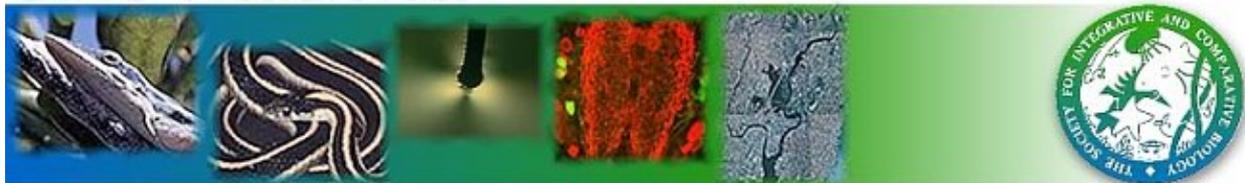


SICB Newsletter



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Message from the President

For 2006 and future annual meetings the Executive Committee has decided that the Abstract Book and the Program Book will be published separately. The Abstract Book will be downloadable from the web prior to the meeting and you will receive it as a CD with your registration materials. The Program Book will also be downloadable from the website prior to the meeting. [\[Read more\]](#)

Message from the Treasurer

SICB supports many students presenting papers or posters at the meeting with either complimentary housing or registration in return for various types of work–assistance. I think it's safe to say that the \$90,000+ in student support this year speaks exceptionally well of the Society in terms of the importance it places on its students. [\[Read more\]](#)

Message from the Program Officer

Starting with the 2006 meeting, students who have already received a first place award in any division will be ineligible to compete for another award in any division in that same format (i.e. talk or poster) in subsequent years. For example, an individual who has already won first place for a talk (in any division) could subsequently compete for a poster award in any division but not for a talk in any division. [\[Read more\]](#)

Message from the Secretary

The secretaries have been working hard to improve the usefulness of the SICB division webpages. Please view your division's pages and send your division secretary any ideas for further improvements. I would also like to draw your attention to a new feature: division bulletin boards (<http://sicb.org/phpBB2/index.php>). [\[Read more\]](#)

Message from the President

Sarah A. Woodin

I hope all of you enjoyed the meeting in San Diego. As we have come to expect from SICB annual meetings, the symposia, contributed sessions and poster sessions were superb and diverse and stimulated considerable debate that went on into the night and sent many of us back home to try new techniques or experiments. The next meeting is in Orlando in 2006 and the following meeting is in Phoenix in 2007 with San Antonio in 2008. We had hoped to go to Mexico in 2007 but that was not possible and we owe a debt to Sue Burk, and her staff for finding an alternative at short notice. The meeting in San Diego again had approximately 1500 registered attendees (1459 versus 1529 in New Orleans) with almost one-half of the speakers graduate students and post-docs who hopefully will stay with us for years to come. Kate Loudon and the Division Program Officers did a superb job organizing the meeting and we owe them all a huge debt of gratitude for their expenditure of time and energy.

Several very important items were initiated during the meeting to which I wish to draw your attention. First, the strategic plan initially drafted during the term of Marvalee Wake as President was approved—look at it on the SICB webpage. Second, we finally resolved the issue of Abstracts. For years they have been published in the society's journal, often delaying that issue and causing other problems. The Abstract Book itself is huge and awkward to carry at the meeting but necessary since the Program is imbedded in it. For 2006 and the future the Executive Committee has decided that the Abstract Book and the Program Book will be published separately. The Abstract Book will be downloadable from the web prior to the meeting and you will receive it as a CD with your registration materials. If you wish a printed copy, you can request that at the time of pre-registration for the meeting at additional cost. The Program Book will also be downloadable from the website prior to the meeting plus you will receive a printed copy with your registration materials at the meeting. We will do what is necessary to continue to make the Abstracts citable documents. Third, we resolved to issue a request for bids to a number of publishers as well as to Allen Press, our longtime printer, to begin the process of evaluating whether we should change from using a printer to using a publisher. You should all have received an email message from me giving the specifications on this action and several of you have provided useful feedback. Those bids are due within several weeks at which point the committee tasked with evaluating them (myself, SICB Treasurer Ron Dimock, SICB Executive Director Brett Burk, Editorial Board member Dave Borst, and SICB President-Elect John Pearse) will begin discussions. As this unfolds we will continue to keep you the membership informed both via the website and via email. Clearly it is the meeting which drives the knowledge property that we sell via the journal and it is important that the journal continue its tradition of quality and wide readership and access.

An important component of SICB for years, the Education Council has been revitalized through the Digital Library initiative started by Trish Morse and tied to the BENN Library of AAAS. The first SICB component is on biomechanics and will soon to be up and running on the SICB website, see their report for details and future plans. Additionally the Conservation Committee has been revitalized and has plans to become a force at the meetings in the near future.

SICB has a long and distinguished history as an advocate for diversity while women were becoming established as scientists. Through the efforts of Dianna Padilla and Flo Thomas and later Zoe Eppley and Margaret Rubega and Bobby Espinoza and others and with initial funding from NSF, the Diversity Committee was established as an ad hoc committee to do a series of pilot studies on increasing the minority representation at SICB. Those pilots have been quite successful and there will be a vote to establish the Diversity Committee as a standing committee of SICB and hopefully further those efforts.

Finally, SICB prides itself on nurturing young scientists, making the meeting accessible financially as well as emotionally. One of the principal means by which we do this is by providing significant reductions in housing

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and registration. Meeting costs however are increasing and the demand for such aid has also increased very significantly, tripling our costs in this area over the past four years. As a result at the Orlando meeting we will continue to provide housing for students who spend time being assistants at the meeting but with a co-pay of \$75 or less. I would be remiss if I did not especially thank Brian Tsukimura and the Student Support Committee for their dedicated hard work reviewing many proposals (another record) for grants-in-aid of research and travel for graduate students. SICB hopes to continue to expand its support of young members of the Society, nurturing integrative and comparative biology for generations to come. To aid this, there is an easily accessible "donate" button on the website. Support of students in SICB depends almost entirely on such sources of funds; so, please give generously and often!

I think all of us who were at the San Diego meeting would agree that SICB continues to be a vibrant intellectual force where discussions occur across the breadth and depth of biology. I look forward to seeing you all in Orlando in January 2006 and I want to thank again all the members from now Past-President John Wingfield and Past-Past-President Marvalee Wake and Treasurer Ron Dimock and Editor John Edwards to all the others who labor for the Society both at the meeting and during year to make SICB what it is.

Sally Woodin

Message from the Treasurer

Ron Dimock

The Annual Meeting in San Diego has come and gone and was in my opinion by all measures a great success (except for the bloody cold, rainy Southern California weather!) The attendance was just short of the recent record in New Orleans, and continued the trend of excellent participation by students and post-docs. As President Woodin will note, the Society owes a debt of appreciation to Kate Loudon and the divisional program officers for assembling an excellent program.

As most of you know, the Society supports many students presenting papers or posters at the meeting with either complimentary housing or registration in return for various types of work-assistance. This year 286 students received a total of about \$46,800. That number of students is up slightly from the meeting in New Orleans (275), but cost the society about \$3000 less since San Diego was a little less expensive. In addition to this element of student support, the Society currently funds the Grants in Aid of Research program at \$24,000 per year, the Fellowships for Graduate Student Travel at \$6000 and the Graduate Student-Post-Doc luncheon at about \$18,000. I think it's safe to say that this \$90,000+ in student support speaks exceptionally well of the Society in terms of the importance it places on its students. Obviously this is money well spent if many of these students ultimately remain long-time members of the Society. However, with the expanding number of students requesting complimentary housing/registration, the Executive Committee voted to institute a modest co-pay (capped at \$75) for students receiving such aid at future annual meetings. The Student Support Committee will handle the details of this plan.

The Society remains in good financial condition. Although the audit for 2004 is not yet complete, nor are the 1st quarter reports on the budget and the investment accounts at LPL Financial Services available at the time I'm writing this, all indications are that we will have finished 2004 solidly in the black, and are off to a good start in 2005. The February statement from LPL indicates that our mutual funds are up about 1.5% for February compared to January 31. If that pattern were to hold, it would translate into a very respectable annual return. The Real Estate Investment Trust with Inland Corp also continues to do very well. In fact, if the prediction from our financial advisors is correct that this REIT will go public in 2005, SICB stands to realize a substantial capital gain.

We continue to be cautious, however, and the Finance Committee has not invested the remaining sum with LPL that was authorized by the Executive Committee in 2002. The reason for that caution is several fold, but is influenced primarily by a budget for 2005 that could be as much as \$75,000 in the red, and the continuing concern about the journal and journal income. As President Woodin will describe, the production of the journal (*Integrative and Comparative Biology, ICB*) is currently under review. Requests for proposals have gone out to a series of publishers to investigate whether or not SICB will elect to change from the current arrangement of having Allen Press print the journal to having a company (perhaps even Allen Press) publish and promote the journal, much as several other societies do. One further measure to reduce the pending overrun of the 2005 budget, and that was approved by the Executive Committee in San Diego, is raising the registration fee at the annual meeting to \$225 for full members. This is a \$30 increase and is required in part to offset the substantial Audio/Visual expenses incurred by changing over to PowerPoint presentations and computer switching systems, all of which seemed to work especially well at San Diego.

As was noted in my report to the Executive Committee and at the Business Meeting in San Diego, Mr. Matt Tederick of LPL Financial Services, who has very ably overseen the management of the Society's portfolio, has left that company. Brett Burk and I met two weeks ago with Mr. Robert Earls, also of LPL Financial, and Matt Tederick, to consider keeping the Society's assets with LPL but under the management of Mr. Earls, who has worked closely with Matt for several years and whom Matt strongly recommended that the Society retain.

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As a result of that meeting, Brett and I are very comfortable making a transition to Mr. Earls, and since President Woodin agreed, we have authorized that change in management. One distinct advantage to this arrangement is that there is no need to convert or otherwise transfer any of the assets Matt was overseeing. Furthermore, Matt has agreed to assist Robert in any way he can over the next several months as he becomes fully familiar with the Society's assets and investment philosophy.

Finally, I would like to encourage everyone to visit the SICB homepage and consider making a contribution via the donation link. I would also encourage members to consider Life Membership as an additional way of assisting the Society.

Message from the Program Officer

Catherine Loudon

The 2005 SICB meeting in January in San Diego featured another outstanding set of presentations on diverse topics, and thanks to all of the presenters, symposium organizers, the other members of the Program Committee (the Divisional Program Officers and representatives from other affiliated societies), the SICB webmaster, and the excellent staff of Burk and Associates for making it such a positive experience for so many individuals.

