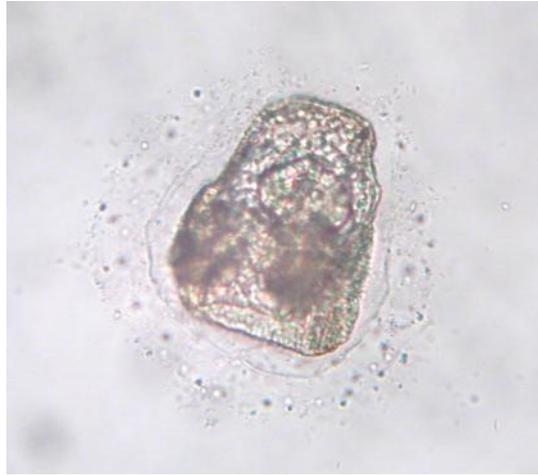
Jamie Baldwin Fergus blue water diving
Photo credit: Mark Hooper



of SICB, and with external professional societies and funding agencies such as NSF. As such, the Chair has her or his finger on the pulse of not only the Society but the emerging trends in the wide field of Invertebrate Zoology. We rely on the Chair to keep us abreast of the current issues, needs, problems, and successes. We have two excellent candidates who have graciously agreed to run in the upcoming election: Ken Halanych and Jim McClintock, both of whom have been active and obvious members of DIZ and SICB as a whole. You can read their candidate statements below, at the end of the newsletter. Regardless of whether Ken or Jim wins, the South will rise to lead DIZ (both men currently reside in Alabama), and DIZ will be ably helmed. There will be an electronic vote later this spring.

Bylaws Changes

At that time you will also be voting on a small change to our bylaws that will increase their consistency of titling with practice and make them consistent with the SICB bylaws. We will vote on a title change, "Graduate Student Presentation Awards" to "Best Student Presentation Awards." The reason for the proposed change is that there are advanced undergraduates who present during the annual conference. In the past, they have been considered eligible to compete in the best student paper and poster competitions, as long as they and their advisor attest to the predominant role the undergraduate played in performing, analyzing and presenting the work (which are the same requirements faced by graduate students who anticipate competing for these awards). Thus, since we have been allowing undergraduates to compete for these awards, changing the title to "Student" rather



Environmentally-induced delay of hatching response in echinoderm embryos
By Frances Armstrong

than the more limiting "Graduate student" will bring the title of the award in line with current practice and SICB bylaws, and will lessen confusion as to whether undergraduates can be eligible. If you were unable to attend the DIZ business meeting, you can find the minutes below, just ahead of the biographies for the Chair election candidates.

Message from the Graduate Student - Postdoctoral Affairs Committee Representative

Kit Yu Karen Chan (Karen Chan)

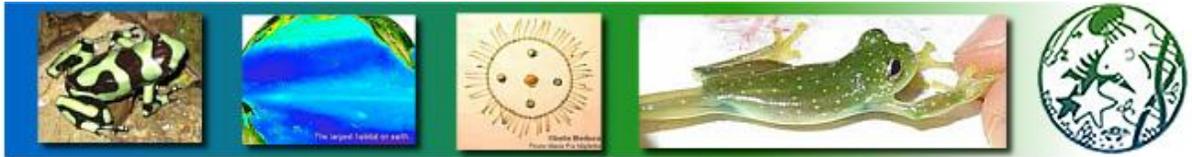
Dear Graduate student and Postdoctoral members,

I greatly enjoyed seeing many of you at the 2011 Salt Lake City meeting and am excited about my new role as student/postdoc representative for DIZ.

Allow me to introduce myself: I am a doctoral candidate in the School of Oceanography at the University of Washington. My research focuses on swimming behaviors of invertebrate larvae and their responses to



Karen inspiring the next generation of marine ecologists



environmental changes. I am also interested in the functional morphology of larvae and the biomechanical limitations that morphology imposes on swimming performance. My focal species is the sand dollar *Dendraster excentricus*, but I am planning to expand to other echinoids soon. When I am not in the lab, I spend my time doing ocean science outreach, baking, and Flamenco dancing.

Congratulations to the winners of the best students' oral and poster presentations and the Wenner Strong Inference Award at the SLC meeting: Jamie Baldwin Fergus, Jeanette Hofstee and (Anne) Frances Armstrong. Great job! According to our Division Chair, the number of entries in our division for the best students' presentations was relatively low. Therefore, when you or your students present at the upcoming 2012 meeting, consider competing in the DIZ division. I hear there is a special, beautiful award certificate made up by our very own Division Chair. Now isn't that alone enough of a reason to compete?