Room size assignments for sessions

While we received many positive comments about the quality of the talks and the poster sessions, as well as the relatively small number of conflicts, there were clearly some mismatches between room sizes and attendance in some of the sessions. In order to improve our predictions for attendance, we did gather data for the first time at the 2005 meeting (head counts were taken by the student workers at different times in the different sessions, for all contributed sessions and symposia) to help us make more accurate guesses for the 2006 meetings. The room assignments are made at the Program Planning meeting (in the fall before the annual meeting) by the full Program Committee after scheduling all of the sessions to minimize scientific overlap as much as possible (there are usually about a dozen simultaneous sessions at all times). The procedure for making the room assignments is to consider all of the simultaneous sessions, sort them in order of estimated attendance, and then pair sessions with the available rooms. In addition we try and put sessions closer to each other (physically) if we expect that attendees may be going back and forth between them. We do intend to make the head counts a regular part of the student worker assignments.

Contributed sessions that are associated with symposia

Another first for the 2005 meeting was that all symposia had the option of associated contributed sessions (both posters and contributed talks). This meant that during abstract submission, a presenter of a contributed talk or poster could choose to be associated with a symposium (the sessions were identified as such in the program). This option was extremely popular with both symposium organizers and presenters, as it allowed a symposium to expand beyond the confines of the small set of invited speakers. We plan to continue this new option for the 2006 meeting.

Changes in Best Student Paper policy

Starting with the 2006 meeting, students who have already received a first place award in any division will be ineligible to compete for another award in any division in that same format (i.e. talk or poster) in subsequent years. For example, an individual who has already won first place for a talk (in any division) could subsequently compete for a poster award in any division but not for a talk in any division. Similarly, a student presentation may only be entered for a single award in a single division at any given meeting (so a poster may be entered for a best poster award in one division and a talk by the same student may be entered for a best talk award in the same or another division at the same meeting, but a single poster may not be simultaneously considered for awards by two different divisions). Divisions are encouraged to include former awardees in judging.

Changes in DCPB, DEE, and DIZ bylaws recommended by the Program Committee

The Program Committee unanimously recommends a change in policy regarding the Best Student Paper award that will necessitate voting by three of the nine SICB divisions (DCPB, DEE, and DIZ). Specifically, the Program Committee recommends that those three divisions eliminate the divisional affiliation requirements that they have for their Best Student Paper awards (this requirement is in the bylaws of these three divisions) because of the difficulties of enforcing such requirements. These are the only three divisions (out of the nine divisions that offer some sort of Best Student Paper award) that have divisional affiliation requirements. Because individuals can register for the meeting after they submit abstracts, new student members (or lapsed student members) are not members of any division when they submit their abstracts, and so a divisional affiliation requirement cannot be required at abstract submission, but must be communicated to the student. At the Program Planning meeting at the beginning of the fall (which occurs immediately after abstract submissions end but before registration ends), all student competitors are scheduled so that individuals competing in any division are not scheduled at the same time (to make it easier for the judges of any division to make all of the talks). Fully 50% of the entries in one large division were subsequently found to be ineligible (either because the students didn't know which division they were in or they did not understand or follow the divisional requirement). The Program Committee would regret the necessity of having to eliminate students from competition because of the divisional affiliation rules, but it is extremely time-consuming to communicate with the network of students, division judges, and division officers to bring everyone into compliance. Each division does administer its own student award competition, and chooses how many awards, what kind of awards, the amount of the awards, and the criteria for choosing awardees, and this would not change.

SICB 2006 in Orlando and beyond

Looking ahead to the 2006 meeting in Orlando, I am happy to report another set of stimulating and diverse symposia. Please see the SICB website for a list of these symposia. The complete program for the 2006 SICB meeting will be finalized in October 2005 at the annual Program Planning Meeting, which is also when symposia for 2007 will be chosen. Symposia are now planned over a year ahead of time, allowing the symposium organizers time to prepare their symposia and apply for funding. Therefore, it is time to look ahead to our 2007 meeting in Phoenix, and many individuals are already working on symposium or workshop ideas for that meeting. You are encouraged to discuss symposium ideas with your divisional program officers and incoming Program Officer Linda Walters (ljwalter@pegasus.cc.ucf.edu) and submit a symposium proposal (<http://sicb.org/meetings/2007/index.php3>; deadline August 19, 2005). More information about symposium proposal submission appears on the SICB website.

I look forward to seeing you all in Orlando in January 2006!

Message from the Secretary

Sunny K. Boyd

Our most important matter of business with this, the Spring Newsletter, is the elections. Biographies for candidates for society-wide and division offices are included in this newsletter. Please support the society by participating in the election process.

A draft of the minutes from the 2005 business meeting in San Diego has been posted ([see below](#)). Please read the minutes and write me (boyd.1@nd.edu) if you have corrections, additions, or other comments. We will vote on acceptance of the minutes at the 2006 business meeting.

The secretaries have been working hard to improve the usefulness of the SICB division webpages. Please view your division's pages and send your division secretary any ideas for further improvements. We would like to keep these pages vital, interesting and ever-changing. Thus, division secretaries are always happy to receive new material (eg, photos, video clips, news of breaking research stories) for incorporation on the webpages. With this newsletter, I would also like to draw your attention to a new feature: division bulletin boards (<http://sicb.org/phpBB2/index.php>) . We hope that this mechanism will increase the involvement of members in division business throughout the year. Please have a look at the bulletin board discussion items currently posted and feel free to comment. Contact me or your division secretary if you have an idea for a new forum specific to your division. We can help you create it.

Finally, I urge you to educate yourself about an important new direction in scientific publication. On February 3, 2005, the National Institutes of Health issued its new policy on "open access" to publications resulting from NIH funded research. You can view this policy at: <http://grants.nih.gov/grants/guide/notice-files/NOT-OD-05-022.html> . Even if your own research is not funded by NIH, it is likely this policy will impact your program. This policy may eventually be followed by other granting agencies, it may significantly change how the publishing industry does business, and it may jeopardize the health of societies (such as SICB) which depend on journal revenue.

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SICB Business Meeting Minutes

January 7th, 2005

The meeting was opened at 17:15 by President John Wingfield.

I. MINUTES

Secretary Boyd commented that we need to approve the minutes from the 2004 meeting. The minutes were approved by a majority of members present. Boyd added that the bylaws for the Society are in good shape but the bylaws for divisions need some attention. The plan is to have an online bulletin board by February. This bulletin board can be used by divisions to discuss possible bylaws changes, before future voting on those changes.

II. REGISTRATION NUMBERS

Program Officer Loudon announced that the numbers for the 2005 meeting are 1459 registrants as opposed to 1529 in 2004 (which was a record for recent years). Loudon thanked the judges, session chairs, and members of the program committee. It was noted that attendance over about 1,200 is considered a large meeting.

III. TREASURER'S REPORT

Treasurer Dimock commented that our assets as of the last fiscal year audit were on the order of \$1.5 million, but we have some upcoming challenges to consider. SICB is in much better financial shape than 10 years ago. Among some of the problems, however, are revenues from the journal, as these continually decline. Investments are going well but our return is unrealized. Student Support costs continue to increase. There has been a change in attitude from NSF for funding some symposia, which may have a negative impact. Dimock continued by explaining that student support costs SICB \$46,800 this year. It would have been higher, except Sue Burk negotiated a good rate for this meeting. Investments have gained 19% over the past few years (during the same period the S&P was up only 5%). Hopefully, this trend will continue.

IV. FINANCES/JOURNAL

President Wingfield commented that the Society has done well overall. However, finances change and we are facing a shortfall this year. In the future, lunches might not be so elaborate. Also, we have reduced dues over the last 10 years, but we may have to increase dues again. We will try to protect student rates. It is possible that we will increase registration for full members and will also add a line for donations to Student Support onto the membership renewal. He continued by explaining that revenue from the journal is declining due to loss of print-based institutional subscriptions.

V. FUTURE MEETINGS

The 2006 annual national meeting will be held in Orlando, FL. The 2007 meeting venue is not finalized but Tucson and Phoenix are on the short list. The 2008 meeting will be in San Antonio.

VI. THANK YOU

Thanks to the Executive Committee, BAI & Staff (drop by registration desk and thank the BAI staff). Thanks to Ruedi, Bill Kier, Billie Swalla, Rich Satterlie, Mike Dickinson, Miriam Ashley–Ross, Stacia Sower, Sally Woodin, Frank Fish, Robin Cooper, Mary Alice Coffroth and Marvalee Wake.

VII. Presentation by Cliff Cunningham on NESCENT

VIII. Presentation by Trish Morse on Digital Library

Adjournment 18:05

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Society–Wide Elections

Candidates and Biographies

Click on a candidate's name to jump to her/his biography and statement.

Candidate for Treasurer

- [Ronald V. Dimock, Jr.](#) (incumbent)

Candidates for Chair of the Education Council

- [Robin L. Cooper](#)
- [Peter H. Niewiarowski](#)

Candidates for Member–at–Large

- [John H. Long, Jr.](#)
 - [Patrick Reynolds](#)
-

Candidate for Treasurer–elect

Ronald V. Dimock, Jr. (incumbent)

Current Position: Wake Forest Professor of Biology, Department of Biology, Wake Forest University, Winston–Salem, NC.

Education: BA, University of New Hampshire, MS, Florida State University, PhD, University of California, Santa Barbara.

Professional Experience: Chair, Department of Biology, Wake Forest University 1984–1990; Assistant Professor to Professor 1970–83; named Wake Forest Professor of Biology, 2002; Visiting Professor (summers, Marine Invertebrate Zoology), Duke University Marine Laboratory 17 years; Visiting Scientist, MBL, Woods Hole, 1971; Visiting Professor, University of Amsterdam, 1983, University of Sydney, 1998.

SICB Activities: Member since 1967. Currently Treasurer (2nd term) 2004–2007; Nominee, Chair, Div. Ecology, 1982; Nominee, Chair, Div. Invert. Zool., 1987; Nominee, Member–at–Large, Executive Committee, 1994; Chair, numerous paper sessions.

Other Memberships: Past–President, American Microscopical Society, Past–President and former Treasurer, NC Academy of Science; American Malacological Society; Association of Southeastern Biologists; Sigma Xi.

Research Interests: Physiology, behavior, functional morphology and development of the freshwater mussel family Unionidae, one of the largest taxa of endangered or threatened animal species in North America. We apply video–endoscopy, fluorescence/Confocal/SEM and physiological techniques to basic questions concerning this poorly studied taxon.

Goals Statement: Having been a member of ASZ/SICB since I was a beginning graduate student, I

understand and appreciate the role and importance of graduate students and post-docs as the life-blood of the Society's future. The very encouraging level of participation by these groups in recent annual meetings underscores the obligation of SICB to ensure that it remains one of the most comprehensive and truly integrative professional societies, serving its membership well. The fiscally sound position of SICB must be maintained, and should facilitate on-going and innovative initiatives to insure the broadest participation of young biologists while maintaining an effective forum for seasoned scientists. I look forward to helping sustain that effort.

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Candidate for Chair of the Educational Council

Robin L. Cooper

Education: BS Chemistry & Zoology; PhD Physiology, Texas Tech Med School; 1st Postdoc 3 yrs at Univ. of Basel, Biozentrum, Basel, Switzerland; 2nd Postdoc 4 yrs at Univ. of Toronto, Dept. Physiology, Med School.

Professional Experience: 1996–2000 Assistant Prof. Univ of KY; 2000–present, Associate Prof, Univ. of Kentucky, Dept. of Biology. Related experience in science education relates to developing and founding the Central KY Regional Science and Engineering Fair, Inc. This provides an opportunity for 33 counties in KY to send K4–12 students to compete in an INTEL–ISEF recognized science fair. I am the director of the fair. This involves contact time with science teachers and their students as well as organizing many school fairs to insure their students proceed on to the Regional Fair.

SICB Activities: 1998–2001 (3 yrs) Secretary, Division of Neurobiology (DNB); 2003–2005 (2 yrs) Chair, Division of Neurobiology (DNB)

Other Memberships: Society for Neuroscience; Amer. Physiological Society; Caving groups; and various environmental conservation groups. Served Member at Large (1998–1999) and President (2002–2003) for Society for Neuroscience–Kentucky chapter. Served as Secretary (2002–2003) for the Blue Grass Grotto (BGG). This is a caving club branch of the National Speleological Society. The BGG is concerned with conservation and education of the public about caves within KY. Now serving a three year term (2004–2007) as a Director for the Blue Grass Grotto.

Research Interests: Modulation of synaptic transmission in invertebrate preparations.

Goals Statement: To help promote dissemination of biological information to the general public primarily through www based resources through SICB. To encourage participation of science teachers, high school students and undergraduates in SICB sponsored events. I plan to link the Intel science programs, Discovery channel and Science Service in D.C. with SICB events.

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Candidate for Chair of the Educational Council

Peter H. Niewiarowski

Current Position: Associate Professor, Program in Evolution, Ecology and Organismal Biology, Department of Biology, University of Akron

Education: B.S., Biology Marlboro College, Marlboro Vermont, 1984; Ph.D. Ecology and Evolutionary Biology, University of Pennsylvania, Phila. PA, 1992

Professional Experience: Asst. Prof. Biology University of Akron, Akron OH 1995–2001; Postdoctoral Research Associate, SREL, Aiken SC, University of Georgia 1993–1995; Software Developer, Hutchinson Associates, 1992–1993

SICB Activities: Member since 1995; no committee memberships to date

Other Memberships: SSE, ASN, ESA, SSAR, ASIH

Research Interests: Ecology and Evolution of life history traits in general and in reptiles specifically (focusing much of my work on the eastern fence lizard, *Sceloporus undulatus*), including related fields of biophysical and physiological ecology. Also, over the last 10 years I have studied population dynamics (pattern and process) in amphibians, particularly species in the genus *Ambystoma* (mole salamanders). I have become increasingly interested in the intersection of studies of life history variation and population dynamics especially as it relates to the development and testing of theory.

Goals Statement: I am particularly interested in the ways that the education committee could continue to promote an 'integrative' approach to graduate training in biology that includes disciplinary integration but also applies more broadly. For example, I believe there are analogies to be drawn and explored between the disciplinary integration the society strives toward and the way we view the place of graduate education within the larger framework of K–12, undergraduate, graduate and post–graduate training. Such a view could have obvious and important impacts on other work by the society (e.g., an integrated view of graduate training within the broader educational context should positively influence an understanding of evolution and how it is taught throughout the curriculum spanning K–12 through post–graduate work).

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Candidate for Member–at–Large

John H. Long, Jr.

Current Position: Professor of Biology, Cognitive Science, and Neuroscience & Behavior, Vassar College.

Education: Ph.D. Duke University; B.A. College of the Atlantic

Professional Experience: 2004 to present: Professor, Vassar College. 1998 to 2004: Associate Professor, Vassar College. 1991 to 1998: Assistant Professor, Vassar College. Administrative Appointments at Vassar College: Director, Undergraduate Research Summer Institute (2001 to 2003); Director, Program in Neuroscience and Behavior (1999 to 2000); Director, Community Works Campaign (2003 to 2004). Member of the Executive Committee, International Society of Vertebrate Morphology (2001 to 2004). Panelist, Cross–disciplinary Research at Undergraduate Institutions, National Science Foundation (2003).

SICB Activities: Member since 1988, with primary divisional affiliations in Vertebrate Morphology and Comparative Physiology & Biochemistry. 1998 to 2000: Secretary, Division of Vertebrate Morphology. 1999: Organized symposium (co-organizer was Tom Koob), "The Function and Evolution of the Vertebrate Axis;" won funding from NSF for participants. 1995: Co-organized symposium (organizer was George Lauder), "Aquatic Locomotion: New Approaches to Invertebrate & Vertebrate Biomechanics." 1994: Chair, Dwight Davis award committee for DVM.

Other Memberships: International Society of Vertebrate Morphology; Sigma Xi; Society of Vertebrate Paleontology; Oceanic Engineering Society (Institute of Electrical and Electronic Engineers).

Research Interests: I'm interested in the mechanics and evolution of swimming behavior in vertebrates. Work in my laboratory and with collaborators integrates biomechanics, physiology, morphology, computer simulation, and robotics. (Details available at faculty.vassar.edu/jolong/vertebrae.html)

Goals Statement: While our By-Laws have little to say about the exact duties of the member-at-large, I interpret the role to include, as primary responsibility, representing the interests of the membership in the executive committee. To do so, I'll seek your feedback about how well the Society is (1) serving your needs as an individual researcher and educator, (2) creating and revising SICB's goals, (3) accomplishing SICB's mission (see our proposed mission statement at www.sicb.org/handbook/plan.php3), and (4) managing budgets, meeting logistics, web presence, and our scientific publications.

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Candidate for Member-at-Large

Patrick Reynolds

Current position: Associate Professor, Biology, Hamilton College, NY; 1998–present

Education: 1983 B.Sc.: Zoology, University College Galway, Ireland. 1991 Ph.D.: Biology, University of Victoria, Canada.

Professional Experience: Assistant Professor, Biology, Hamilton College, 1992–98; Research Associate/Visiting Post-doc, Inst. Marine Sciences, UC Santa Cruz, 1990–92; Lecturer, Integrative Biology, UC Berkeley 1990, 1991.

SICB Activities: Member (from 1987); presentations/abstracts in several years. DIZ: Student Best Paper Award Panel (1998, 1999); Nominating Committee (2005); Editor (2004–present), Co-editor (1997–2003) of *Invertebrate Biology*, journal of the American Microscopical Society and DIZ/SICB. DSEB: Secretary (2004–2006); Nominating Committee (2004).

Other Memberships: American Association for the Advancement of Science, American Malacological Society, American Microscopical Society, Council of Science Editors, Malacological Society of London, Society for the Study of Evolution, Society of Systematic Biologists, Willi Hennig Society.

Research Interests: Functional morphology and evolution of invertebrates, particularly the Mollusca; comparative studies addressing the evolution of organ systems and clades using morphological and molecular systematics.

Goals Statement: Having been a member of SICB since early graduate days, I would be honored to serve

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the society as Member-at-Large. I support SICB because of its strength in bringing biologists from diverse fields to a single organization that emphasizes their cross-disciplinary interests. As Member-at-Large, I would aim to facilitate communication between the membership and the Executive Committee, and work to maintain our strong commitment to students and symposium quality. I am also very interested in the issues confronting the society's journal, having recently addressed similar issues in the DIZ/ AMS journal *Invertebrate Biology*, and would look forward to contributing to the planning for Integrative and Comparative Biology in the Member-at-Large role.

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The SICB Digital Library

By Trish Morse, SICB Past President

Our Society is establishing an electronic library whose mission is to provide peer-reviewed instructional materials, resources and activities in integrative and comparative biology for faculty; the material should enhance undergraduate education at two- and four-year colleges and universities. SICB is one of the founding professional societies whose libraries will be brought together on the AAAS Bioscience Education Network ("BEN"). The Library is organized under the SICB Education Council, and is overseen by the SICB Digital Library Advisory Board.

Materials are being solicited for the library with the following principles: Undergraduate education in integrative and comparative biology should take advantage of current pedagogical and scientific research. Peer-review will ensure material of dependably high quality. Effective learning requires clear expectations of what students are expected to learn together with reliable assessments of outcomes. Student-initiated and -directed inquiry typically underlies effective learning. Hands-on activities, collaborative investigations, and innovative uses of technology improve the learning environments for both students and faculty.

At the annual meeting in San Diego, a framework for the Digital Library (SICB-DL) was presented to the Executive Committee and to the membership at the Divisional Business meetings. The Advisory Board has established the architecture of the web-based submission and review system under the guidance of Ruedi Birenheide, SICB webmaster.

Websites for a series of topics with an editor and board of reviewers are currently under development. The first topic is biomechanics and the co-editors are Rachel Merz (Swarthmore College) and Steve Vogel (Duke University). Active solicitation of materials is underway, and several items have been posted. We invite you to go to the site (<http://www.sicb.org/dl>) and to consider submitting material. Sites for two other topic areas, environmental endocrinology and evolution-development ("Evo-Devo") are currently being organized. These sites should take advantage of the unique strengths of SICB, in particular the heavy involvement of its members in undergraduate teaching and, concomitantly, the development of instructional material. It should go far to ensure that such material serves more than local needs and to encourage members to invest time and energy in developing new material.