On behalf of our student and postdoctoral members, I would like to thank Peggy Biga and the Student/Postdoctoral Affairs Committee, including my predecessor Jann Vendetti, for putting together the informative workshop at the Salt Lake City meeting on the importance of mentorships in science careers.

I welcome your feedback on the Salt Lake City meeting and encourage suggestions for student/postdoc activities that you would like to see next year in Charleston and at future meetings.

I wish you all the best in your upcoming year of research.



Larva of *Dendraster excentricus*

Message from the Student Awards Committee Chair

Beth Davis-Berg

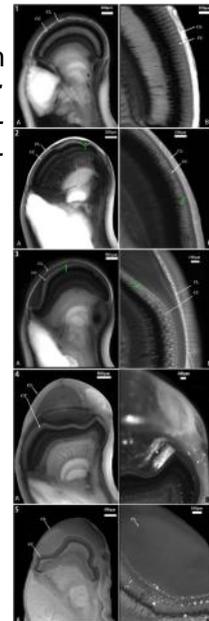
Thanks to everyone who came to Salt Lake City this year, it was a great meeting with excellent student presentations. A special thank you to all the students who presented! I would like to thank the 38 volunteer judges for their time and commitment to the students. In order for students to compete in our division they need to be a member of DIZ. This year 20 students competed for best student paper. And the winners are:

Best oral presentation

Winner: Jamie Baldwin Fergus: "*When love is blind: Vision constrained by molting during mating in the female blue crab*"



Jamie Baldwin Fergus



The eye plate of a molting blue crab

Runner up: Diego Castro: "*Plasticity in the Design and Attachment Strength of Egg Mass Tethers in Response to Variation in Water Motion*"



Diego Castro processing egg masses

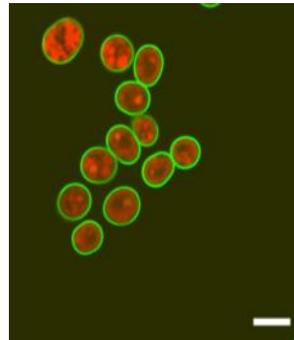


Adult of *Melanochlamys dio-medea* and its egg mass

Runner up: Maria Mazzillo Mays: "Mucilage Variation Among *Symbiodinium* Strains"



Maria Mazzillo Mays



Confocal microscope optical section of *Symbiodinium* sp. labeled with an antibody specific to the symbiosome membrane. The red fluorescence is chloroplast autofluorescence. The green is the label indicating the symbiont mucilage layer surrounding each cell. The scale bar is 10 μ m.

component of the symbiosome membrane. The red fluorescence is chloroplast autofluorescence. The green is the label indicating the symbiont mucilage layer surrounding each cell. The scale bar is 10 μ m.

Best Poster presentation

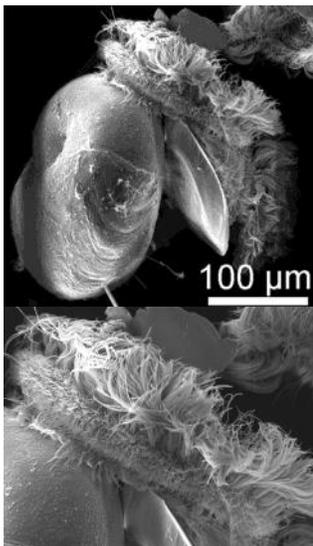
Winner: Jeanette Hofstee: "Simplified velar ciliation in non-feeding larvae of *Littorina*"



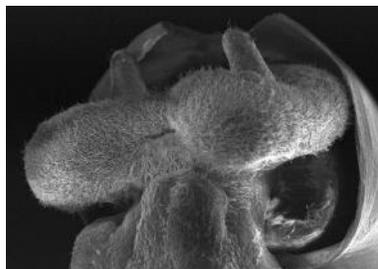
Jeanette Hofstee

Adrian M. Wenner Strong Inference Award

Winner: (Anne) Frances Armstrong: "Environmentally induced twinning in echinoderm embryos and its effects on larval development"