Luc Devroye, Brian Hall, Linda Hutcheon, Margaret Lock and Nahum Sonenberg to receive \$100,000 Killam Prizes for 2005

Ottawa, March 30, 2005 – Five prominent scholars from McGill University, Dalhousie University and the University of Toronto will be honoured with the 2005 Killam Prizes, Canada's most distinguished annual awards for outstanding career achievements in engineering, natural sciences, humanities, social sciences

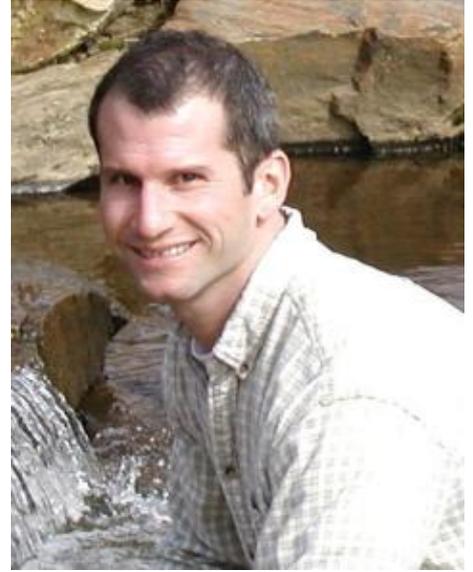
and health sciences.

The \$100,000 awards to Luc Devroye, Brian Hall, Linda Hutcheon, Margaret Lock and Nahum Sonenberg were announced today by the Canada Council for the Arts, which administers the Killam program. **[Read more]**

Committee Reports

- Student/Postdoctoral Affairs Committee
-

Student/Postdoctoral Affairs Committee



Shea Tuberty, Chair

As the new SPDAC chair this year, I have rallied a team of enthusiastic divisional representatives at the San Diego SICB meetings and we have already begun planning for the next meetings in Orlando. Please see the list of new and returning divisional reps and the agenda for the SPDAC workshops below. After reading over the workshop ideas, if you know of anyone that you would like to nominate for a workshop panel position please forward that name to myself or your division rep. This would be a great way to provide some well-deserved kudos for your hard-working faculty mentors or provide a venue to show off your favorite professor, postdoc, or mentor with the rest of the SICB student membership— sense of humor is appreciated!

Also of general interest, this year SPDAC will revamp the "First-timers Orientation" and make it a more informative program for both returning members and newbies. It will be entitled "The SPDAC Welcome and SICB Meeting Orientation." Please see the list of material to be covered below. Suggestions for further materials to be included are welcome!

Membership

Chair: 2004-'07

Shea Tuberty

Appalachian State University

Assistant Professor

tubertysr@appstate.edu ; (828) 262-6857

Divisional Representatives

Animal Behavior: 2005-'08

Lawrence Spezzano

Miami University (of Ohio)

Graduate student

spezzalc@muohio.edu

Comparative Endocrinology: 2004-'07

Darren Lerner

University of Massachusetts, Amherst

Graduate student

dlerner@forwild.umass.edu

Comparative Physiology and Biochemistry: 2005-'08

Joanna Joyner-Matos

University of Florida

Graduate student

jjoyner@zoo.ufl.edu

*Developmental and Cell Biology: 2004-'07

Candace McGuinness

University of South Carolina

Graduate student

timcandace@bellsouth.net

Ecology and Evolution: 2004-'07 Sofia Hussain

University of South Florida

Graduate student

smhussai@mail.usf.edu

Evolution and Developmental Biology: 2005-'08

Nathan Bird

George Washington University

Graduate student

nbird@gwu.edu

Invertebrate Zoology: 2003-'06

Ben Miner

Bodega Bay Marine Lab

Postdoc

bgminer@ucdavis.edu

Neurobiology: 2004-'07

Mark Frye

California Institute of Technology

Postdoc

frye@caltech.edu

Systematic and Evolutionary Biology: 2005-'08

Rena Bryan

University of Florida

Committee Reports

Undergraduate
renabr@ufl.edu

*Vertebrate Morphology: 2005-'08
Russell Main
Harvard University
Graduate Student
rmain@oeb.harvard.edu



The 2004 Student/Postdoc Luncheon attracted a record number of attendees!

WORKING AGENDA FOR THE 2006 SICB MEETINGS IN ORLANDO FLORIDA

The SPDAC Welcome and SICB Meeting Orientation. (First day of meetings)

A) We will discuss some tried and true ideas on "*How to get the most out of your SICB meeting.*" Powerpoint presentation with bulleted info including:

- i. How to find relevant talks/posters during the meetings
- ii. How to find everyone at the meetings – This should focus on the importance of schmoozing with the PIs, hobnobbing/socializing
- iii. How to approach a "big guy or gal"
- iv. How to enter or leave a room/move between rooms
- v. How to plan your meeting
- vi. How to get involved in SICB or attend business meetings and the importance of attending the meetings (exposure, recognition).

B) Lightning round of 1st timers' questions.

SPDAC Free Lunch (Second day of meetings) This is the time to introduce ourselves to the majority of student/postdoc membership.

The Student Support Committee Chair and President of SICB will address students with a report of support programs.

Annual meeting of SPDAC held during/after this hour

Workshops (Last Evening of meetings)

Two workshops are being planned and will be held one after the other 6:00–7:00pm; 7:00–8:00pm

Workshop #1: *"Optimizing Your Graduate School Experience"*

- i) dealing with funding your graduate studies (even after TAships expire)
- ii) finding a good mentor (CUR, COS, societies, web listservers)
- iii) getting research funding as a graduate student
- iv) getting to meetings and making future connections (aka, networking)
- v) building your CV to impress future hirers
- vi) how to get the "right" postdoc for the "right" job

Perhaps this will be paneled by postdocs? We definitely encourage students to attend both.

Workshop #2: *"Strategies for Landing an Academic Job/Postdoc"*

- i) Differences in the requirements for an RO1, comprehensive, and undergraduate liberal arts college (or hybrid of the above) resume.
- ii) Paneled by new and senior faculty SICB members from each of the 3 levels of academic institutions.
- iii) Each group will give a basic level of research/teaching/service expected at their college or university.
- iv) A question and answer session will follow up the panel discussions.

Keep an eye on the Student Postdoctoral Affairs Committee The SPDAC has some new developments underway, including the development of an SICB web-page specific to the interests of students & postdocs!

USEFUL WEBSITES FOR SICB's STUDENT AND POSTDOC MEMBERS

- SICB's Student/Postdoctoral Affairs Committee (this site currently only lists contact information of the Committee Members, so look for future developments!):
<http://www.sicb.org/committees/studentpostdoc.php3>
- Sigma Xi : Grants-In-Aid of Research – March 15 and October 15 deadlines annually.
(<http://www.sigmaxi.org/programs/giar/appopen.shtml>)
- Natl. Acad. Sci. USA: Web Guide to Enhancing the Postdoctoral Experience:
<http://www4.nas.edu/pd/postdoc.nsf>
- Natl. Acad. Sciences USA "Postdoc Resources":
<http://www4.nas.edu/pd/postdoc.nsf/web/resources?OpenDocument>
- "Postdoctorate.net": <http://www.postdoctorate.net/>
- "Postdoc Jobs Online" (&University Job Bank): <http://www.post-docs.com/>
- "University Job Bank": <http://www.ujobbank.com/>
- Science Careers webpage: <http://recruit.sciencemag.org/>

If you know of other useful sites for the student/postdoc membership or you would like additional information, contact the Student/Postdoctoral Affairs Committee Chair (tubertysr@appstate.edu) or see the Committee's SICB webpage (given above)

SICB 2004 in New Orleans: Rockin' Dopsie
and the Zydeco Twisters at the
Society-Wide Evening Social in Honor of
Students and Postdocs



Division of Animal Behavior (DAB): 2005 Spring Newsletter

- [Message from the Chair](#)
 - [Message from the Graduate Student/Postdoc Representative](#)
-

Message from the Chair

Scott MacDougall-Shackleton

Happy spring, and I hope everyone had a great time in San Diego despite the wet weather. I would like to thank the membership for the high level of participation this year at the DAB social/business meeting, and indeed throughout the meeting. I think the combined social and business meeting format worked well and I hope to make it a tradition. In Orlando I will try to make sure we have a room booked for a longer period of time to allow more time to socialize following the business part of the meeting.

Many of us are active in other divisions of the Society, so I appreciate your participation in DAB. Animal Behavior is one of the most integrative of fields in the life sciences, so it is important for it to have a strong home in the SICB. If you are interested in becoming active in the executive committee of the division, or would like to nominate one of your colleagues please do let us know. Besides serving as chair, secretary, or program officer another way to support the division is to propose and organize quality symposia such as 2005's "Mating Systems and Sexual Selection in Hermaphrodites". The deadline for proposals for the 2007 meeting in Phoenix is in August. There are straightforward directions on how to propose a symposium on the SICB web site.

Speaking of the web site, we are seeking ways to improve ours. Feel free to make suggestions and check back in the near future for updates. We have material from several of you for inclusion as "research blurbs" on the DAB website. Contact us if you would be interested in having your own research showcased, or would like to suggest that the research of someone else be showcased, on the website.

Finally, congratulations to our winners of the best student paper awards: Jacqueline Grant for best student oral presentation and Jennifer Lancaster for best student poster.

Message from the Graduate Student/Postdoc Representative

Lawrence C. Spezzano Jr.

Hello to all DAB graduate students and post docs!

I hope everyone is having a productive winter stimulated by the great research presented at our previous meeting in San Diego. At this meeting, DAB members Michelle Beck, Jamie Cornelius, Heidi Fisher, Jennifer Lancaster, Brooke Miller and Angela Rivera received SICB Grants-in-Aid of Research Awards and Mark

SICB newsletter Spring 2005

Laidre received the Fellowship of Graduate Student Travel (FGST) Award. Also, congratulations to Jennifer Lancaster and Jacqueline Grant for winning the Best Student Poster and Best Oral Presentation in 2005, respectively!

As a recent DAB member and representative of SPDAC, I am excited about future research endeavors and involvement "behind the scenes" during planning stages of the 2006 SICB conference in Orlando. SPDAC is feverishly hammering out the details for the upcoming meeting and one item of business was the Welcome and Meeting Orientation. Topics included workshops that advise 1) how to maximize the first meeting experience, 2) how to plan graduate and post-doctoral careers and 3) how to develop strategies for planning the next academic move. We encourage students of all levels to attend these workshops and may have one paneled by post docs to advise "from the trenches". For local flavor, we are scouring Orlando for local musical talent to perform during the Conference Social. Symposia topics are still being discussed, but they promise to be interesting.

Lastly, I look forward to interacting with researchers from this and other divisions of SICB. Many folks who attend summer conferences such as the International Congress in Behavioral Ecology do not know of or attend SICB. Perhaps, they are not aware of the DAB, or the integrative collection of research topics offered by this conference. I encourage each of you to spread the word among your friends and colleagues about the eclectic, student-friendly tone of SICB and invite them to get involved!

SICB also has a generous student support program for the annual meeting (<http://www.sicb.org/meetings/2005/studentssupport.php3>). Specifically, here are a number of organizations offer grants and fellowships that DAB students may want to consider:

- SICB Grants in Aid of Research, due Nov. 22nd. <http://www.sicb.org/awards.php3#giar>
- SICB Fellowship of Graduate Student Travel, due Nov. 22nd, which provides funds for travel and other expenses at distant research laboratories, museums or field sites. <http://www.sicb.org/grants/fgst/index.php3>
- SICB Libbie H. Hyman Memorial Scholarship, which provides assistance for students to take courses or to carry on research on invertebrates at a marine, freshwater, or terrestrial field station. Generally due in March. <http://sicb.org/grants/hyman/>
- Fall 2005 EPA Science to Achieve Results (STAR) Fellowships, which funds research grants and graduate fellowships in numerous environmental science and engineering disciplines. Closing date Nov. 23rd. http://es.epa.gov/ncer/rfa/2004/2005_star_grad_fellow.html
- Sigma Xi Grants-in-Aid of Research Program provides funding for the purchase of specific equipment necessary to undertake the proposed research project and travel to and from a research site. Proposals are due October 15th and March 15th. <http://www.sigmaxi.org>

I encourage anyone who has any questions or who'd just like to say hello to email me or stop me at the next conference.

See you in Orlando!

Lawrence

Division of Comparative Endocrinology (DCE): 2005 Spring Newsletter

In this newsletter:

- [Message from the Chair](#)
 - [Message from the Program Officer](#)
 - [Message from the Secretary](#)
 - [Message from the DCE Representative to the Student/Postdoctoral Affairs Committee](#)
 - [Candidates for Elections](#)
-

Message from the Chair

David Borst (dwborst@mail.bio.ilstu.edu)

The SICB Annual Meeting in San Diego was an exciting start for the New Year – there were lots of good presentations, keeping spirits high in spite of the wet weather. One particularly high point at the meeting for DCE members was the fourth annual Howard Bern Lecturer presented by Jim Truman. Jim's talk was entitled "Insect ecdysis: dissection of an endocrine cascade that underlies a complex program of behavior". The Bern Lecture series is supported by Elsevier and the SICB and it is an important addition to the SICB Annual Meeting.

Once again, our oral and poster presentations covered the full range of comparative endocrinology and represented some of the best work in our field. I want to thank our Program Officer, Kyle Selcer, for the fine job he did in organizing the program. Of some concern is the decrease in the number of presentations compared to previous meetings. Even more worrisome is the lack of DCE symposia this year and next. (We did co-sponsor the mini-symposium "Zoo-based Research and Conservation" this year, and will co-sponsor two symposia next year). I strongly encourage DCE members to propose symposia for our future meetings, since these presentations represent one of the most important activities of our Division. The lead-time for symposia is lengthy (about 18 months), so start planning now if you want to organize a symposium for the meeting in Phoenix (2007). If any of you have questions about organizing a symposium, please contact me or Kyle Selcer.

Pamela Elf chaired the student awards committee this year. Thanks to Pamela and the many judges for their help. There were 32 students competing for DCE awards this year and the competition was keen, making the final selections difficult. Our congratulations to all of the winners!

The **Aubrey Gorbman Award for Best Student Oral Presentation** was shared by Asaf Shechter (Ben-Gurion Univ.; *The expression and regulation of the vitellogenin gene in male Cherax quadricarinatus*) and Morgan Benowitz-Fredericks (Univ. Washington and the Univ. Alaska: *Yolk androgens in Black-legged kittiwakes: Consequences of food supplementation*). Honorable mention in this category went to Alan Vajda (Univ. of Colorado; *Reproductive disruption and intersex in white suckers (Catostomus commersoni) downstream of a Colorado wastewater treatment plant*).

The **Aubrey Gorbman Award for Best Student Poster Presentation** was shared by [Jamie Cornelius](#) (Univ.

of California, Davis; *Effects of food reduction on stress reactivity in an irruptive nomad, the red crossbill*) and Tom Small (Arizona State Univ; *Supplementary information, not photoperiod, regulates plasma luteinizing hormone in male Rufous-winged Sparrows*, *Aimophila carpalis*). Honorable mention in this category went to Christine Strand (Arizona State Univ; *Singing in the rain: Growth of the song control system in free-ranging adult male Rufous-winged Sparrows*, *Aimophila carpalis*)

As you are probably aware, a major problem facing the Society is the continuing erosion of institutional subscribers for our journal, *Integrative and Comparative Biology*. This drop has major consequences for the Society: not only is income from the journal important for the financial health of the Society, but reduced circulation will tend to marginalize the importance of papers printed in the journal. This could lead to a decrease in symposia quality. The Society is investigating ways to reverse the loss in subscriptions, including working with a publisher to help promote the journal. You will hear more about this directly from the Society in the next few months. I encourage you to read these messages closely and contact me if you have questions and/or concerns.

The DCE will be reviewing its By-Laws this year, in part to make the practices of our division conform more closely to those of the Society. I want to extend my appreciation to Sunny Boyd and Kevin Kelley for shouldering this task. Their proposed draft for changes to the By-Laws will be posted on the DCE electronic bulletin board. Please see Kevin Kelley's comments below.

This year, the Division will be select a Chair-elect and a Secretary-elect. We have two excellent candidates for each of these positions. Henry John-Alder and Stacia Sower have agreed to run for the Chair-elect position. Steve McCormick and Catherine Propper have agreed to run for the Secretary-elect position. Their biographic sketches are at the end of this *Newsletter*. I want to thank Mike Moore for chairing the Nomination Committee and Brian Tsukimura and Mary Mendonca for serving on it.

Finally, I want to express my appreciation to Jim Carr for his fine service as Secretary during the last two years. Jim was replaced by Kevin Kelley, who started his term at the San Diego meeting in January; you can see the enthusiasm he is bringing to this job by reading his report. Kyle Selcer will continue as Program Officer this year, and will be helped in this task by Mike Romero, our Program Officer-elect. His report explains what is being planned for next year. I appointed Darren Lerner as our Divisional Representative on the Student-Postdoctoral Affairs Committee (SPDAC). His message below describes the plans of this committee for the next meeting. Robert Denver, Chair-elect, will take over the DCE Chair position at the Orlando meeting. I look forward to seeing all of you there in January, 2006.

Message from the Program Officer

Kyle W. Selcer (selcer@duq.edu)

Symposia for the 2006 Meeting in Orlando, Florida

Symposia have been selected for the 2006 meeting in Orlando, Florida. Two symposia have been given the designation "society-wide" and should be of interest to DCE members. These are: 1) "Metamorphosis: A Multi-Kingdom Approach" organized by Andreas Heyland, Jason Hodin, Cory Bishop, and Leonid Moroz, and 2) "Ecological Immunology" organized by Kelly Lee and Bram Lutton. In addition, DCE will help sponsor the symposium entitled "Ecophysiology and Conservation: The Contributions of Energetics and

Sensory Biology" organized by R. D. Stevenson and C. R. Tracy.

!!Call for Symposia, 2007 meeting in Phoenix, Arizona!!

Information on submitting symposia for the 2007 meeting in Phoenix is now a link on the home page of the SICB web site. Please think about developing exciting and engaging symposia in your field. DCE-organized symposia have been few and far between lately. Symposia are a major draw for our annual meeting and can be extremely rewarding for the organizers as well. Symposium papers are often published together in an issue of *Integrative and Comparative Biology*. Deadline for submissions is August 19, 2005. If you have an idea for a symposium, please do not hesitate to contact me (selcer@duq.edu).

Message from the Secretary

Kevin M. Kelley (kmkelley@csulb.edu)

Minutes of the DCE Business Meeting, San Diego, CA January 6, 2005

The meeting was called to order by DCE Chair David Borst at 5:15 pm. The minutes from the 2004 DCE Business Meeting were approved, and then David introduced the other DCE officers, Kyle Selcer (Program Officer) and Kevin Kelley (Secretary). He then proceeded to share information on the upcoming SICB meetings and other business. The next Annual Meetings will be held in Orlando, FL (2006), Phoenix, AZ (2007), and San Antonio, TX (2008).

David also discussed the Society journal, *Integrative and Comparative Biology*. Presently, there is a limited backlog of papers, and the previous "turn-around" issues have improved. John Edwards is happy to continue in position as Editor, but has also stated his willingness to pass the baton to someone else. The institutional subscription rate for *ICB* has decreased significantly. In addition, its abstracting by MedLine ceased when the journal changed name, and there has been difficulty getting it reinstated. There is now interest in moving management of *ICB* to a larger publisher (presently the journal is self-published by the Society, and printed by Allen Press). It is believed that a professional publisher can better market the journal and stabilize its finances. David ended by encouraging us to encourage our respective institutions to subscribe to *ICB*.

David then introduced Kyle Selcer, Program Officer for DCE, who provided some details on the 2005 meeting. There were between 1360-1400 attendees this year, and DCE had 85 submitted abstracts. Last year DCE had 125 DCE abstracts, yet with the same overall number of attendees at the meeting. He suggested that we all be sure to mark "Regulatory Biology" when submitting abstracts in the future, as this may be one reason the numbers appeared reduced this year. Kyle then announced that the DCE is sponsoring 2 symposia for next year, yet these symposia were not submitted by DCE members, nor do they have much direct endocrine interests. DCE members are strongly encouraged to submit proposals for symposia for the 2007 meetings (its too late for next year's meeting)! Symposia from DCE bring valuable exposure to our field and serve to enhance attendance and interest at the meetings. For the 2007 meeting, to be held in Arizona, the **deadline for symposia proposals will be August 19, 2005** (any desert themes?!)

See the following page, "**Call for Symposia for the 2007 Meeting in Phoenix**", <http://www.sicb.org/meetings/2007/index.php3>, if you are interested.