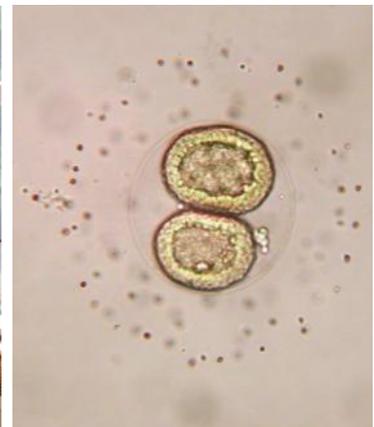
Littorina scutulata veligers display ciliary structure typical of feeding larvae; Scanning electron micrographs



The non-feeding larva of *Littorina saxatilis* has simple cilia; Scanning electron micrograph



Frances Armstrong spawning a sand dollar.



Twin echinoderm embryos

Runner up

Maria Mazzillo Mays: "Mucilage Variation Among *Symbiodinium* Strains"



Please join me in congratulating these outstanding students. I look forward to seeing you all at the next meeting in Charleston, SC!

Message from the Libbie Hyman Scholarship Selection Committee Chair

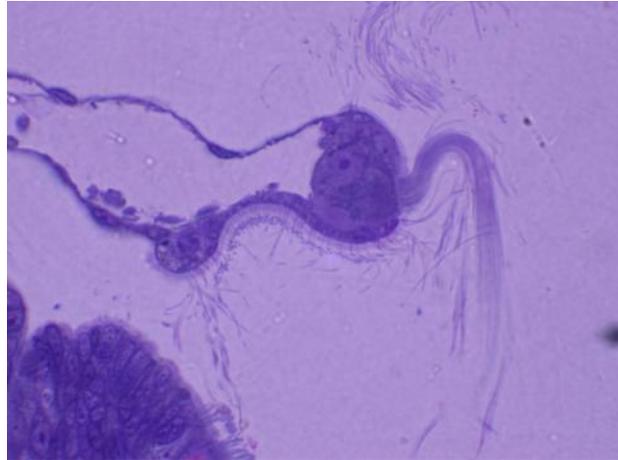
Jennifer Burnaford

Applications for the 2011 Libbie Hyman Memorial Scholarship were due on 4 March 2011. After reviewing the 17 strong applications, we (myself, Will Jaekle, and John Zardus) are pleased to announce that the 2011 scholarship is being awarded to Nathan Farrar (Department of Biological Sciences, University of Alberta). Nathan will use the funds -- \$1100 this year -- to support his participation in a 5-week course on 'Evolution and Development of the Metazoans' at the University of Washington's Friday Harbor Laboratories. For his Ph.D. work, Nathan is using sponges as models to study the evolution of early animal body plans in the lab of Dr. Sally Leys. We congratulate Nathan, and thank everyone for applying.

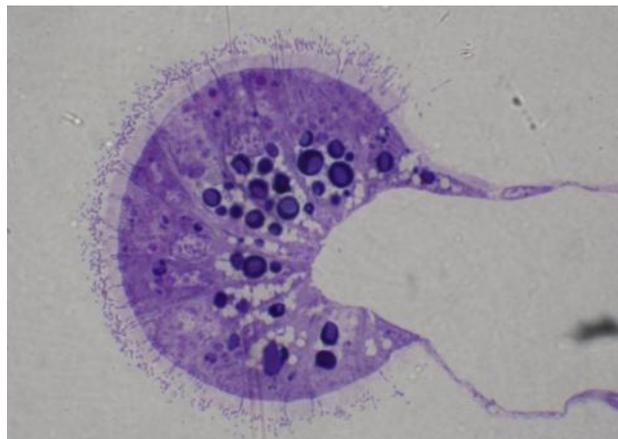
One of our continuing goals is to increase the number of awards that can be routinely given out to two per year. To reach this goal, we need contributions to the Scholarship Fund! To contribute, click on Donate to SICB on the SICB home page (<http://sicb.org>) or send a check to:

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. Thanks for your help!



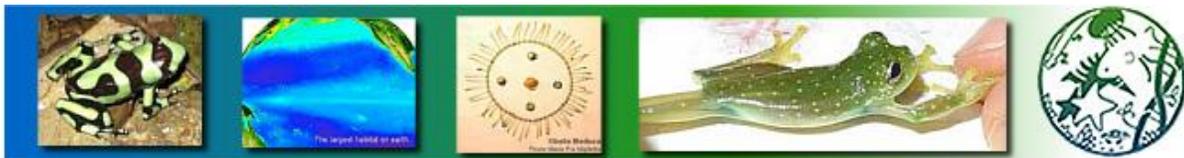
Littorina scutulata veligers display ciliary structure typical of feeding larvae; Light microscopy
Photo credit: Jeanette Hofstee



The non-feeding larva of *Littorina saxatilis* has simple cilia; Light microscopy
Photo credit: Jeanette Hofstee

Minutes of the DIVISION OF INVERTEBRATE ZOOLOGY BUSINESS MEETING, January 5, 2011, Salt Lake City, Utah

Dianna Padilla (DIZ Chair) opened the meeting. The SICB officers arrived and were introduced: Rich Satterlie (President), Lou Burnett (Secretary), Brian Tsukimura (Program Officer), Robert Roer (Treasurer), and Brett Burk



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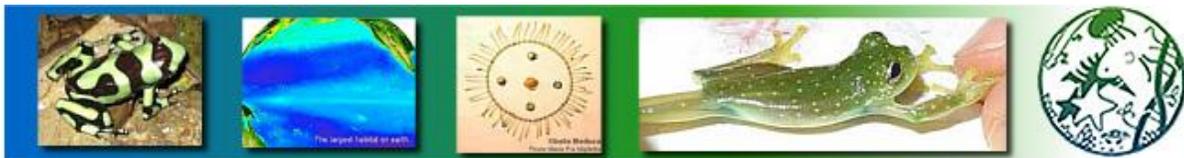
(Executive Director). Rich mentioned the importance of getting good candidates for current elections (such as the current opening for a new Division Chair in DIZ), urged DIZ members to attend the Society-wide business meeting, and pointed out that the executive committee had responded to past comments/issues in ways such as expanding the distance between poster boards. The current distance seems to be working well, and attempts are being made to have sufficient distance at future meetings. Rich indicated that some members mentioned they want warm climates for future meetings, but he also reminded us as to why SICB is in Salt Lake City this year, rather than New Orleans. Brett reported that attendance coming into the meeting was 1349, which makes it the third or fourth largest in modern history, and that SICB's membership is increasing, which is fantastic news. Brian pointed out that the deadline for symposium applications for San Francisco (2013) will be August 19, 2011. The journal *Integrative and Comparative Biology* subsidizes the meeting, which is further reason why we should all want the journal to be strong with a high impact factor. Because the symposium topics are the only content of the journal, it is even more important that we have symposia that are "forward-thinking, broad and diverse, and substantive!"

Next, Dianna requested a motion to approve the minutes of the previous year's meeting. The minutes were unanimously approved. Erika encouraged submissions to the DIZ researchers database. Bob Podolsky suggested that there should be a way to link from the main page researcher's information (including his) to the DIZ researcher's database. Dianna Padilla mentioned that she couldn't get the link to work when trying to enter herself into the researcher database. Erika said she would look into these issues.

Beth Davis-Berg (Student Awards) reported that 20 students submitted their names to be considered in the competition and there were many judges, so that each presentation will

likely have at least 3 judges, and some will have 5 or 6. There have been some problems encountered with the online form where people indicated their willingness to judge, so if you had said you wanted to judge and did not receive a packet to do so, let Beth know. There is a new judging scale on the judge's report form, which will hopefully reduce confusion. Beth will be typing up the comments from the various judges and then giving those summary comments to each competing student. If anyone would like to volunteer to assist in the changes that will be made on the evaluation form, Beth would be happy to hear from you. Also new this year is a poster celebrating last year's winners of the various presentation awards, with their pictures. Each of the winners received a specialized DIZ award certificate, made by Dianna Padilla. It was pointed out that this year there were many fewer students competing for awards in DIZ than in other divisions (such as DEE), for unknown reasons. Encourage your students to compete in DIZ's awards program!