David then introduced Kevin Kelley, the new DCE Secretary (and writer of this report). I brought forth 3 goals for the next two years as Secretary: 1) To work toward increasing the profile of DCE science and scientists, 2) To build a stronger link between DCE members and officers, and 3) To increase the involvement of our student/postdoc members in what we do.

With respect to the 1st goal, I would like to begin by encouraging *any DCE member* to send a jpeg of you and/or your group "in action" – in the lab, field, or other; it can also be a collage of several shots. Accompany with a one-paragraph profile of what you do, who you are, and don't forget to provide your contact information, personal website, etc. Send them to the DCE secretary. Furthermore, you may send mp3 or video (qt, mpg, wmv) files. *Please do this!* It's good for the Society, for the field of comparative endocrinology, and it may even help you to recruit students, among other personal benefits. You can find one already building for the DEE (see <http://sicb.org/divisions/dee.php3>, click on "Researchers Database").

With respect to the 2nd goal, expect to hear from me soon regarding DCE By-law changes. The SICB Executive Committee has asked all divisions to re-write their divisional by-laws, in part for better conforming to the new Society By-Laws. I asked Sunny Boyd to speak to this at the business meeting, and she pointed out that the existing DCE By-laws are only 1.5 pages in length and aren't very informative (e.g., with respect to time-line of officer turn-over, rules for best student paper competition, etc.). We need to make them more useful and applicable for us. ****Please see NewsFlash below!****

With respect to the 3rd goal, I began by encouraging our DCE Representative to the Student/Postdoctoral Affairs Committee (SPDAC) to submit a report of this committee's activities and future plans. Students and postdocs represent >25% of the SICB membership, so we should have better communication! Our new DCE Rep to the SPDAC is Darren Lerner (U Mass Amherst; dlerner@forwild.umass.edu). Please read over his comments below.

SICB President, John Wingfield, briefly addressed the DCE Business Meeting. He introduced Sally Woodin, the next SICB President, and Ron Dimock, SICB Treasurer. John then raised issues discussed at the General Business Meeting, which included the concern that NSF funding for SICB symposia will be reducing, and he expressed his support for moving *ICB* to a professional publisher, for the reasons David described earlier. If you are interested in the SICB financial situation, check out Ron Dimock's Treasurer's Report of this Newsletter. He highlighted the effect that reduced institutional *ICB* subscriptions is having on the operating budget (50% of the SICB budget derives from journal fees).

Tom Vandergon, NSF Program Director for the Functional and Regulatory Systems Cluster of the Division of Integrative Organismal Biology (IOB), also made a brief presentation to explain changes at NSF. IOB replaced Integrative Biology and Neuroscience (IBN), and it contains 4 new funding clusters. See <http://www.nsf.gov/div/index.jsp?div=IOB> for more details. He encouraged PIs to call him or other program directors if they have any questions, as to where to submit proposals, etc. Funding rate in IOB this year was 15%.

Bob Dores, Editor-in-Chief of *General and Comparative Endocrinology*, reported that the *GCE* is in good shape, and handled 272 manuscripts in the past year. The rejection rate was 24%, with 69% of the accepted manuscripts going through revisions; the turn-around times have been around 2–3 months in press after acceptance. The review process currently takes 60 days, and he hopes to reduce it to 30 days. He reminded everyone that the first color photo or graph is free, so submit! There will be a double issue for the 15th International Congress of Comparative Endocrinology (ICCE).

Henry John-Alder and Sara Hiebert Burch also addressed the DCE Business Meeting, and discussed the activities of the SICB Digital Library Advisory Board. They invited DCE members to participate in a new venture that aims to promote and facilitate the teaching of "Environmental Endocrinology" at two- and

four-year colleges and universities, through a freely accessible website of peer-reviewed material. This project will develop the second "module" in the new SICB Digital Library of instructional resources (the first is a module in Biomechanics). The new SICB Digital Library will be accessible through AAAS BioScience Education Network (BEN), together with sites sponsored by other major biological societies. The aim of the Environmental Endocrinology module is to create a niche for this important and emerging field, alongside traditional instructional topics for undergraduates. All DCE members should have received an SICB-generated e-mail from Henry and Sara on March 14 about this project. Please contact Henry or Sara for more information: Sara [shieber1@swarthmore.edu], Henry [henry@aesop.rutgers.edu].

*Special Thanks to **Maelani M. Galima** (Univ. Texas Marine Science Institute) and **Kathy Sak** (Calif. State Univ. Long Beach) for their help in preparing the minutes of the DCE Business Meeting.*

Upcoming Events and Meetings:

1. 15th ICCE, will be held in Boston, MA, May 23–28. See <http://www.bu.edu/dbin/icce15/index.php>.
2. 135th American Fisheries Society Annual Meeting, will be held in Anchorage, AK, Sept. 11–15. See <http://www.bu.edu/dbin/icce15/index.php>.
3. Endocrine Society Annual Meetings, will be held in San Diego, CA, June 4–7. See <http://www.endo-society.org/educationevents/annual/2005/index.cfm>.
4. American Society of Ichthyologists and Herpetologists Annual Meeting, will be held in New Orleans, LA, July 12–17. See <http://www.asih.org>.
5. 2005 Congress of the Federation of European Biochemical Societies (FEBS) and the International Union of Biochemistry and Molecular Biology (IUBMB), will be held in Budapest, Hungary, July 2–7. See www.febs-iubmb-2005.com.
6. 196th Meeting of the Society for Endocrinology, will be held in London, UK, Nov. 7–9, 2005. See: <http://www.endocrinology.org/SFE/confs.htm>
7. 7th European Congress of Endocrinology, will be held in Göteborg, Sweden, Sept. 3–7, 2005. See: <http://www.ece2005.com>.
8. International Congress of Physiological Sciences, will be held in San Diego, CA, March 31–April 5, 2005. See: <http://www.iups2005.org>.
9. 7th Indo-Pacific Fish Conference, will be held in Taipei, Taiwan, May 16–20. See: www.ipfc7.org.

Message from the DCE Representative to the Student/Postdoctoral Affairs Committee

Darren Lerner (dlerner@forwild.umass.edu)

Allow me to introduce myself as the new DCE representative to the Student/Postdoctoral Affairs Committee (SPDAC), which serves the student and postdoctoral members of the DCE. You may find out more about the SPDAC at the following society webpages:

<http://www.sicb.org/handbook/committees.php3#studentpostdoccomm> and
<http://www.sicb.org/newsletters/n11-2004/committeereports.php3#studentaffairs>.

I am a PhD student at the University of Massachusetts, Amherst, in the Organismic and Evolutionary Biology Program, having previously received a Masters degree at Oregon State University. I have worked with the USGS both in Oregon and, since 2000, in western Massachusetts at the Conte Anadromous Fish Research

Center. With Sea Grant support, I have been working on the role of the HPI axis in smolt development and the effects of xenoestrogens on endocrine and behavioral development in Atlantic salmon.

At this year's Annual Meeting in San Diego, 27% of all SICB "Grants in Aid of Research (GIAR)" went to DCE students! Congratulations to Shalin Busch, Lauren M. Costa, Susannah French, Brent M. Horton, Jason Johnston, Oliver Love, and Haruka Wada!! Although none of the Fellowships of Graduate Student Travel (FGST) was awarded to DCE student members, more awards were made in 2004/5 than in previous years. Don't forget to apply in November! The award rate for the GIAR is approximately 50% and the FGST rose to 22% this year.

On to Orlando 2006. Don't forget to attend the 1st Timers Orientation, which occurs after the Welcome Social on the first night of the meeting. This gathering is NOT just for "1st timers". The venue in 2006 will include information on how to get the best out of your time at the meeting, as well as provide information on student work for the Student Support Program. Don't forget, if you are a student either presenting a poster or giving an oral presentation, you are eligible for free housing or registration if you provide some services for SICB during the meeting. Of course, on the second day of the meeting, SPDAC will be putting on the ever popular Student/Post-doc Luncheon. Join us for the free lunch and meet SICB President, Sarah A. Woodin, our SPDAC Chair, Shea R. Tuberty, and all of the SPDAC Divisional Representatives. This is a great opportunity to give face-to-face input if you have questions, comments, or suggestions for SPDAC, or the Society in general. For the last evening of the meeting, we are planning two Grad Student/Postdoc Workshops for the Orlando meeting. "Optimizing Your Graduate School Experience" will be immediately followed by "Strategies for Landing an Academic Job/Postdoc". Students and Post-docs are encouraged to attend.

Finally, if you have any comments or suggestions regarding the meeting or any of the SPDAC activities, please feel free to contact me: dlerner@forwild.umass.edu.

NewsFlash!

DCE By-Laws changes: a current version of the proposed By-Law changes has recently been prepared by Sunny Boyd, SICB Secretary. We now have a DCE Electronic Bulletin Board at <http://sicb.org/phpBB2/index.php>. Please go there, look over the changes, and provide any advice or suggestions!! Our division will vote on the changes later this year!!

DCE Elections

Candidates for Chair-elect

Henry B. John-Alder

Current Position: Professor and Director of the Graduate Program, Department of Animal Sciences, Rutgers University; Member, Graduate Program in Ecology and Evolution, Rutgers Univ.

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Education: B. A. Biology, Franklin and Marshall College, 1974; M. S. Biology, Pennsylvania State University, 1979; Ph.D. Comparative Physiology, University of California, Irvine, 1983.

Professional Experience: 1983–84, Postdoctoral Research Associate, Dr. Albert F. Bennett, University of Adelaide, South Australia; 1984–85, Postdoctoral Research Associate, Dr. Ronald L. Terjung, SUNY–Upstate Medical Center; 1985–91, Assistant Professor, Department of Biological Sciences, Rutgers University; 1991–97, Associate Professor, Department of Biological Sciences, Rutgers University; 2002, Associate Professor, Department of Animal Sciences, Rutgers University; 1998–Present, Director, Graduate Program in Animal Science, Rutgers University; 1999, Visiting Professor, Ecole Normale Supérieure, Paris, France; 2002–Present, Professor, Department of Animal Sciences, Rutgers University; Served as NSF panelist for the Dissertation Improvement Advisory and the Ecological and Evolutionary Physiology Panels; Served on Board of Editors, *Physiological and Biochemical Zoology* since 1996; Member Education Committee, AIBS, 2005–Present

SICB Activities: Member since 1981; Secretary, Division of Comparative Endocrinology, 1996–97; Panelist, Grad/Post–Doc Workshop, 2003; DCE Nominating Committee, 2003–4; Chair, Education Council, 2004–Present; Served as judge for Best Student Paper and session chair at several meetings.