Bruno Pernet (past Chair, presenting for Jennifer Burnaford who is current Chair of the Libbie Hyman Memorial Fund Committee) said that the award last year went to Des Ramirez at UC Santa Barbara, who used the funds to support a two-month stay while taking a class at the Marine Biological Laboratory and to begin collecting specimens for his PhD work in Todd Oakley's laboratory. The amount of this award has been greater than \$1000 for the past three years, and this past year it was \$1200. The application is online (and the deadline is in early March each year). Dianna said that she is looking into the account for the Libbie Hyman award, because there might be an accounting error in one of the past years—the records aren't clear. She also reported that the amount of the award each year is 4% of the 5-year average of the fund, which is estimated at \$1100 for this upcoming year. If anyone wants to make a donation and earmark it to be used for this year (rather than placed in the endowment) to increase the amount of the award for this particular year,



that is easy to do and can be done online through the web page. When to have the next Hyman auction was discussed and the decision was to have it, a huge one, at the San Francisco meeting in 2013, so make sure to start gathering your items now!

Bruno Pernet provided a report on the journal *Invertebrate Biology*: Last year, Pat Reynolds finished his second term as editor-in-chief and Bruno assumed that position; the transition went smoothly. This past year had the second largest number of manuscripts submitted. There is a team of six editors, so they can handle a lot of submissions and are trying to encourage an increase in the number of high quality submissions. Articles do not need to be microscopy-based research. The average turnaround is 44 days to first decision, and most are online within two months of final acceptance.

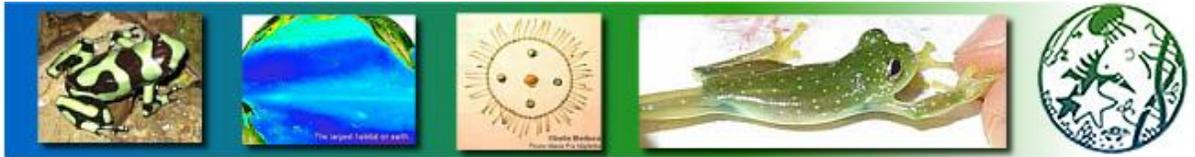
William Zamer provided a National Science Foundation Update: The success rates for funding of grants last year ranged from 12 to 17% among the clusters. The Grand Challenges workshop appeared to be a success; a lot of new people came and participated in the discussions, which was great. Research Coordination Networks (RCNs) promote coordination among researchers to avoid duplication of effort, coordinate training among students, or develop a common research tool or database to make the science leap forward. RCNs do not pay for field work or bench work, they are to advance the coordination, or the bringing of people together, and can range up to \$500,000 over 5 years. Dianna noted that this would be a good time to remind Congress of the importance of science (especially to your particular representatives) and also to society in general.

Dianna Padilla provided the report from the Executive Committee meeting: There were 1082 papers given at the conference and 11 symposia. Many people attended the meeting for a few days, rather than the entire time. DIZ thanked Jim McClintock for the fantastic job he has done as Program Officer (and in-

deed, he had also been recognized for his great work at the Executive Committee meeting).

The new Program Officer, John Zardus, was *in absentia* (due to another meeting), so Sara Lindsay filled in. Sara noted that it is extremely important that you carefully choose the topics and keywords that you list to identify your talk, as this is an integrative biology group and there are no DIZ-specific sessions anymore. Thus, the session in which your talk gets placed is determined by the topics/keywords you choose, so choose carefully to assure correct sorting for your presentation. Now is the time to start thinking of future symposia, and the deadline for San Francisco's 2013 is August 19, 2011 for applying, with decisions made next fall. Perhaps an effective way to do this is by thinking of ones that you would like to go to and inviting others to submit proposals for that topic. When doing this, think of people who are not already well-recognized, but rising top researchers, as it will help promote their work. Most symposia are endorsed by more than one division, and if you hope to get funding from NSF, you need to include women and under-represented minorities in the speaker list. Also, the issue of having a variety of institutions involved in the speaker list is important to NSF.

Dianna Padilla noted: All of SICB's recent annual meetings except for Boston have been in the red, and SICB's dues also have us in the red, but the journal is in the black and keeps SICB afloat and fiscally sound. Overall, the society is in good shape fiscally-speaking, but likely there will be a rise in registration costs for next year to help insure that the annual meeting can end in the black. The question was then raised: If the society is fine overall, should registration be raised significantly? Dianna pointed out that this issue was complicated, in part because costs of publication are also going up for the journal, and it is critical that the Society remain fiscally sound overall.