Other Memberships: American Association for the Advancement of Science, American Institute of Biological Sciences, American Society of Animal Science, American Society of Ichthyologists and Herpetologists, European Society for Comparative Endocrinology, Society of Behavioral Neuroendocrinology, Society for Integrative and Comparative Biologists, Society for the Study of Evolution

Research Interests: I am interested in ecological and evolutionary physiology and endocrinology. My general approach is highly integrative, crossing traditional levels of biological organization from biochemical to behavioral and blending descriptive and experimental studies in the laboratory and the field. I stress the importance of field experiments solidly grounded in natural history. My primary research project involves comparative and experimental studies on growth and sexual size dimorphism (SSD) in lizards, with a particular focus on how gonadal steroids influence growth. My other ongoing project involves integrative studies on stress, adrenal hormones, and adrenocortical cell function (with R. V. Carsia).

Goals Statement: Within SICB, DCE is one of the largest and most active divisions. Furthermore, by its very nature, endocrinology is an inherently comparative and integrative discipline. It follows that DCE should be a natural "magnet" for the general membership, but I believe we can do a better job at attracting members of other divisions to our sessions. As DCE Chair–Elect, my primary goal will be to promote our divisional appeal by encouraging sponsorship of society–wide symposia and divisional symposia of broad interest, with an eye toward more seamless and fluid interactions among divisions. I would also work to encourage our members to contribute to the environmental endocrinology module in SICB's developing digital library. Organized contributions to this module will promote the presentation of comparative and environmental endocrinology in undergraduate biology curricula and will ultimately lead young scientists to become interested in areas served by our division.

Stacia A. Sower

Current Position: Professor of Biochemistry and Molecular Biology, University of New Hampshire.

Education: B.A. University of Utah, 1973; M.S. Oregon State University, 1978; Ph.D. Oregon State University, 1981.

Professional Experience: Professor, Department of Biochemistry and Molecular Biology, University of New Hampshire, New Hampshire, 1992–present; Interim Associate Dean of Research of CoLSA, 2005; Program Director, Integrative Animal Biology Program, NSF (1996–1997); Chair of Biological Sciences POWRE Program, NSF (1997); Visiting Professor, MacQuarie University, Australia, 1994; Visiting Professor, Kitasato University, Japan, 1992; Associate Professor, UNH, 1987–1992; Visiting Professor, University of Cape Town Medical School, South Africa, 1984–1985; Assistant Professor, UNH, 1982–1987; Research Associate, Department of Zoology, University of Washington, 1980–1983; Graduate Research Assistant, Oregon State University, 1976–1980; Fisheries Biologist, Peace Corps, Venezuela, 1973–1975.

SICB Activities: Chairperson, Committee to Evaluate Best Student Paper for Division of Comparative Endocrinology, 1986. Committee member, 1988, 1989, 1992; Secretary, DCE, 1987 (1988–1989; two–year term); Program Officer, DCE, (1995–1997); Participated in Graduate/Postdoctoral Student Workshop, 1993 and 1994; Panelist, NSF sponsored workshop "Integration of Research and Education: What are our Responsibilities?", 1996; Co–Organizer of Symposium "Honoring Erika M. Plisetskaya...", 1999; SICB Program Officer 2002–2004

Other Memberships: AAAS; Endocrine Society; Society for Neuroscience; Sigma Xi

Research Interests: Comparative molecular & biochemical, reproductive physiology and neuroendocrinology are the major focuses of my research program. My research investigates the molecular, biochemical and functional actions of brain and pituitary hormones involved in agnathan (lamprey and hagfish) reproduction. In addition, my laboratory has recently been studying endocrine disruptors in frogs.

Goal Statement: The biological sciences are undergoing sweeping and exciting changes. SICB can be one of the leaders as we move towards an increased emphasis of integrative and multidisciplinary biology. My goals include 1) being proactive and an advocate for our division and the society; and 2) promote programs and symposia to enhance the concepts of integrative and comparative endocrinology. Another goal is to retain members and attract new members, especially students and postdocs.

Candidates for Secretary–elect

Catherine R. Propper

Current Position: Professor, Department of Biological Sciences, Northern Arizona University (<http://jan.ucc.nau.edu/~propper>)

Education: A.B., Zoology, University of California Berkeley, 1982; Ph.D. Zoology, Oregon State University, 1989. Organization for Tropical Studies, Tropical Ecology Field Course, Costa Rica, 1983.

Professional Experience: NIMH NRSA Post–doctoral Fellowship, University of Colorado (Richard Jones, Mentor) 1989–1990. Assistant Professor, Department of Biological Sciences, NAU, 1991–1996; Associate Professor, NAU, 1996–2002; Professor, NAU, 2002–present; grant panels (NSF, EPA).

SICB Activities: First annual meeting was 1984 A.S.Z., in Denver and I have attended regularly since then. I often bring between 2 and 6 students to the meeting presenting posters or oral presentation. DCE representative, Student/Postdoctoral Affairs Committee (SPDAC), 1990–1991; I have been a judge for the DCE best student presentation award twice. I organized the 1998 Western Regional Conference of Comparative Endocrinology held at NAU in Flagstaff, AZ.

Other Memberships: AAAS, Endocrine Society, Sigma Xi.

Research Interests: My main interests are in how environmental information gets translated into behavioral and reproductive responses and what role the neuroendocrine system plays in the translation. I use amphibians as model systems. Currently, projects in my laboratory include 1) studies on how environmental contaminants may act as endocrine disruptors to affect development and adult stress responses and behavior, 2) to understand the interaction between the environment and molecular mechanisms involved in sexual differentiation during development, and 3) the use of nanotechnology to develop sensitive field-based assays for endocrine disrupting compounds. Specifically, we have been investigating a very commonly used pesticide, endosulfan, and its effects on reproduction and development in four different systems, tadpole development, mosquitofish sexual dimorphism, salamander pheromone production, and amphibian stress responses. We have also investigated the effects of a common industrial compound on sexual differentiation, and we are studying the complex physiological events that result from exposure to environmental mixes of compounds found in wastewater.

Goals Statement: As a 20 year member of SICB and the Division of Comparative Endocrinology, I fully appreciate and am grateful for all of the professional relationships I developed over the years. As secretary I will facilitate these relationships by 1) managing the Newsletter for the DCE, and 2) working with SICB to have a link to a list of all DCE members (including post-docs, graduate students and undergraduates) with a brief statement of their interests. I will also provide a focal point for advertising graduate and post-doctoral positions within the comparative endocrinology community.

Stephen D. McCormick

Current Position: Section Leader, Physiology, USGS, Conte Anadromous Fish Research Center, Turners Falls, MA, and Adjunct Professor of Biology, Department of Biology, University of Massachusetts, Amherst.

Education: B.S. Biology, Bates College, 1977; Ph.D. Massachusetts Institute of Technology & Woods Hole Oceanographic Institution Joint Program in Oceanography, 1983.

Professional Experience: Graduate Program Director, Organismic and Evolutionary Biology Program, University of Massachusetts, Amherst (2003–present). Japanese Society for the Promotion of Science (JSPS) Visiting Scientist, University of Hokkaido (2002). James Chair Visiting Professor, St. Francis Xavier University, Nova Scotia, Canada, (1999). Acting Director, Conte Anadromous Fish Research Center, USGS, Turners Falls, MA (1998–1999). Research Fellow, Ocean Research Institute, University of Tokyo (1990). National Institute of Health Postdoctoral Fellow, University of California at Berkeley (1986–1989). Research Fellow (Swedish Natural Science Research Council), Department of Zoophysiology, University of Goteborg (1986). Postdoctoral Fellow, Department of Fisheries and Oceans, St. Andrews Biological Station, New Brunswick, Canada (1983–1986).

SICB Activities: SICB member since 1980. Member of the SICB Conservation Committee (2004–present). Chair of Student Awards Committee (2000). Member of DCE Nominating Committee (1996).

Other Memberships: American Association for the Advancement of Science, American Fisheries Society (President, Physiology Section, 1998–9).

Research Interests: Environmental and hormonal control of osmoregulation, development, growth and energetics in fish. Current research includes the hormonal control of salinity tolerance and mechanisms of ion transport in anadromous fish (salmon, shad and sturgeon), and endocrine disruption of developmental physiology in anadromous fish.

Goal Statement: The annual SICB meeting serves as an intellectual and personal touchstone for members of the Division of Comparative Endocrinology. The meeting and our Society help to broaden our horizons both within our specific discipline and biology as a whole. The Secretary of DCE can help attract as many faculty members, post-docs and students to take part in the annual meeting by promoting exciting contributions and communicating to our membership the many attributes that the meeting and division have to offer.

Division of Comparative Physiology & Biochemistry (DCPB): 2005 Spring Newsletter

In this newsletter:

- [Message from the Chair](#)
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 - [Message from the Secretary: Minutes of the 2005 Business Meeting; Online Discussion on Bylaws Change; Candidates for Election](#)
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 - [The George A. Bartholomew Award Competition: 2005 Announcement and Profile of the 2004 Winner](#)
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Message from the Chair

Donna L. Wolcott

If you went to the SICB meetings in San Diego this January for the balmy weather, you were sadly disenchanted, no doubt! If you went with high expectations for the scientific content, then you were not disappointed. And if you didn't go, you missed excellent symposia and sessions, and good interactions with colleagues. In particular, the Bartholomew Award lecture by Nicole King (UCB), "The Unicellular Ancestry of Metazoa", elicited much response from many different disciplines, and was attended by about 500 people. Since our social followed directly on the lecture, it was well attended too, which extended the opportunity to discuss comparative topics, including comparative genomics, renew acquaintances, and meet new scientists. (And unlike last year, we did not run out of food while most of the folks were still in line, thanks to the efforts of Burk and Associates, business managers for the Society.) I am looking forward to the scientific buffet in 2006 in Orlando, Florida (January 4–8).

In behalf of the Division, I'd like to offer special thanks to Lou Burnett for serving as the SICB representative on both the US National Committee, which organizes IUPS congresses (most recent one just this March in San Diego), and on the governing body that organizes ICCPB congresses (coming in 2007 to Brazil). While these two congresses are completely separate, it has been traditional for practical reasons (e.g., rationalizing symposium offerings) to have a single representative from SICB to work with both congresses. Working with planning and organizing international congresses that occur infrequently has particular challenges, and without Lou's attention to timelines and impending deadlines, as well as his input on content, the comparative aspect of both Congresses would be diminished. Lou has served DCPB long and well as a past program officer and division chair, and we appreciate his willingness to represent the division to the USNC and ICCPB for another term. Thanks also to Nora Terwilliger and Malcolm Gordon for their efforts increase the visibility of comparative physiology at the IUPS meetings this March.