Dianna also reported that there is a proposal to raise all dues by \$5, and that money would then go back to the Division, proportional to the divisions according to the size of their membership. Each person's dues would increase by a set \$5, regardless of the number of divisions the member belonged to. Currently Divisions have no discretionary funds, and so cannot do things such as pay for SICB membership of student award winners if the Division wants. This problem has been raised, and this is a proposed way to give the Divisions some discretionary funds that could be rolled over from year to year. This proposal was discussed and agreed upon by the DIZ members present, so Dianna will vote "yes" on this proposed dues increase when the vote arises.

The Broadening Participation Committee is now active. They gave 31 travel awards to underrepresented minorities to the meeting in Salt Lake City and have applied for funding from the NSF.

Bob Podolsky reported on the Digital Library (which can be found under "Publications" on the SICB web page): In a SICB survey last year, only 12% of people said they would not use the Digital Library if it had more information available there. Bob would like this division to be the next topical subject in the Digital Library—it would make a very valuable resource! Content is needed (images, video, active learning exercises) and so is an editor for this Division's section. Ruedi Birenheide, the SICB webmaster, posts the content, so it is an easy submission process and an easy editorial process. If you have questions about being a Digital Library section editor, speak with Steve Vogel. A database of teaching exercises is planned. Stay tuned.

Under New Business: There is an Invertebrate Morphology Meeting in Cambridge (20-23 June), the American Malacological Society Meeting is in Pittsburgh (23-28 July), and the North American Echinoderm Meeting is in Anacortes, WA (14 August). Dianna Padilla said that the division is due for a new Chair and a

nominating committee had been formed: Ben Miner, Bruno Pernet, and Amy Moran.

The meeting was adjourned.

Submitted by Erika Iyengar, Secretary



And you thought the equipment in your department was old???

Maria Mazzillo Mays appreciating history after Craig Young's AMS Keynote Lecture

Candidates for Elections: Chair

Ken Halanych

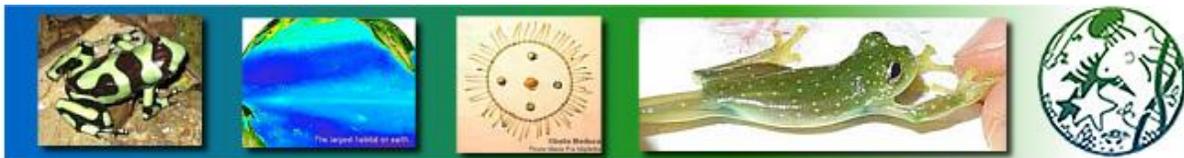
Current Position: Alumni Professor and Marine Biology Liaison; Department of Biological Sciences; Auburn University

Education: University of Texas Ph.D. (1994); Wake Forest University B.S. (1988)

Professional Experience: Positions: Auburn



Ken Halanych



University (2003-present); Woods Hole Oceanographic Institution (1998-2002); Post-doctoral positions: Rutgers University (1996-1998); University of Pretoria, South Africa (1994-1995 + 1996); Southern Methodist University (1995); Other: Marine Environmental Sciences Consortium, Vice Chair and Chair (2009-2011); University of Bergen, Visiting Professor (2010); Oceanic Society, Board of Trustees (2010); Marine Biological Laboratories Adjunct (1999-2002)

SICB Activities: Membership Committee (2002-2010); WormNet Symposium, Organizer (2005); DSEB Chair (2004-2006); DEDB Co-Secretary (2001-2002); Evolutionary Relationships of Metazoan Phyla, Co-organizer (1998); Student paper judge (several times)

Other Memberships: American Association for the Advancement of Science; American Microscopical Society; Society of Systematic Biologists

Research Interests: Evolutionary origins and relationships of major metazoan lineages; annelid evolution and phylogeny, Antarctic biogeography, invertebrate genomics, general patterns in marine invertebrate evolution, diversification of hydrothermal vent fauna (especially siboglinids)

Statement of Goals: "Invertebrates are cool!" This, or some similarly-phrased feeling, is the common chord among DIZ members. We all get excited and enjoy studying the animals, and we love to pass this interest and knowledge to others. As a DIZ chair, I would view my primary responsibility as using various SICB mechanisms to promote and support the enthusiasm and interest of the divisional members.

Within SICB, symposia are the primary tool that allow divisional membership to reach out to colleagues and, more importantly, up-and-

coming scientists. As such, I assert that the chairs and program officers should be proactive in seeking out symposia that not only relay the message that "inverts are cool" but will promote the message that "inverts are going to be even more cool in the future!"

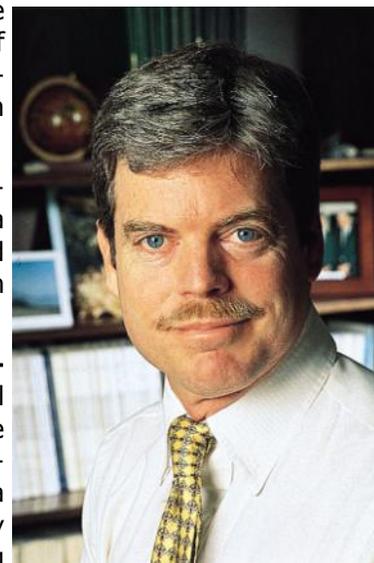
Additionally, supporting mechanisms that allow young scientists to flourish is of paramount importance. Within DIZ, the Libbie Hyman Fund has drawn considerable recognition to the Division and has influenced the career paths of several individuals. Over the past year, our current Chair, Dianna Padilla, has illustrated the need of the Chair to be cognizant on fiscal matters so that such funds can last well into the future. In order to build such resources further, the Chair must be able to effectively interface with SICB officers and other Divisions. Being a present, persistent, and reasonable voice for the Division will strengthen DIZ's ability to utilize SICB to share our excitement.

James B. McClintock

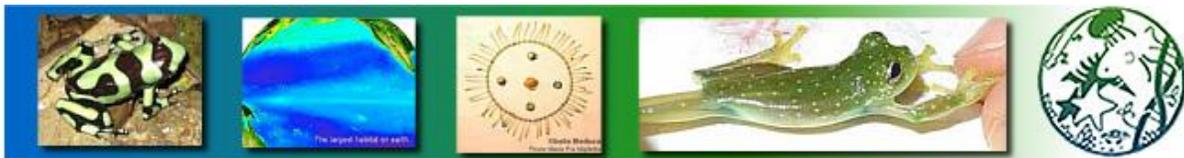
Current Position: Endowed University Professor of Polar and Marine Biology, Department of Biology, University of Alabama at Birmingham (1987 – present)

Education: B.S. University of California at Santa Cruz (1978); M.S. and Ph.D. University of South Florida (1980 and 1984)

Professional Experience: NSF Postdoctoral Fellowship, John Pearse lab (1984 – 1987) University of California at Santa Cruz; Visiting Faculty Member Moss Landing Marine Laboratories (1986 – 1987); NSF Principal



James B. McClintock



Investigator – McMurdo Station Antarctica (1989, 1992, 1993, 1996, 1997); NSF Principal Investigator – Palmer Station Antarctica (2000, 2001, 2007, 2009); Visiting Scientist Bermuda Biological Laboratories (spring 1995); Visiting Scientist Friday Harbor Marine Laboratories (summer 2005); Dean of the UAB School of Natural Sciences and Mathematics (1997 – 2003); Interim Dean of the UAB Graduate School (2005-2007); Contributing Editor Marine Ecology Progress Series (2005 – present); Subject Editor Global Change Biology (2011 – present)

SICB Activities: SICB and DIZ member since 1978; Program Officer for the DIZ (2009 – 2011); Primary organizer of three NSF-funded SICB symposia on Advances in Antarctic Marine Biology (1989, 2000, 2010)

Other Memberships: Elected Fellow of the American Association for the Advancement of Science 1999; Ecological Society of America; Sigma Xi

Research Interests: Marine invertebrate ecology, marine chemical ecology, larval biology, ocean acidification, Antarctic marine biology; marine invertebrate nutrition and reproduction

Statement of Goals: As the DIZ Chair, I would leverage the thirty-three years I have been involved in SICB, and my extensive network of colleagues whose research and teaching interface with aspects of Invertebrate Zoology, to ensure that the DIZ continues its outstanding history of hosting timely divisional and society-wide symposia, raising additional funds for the Libbie H. Hyman Memorial Fund for student course work or research at a laboratory, and ensuring our key role in the continued formulation and pursuit of the Grand Challenges in Organismal Biology set forth by our Society. I am student-centric and believe that the continued success of the DIZ depends on our attracting undergraduate, graduate and postdoctoral students to participate in the annual conferences and working to ensure there are workshops available that relate to

their career goals. I would also encourage long-time DIZ members who rarely attend the conferences to consider returning to the fold. Many underestimate the significance and extent of their impact on promising early-career scientists.