I would also like to publicly thank Ross Ellington, chair of the George A. Bartholomew Award committee in 2004. Ross organized the application and review process so that the necessary short turn around between the

application deadline and the award announcement could be accommodated without sacrificing a thorough review and good exchange among the committee members. Selecting one awardee from among the eleven excellent candidates was challenging, and I encourage those in that applicant pool to reapply.

David Tapley, organizer for the DCPB Best Student Paper and Poster competition, also deserves the thanks of all in the division. We had 40 entries, each of which required multiple judges. It proved especially difficult in San Diego. Nevertheless, David has agreed to do this again –his third such service– in Orlando next year. When David contacts YOU next summer, please respond positively so that judging does not become a burden for any one division member. Being able to provide input into young investigators' scientific formation and to provide recognition of excellence is a solid investment in the future of the division and in the field of comparative physiology and biochemistry.

And lastly, thanks to Michael Dickinson for his excellent service to DCPB and SICB as division program officer over the last several years (see Hammond's message to follow).

On a more somber note, it is with profound respect that we mark the passing of Dr. Dorothy Skinner, who died February 12, 2005 after a long illness. Dorothy served the Society and the Division without stint, and was a wonderful mentor to those who passed through her lab, or who benefited from her wise counsel and spirited exchanges at scientific meetings. A scholarship fund is being established in memory of Dorothy Skinner; see the tribute to Dorothy that follows below.

Tribute to Dorothy Skinner

Don Mykles, Colorado State University

**Dorothy M. Skinner
(1930–2005)**

Dorothy Skinner died on February 12, 2005 from complications of Parkinson's disease. We have not only lost a prominent member of our community, but also an influential mentor and advocate for women in science. Her declining health over the last decade prevented her from pursuing these passions more vigorously.

Dorothy was tenacious and fiercely competitive, attributes that manifested early. She was born in Newton, Massachusetts, as the youngest of three girls. She graduated from Watertown High School, where she was Best Girl Athlete. At Tufts University she was elected to Phi Beta Kappa in her junior year and was on the women's basketball team. After earning her B.A. (Biology and Chemistry) in 1952, she was Assistant Dean of Admissions at Tufts for two years. The Dean being unwell, at age 23 Dorothy was given the chief responsibility for admitting two classes to the School of Arts and Sciences. Of this experience she said: "I learned to be perceptive, to listen, to try to guide others in making important career decisions."



It was as a Ph.D. student at Harvard University (1954–1958) that she began her interest in crustaceans. She was the last of John Welsh's "Three Dots", whom he advised as graduate students in the 1950's. The others were Dorothy F. Travis and Dorothy E. Bliss. After postdoctoral positions in the biochemistry departments at Harvard, Yale, and Brandeis, she joined the faculty at New York University School of Medicine in 1962. In 1966, she and her husband, John Cook, took positions as senior research scientists in the Biology Division of Oak Ridge National Laboratory, where they worked in their respective fields until retirement more than 30 years later.

At Oak Ridge, she introduced molecular approaches to the investigation of numerous crustacean species. As an authority on satellite DNA structure and function, she was a pioneer in the field of genomics and was quick to utilize the tools of molecular biology. Her keen intellect and powers of observation led to important discoveries in molting biology. She was the first to describe induction of molting by multiple leg removal (autotomy) and inhibition of molting by autotomy of regenerating limbs. She rediscovered the phenomenon of premolt atrophy of claw muscle and recognized its significance in facilitating withdrawal from the exoskeleton at ecdysis.

Dorothy authored nearly 90 publications, including articles in *Nature*, *Science*, *Cell*, and *PNAS*. A lasting legacy is her chapter on molting and regeneration in **The Biology of Crustacea** published 20 years ago. It remains the most complete and thorough review of the field to this day. Her many contributions were recognized with a symposium at the 1998 annual meeting of the Society for Integrative and Comparative Biology in Boston (*American Zoologist*, volume 39, number 3). In 1994 The Crustacean Society honored Dorothy with an Award for Excellence in Research for a "lifetime of investigative achievements and for mentoring new trainees in the field." Other honors were a Scholar–Athlete Award from Tufts (1993) and the Distinguished Service Award from the Tufts Alumni Association (1994).

Her other professional activities included serving on the editorial boards of **The Biological Bulletin**, **Gene, Growth**, and **Physiological Zoology** and review panels for the National Science Foundation and the National Institutes of Health. She also was an officer in several scientific societies, including North American Governor of The Crustacean Society. Several summers she taught at the Marine Biological Laboratory in Woods Hole, Massachusetts. Throughout her life she devoted much effort to promoting the equal treatment of women in science and was elected to the governing council of the Association for Women in Science.

She and her husband developed an interest in 20th century art and filled their home with a substantial collection of paintings, prints, and sculptures. After retirement, she and John moved to Falmouth, Massachusetts in 1999. Condolences can be addressed to: Dr. John Cook, 24 Gray Lane, Falmouth, MA 02540-1613.

A scholarship fund is being established in memory of Dorothy Skinner. It will provide travel support for women graduate students and postdocs to present their research at the SICB meetings. If you are interested in contributing, please contact Don Mykles (Donald.Mykles@ColoState.edu).

Message from the Program Officer

Kimberly Hammond

Farewell and Thanks!

The first item this spring is to thank Michael Dickinson whom I am replacing for his service to the society for the past two years and, on a personal note, for giving me a very good primer on my duties as program officer. Michael helped to plan many diverse and wonderful symposia. I trust he will continue his leadership in our division and in SICB as a whole over the next few years.

San Diego: By all accounts the San Diego meeting was a great success. Congratulations to Dr. Nicole King, who received this year's Bartholomew Award. Also we thank James Truman who gave the Howard Bern Lecture. We are privileged indeed to be able to honor the likes of Bart and Howard each year.

Both of the symposia sponsored by the Division of Comparative Physiology and Biochemistry were successful and drew a lot of outside attention. Many thanks are in order for the organizers of these two symposia. For "Desiccation Tolerance in Animals, Microbes, and Plants: Comparative Mechanisms and Evolution" we thank Peter Albert, Jim Clegg, Brent Mishler, and Mel Oliver. Robert Dudley and Doug Altshuler organized the symposium (co-sponsored with DVM) entitled "Adaptations for Life at High Elevation" and we thank them as well.

Orlando: Our next meeting is in Orlando Florida. The dates are: January 4-8. We look forward to many great talks and symposia. The Society-wide symposia are:

"Ecological Immunology: Recent Advances and Applications for Conservation and Public Health" organized

by Kelly Lee, Bram Lutton and Martin Wikelski

"Metamorphosis: A Multi-Kingdom Approach" organized by Andreas Heyland, Jason Hodin, Cory Bishop, and Leonid Moroz

The Division of Comparative Physiology and Biochemistry is sponsoring or co-sponsoring the following symposia:

"Genomic and Proteomic Approaches in Crustacean Biology" organized by Donald Mykles and David Towle (with The Crustacean Society, DIZ and DNB)

"EcoPhysiology and Conservation: The contributions Contributions of Energetics" organized by Robert Stevenson (with DCE and DEE)

"Biomechanics and Neuromuscular Control" organized by Kiisa Nishikawa and Andrew Biewener (with DVM and DNB)

It is never too soon to start thinking of ideas for symposia for future meetings. The symposia are a good way to introduce new and provocative ideas, or discuss changing themes in research, or revisit and revitalize other areas. Please email me (khammond@ucr.edu) to get started.

Other Meetings: DCPB/SICB is co-sponsoring the International Congress for Comparative Physiology and Biochemistry (ICCPB) in Salvador, Bahia, Brazil in August 2007. We have been soliciting ideas for symposia at those meetings, and we are hoping many SICB members will plan to attend.

Finally, I want to congratulate, on behalf of the Division of Comparative Physiology and Biochemistry the graduate student award winners at our 2005 meeting. See the Message from the Graduate Student/Postdoc Representative later in this newsletter.

Congratulations for jobs well done!

Message from the Secretary

Paul H. Yancey

MINUTES OF THE DCPB BUSINESS MEETING, January 5, 2005, San Diego

Paul Yancey (Secretary) presented the minutes from the DCPB Business meeting in New Orleans, January 2004. The minutes were approved unanimously. He then announced that the division secretaries were seeking photos from members to feature on the SICB divisional websites.

Donna Wolcott (Chair) then called on Steven Vogel, who announced an AAAS initiative with NSF funding called BEN (Bioscience Education Network):

www.bioscienet.org/portal/

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The BEN website will serve as a source of peer-reviewed, no-fee instructional materials for undergraduate biology teaching. SICB is joining BEN with an initial site on Biomechanics:

sicb.org/dl/biomechanics.php3

A site on Environmental Endocrinology is under development. Members are encouraged to submit ideas and materials. SICB Webmaster Ruediger Birenheide noted that online materials can be rtf files, movies, url links, etc.

Donna then recognized SICB President John Wingfield, who introduced the SICB officers. He also announced that NSF is greatly decreasing its funding of symposia. He also noted that SICB revenues are falling, primarily due to declining journal subscriptions. Finally, he discussed an increasing interest in Conservation Biology among several divisions, and that SICB officers were pondering how to address this.

Bill Zamer of NSF announced a new section called Integrative Organismal Biology (IOB). Biologists interested in submitted proposals to IOB should look at the new website and contact program officers about suitability. He then discussed the bad news: a 4-5% cut in NSF budget, with another cut likely in fiscal year 2006. Funding for symposia is indeed being heavily cut, in order to preserve funding for regular grants as much as possible. Bill emphasized that NSF is still in business and expects proposal submissions.

Donna then introduced the DCPB officers, including our new Chair-Elect, Pat Walsh, and Program-Officer-Elect, Kimberly Hammond.

Michael Dickinson (Program Officer) then reported on symposia of interest to DCPB at SICB 2006. See *Message from the Program Officer* in this newsletter for more information (from our new officer, Kimberly Hammond). He also emphasized the need for judges in the best paper competition. Dave Tapley does an outstanding job, but is finding it increasingly difficult to get such judges. DCPB may have to devise some way of restricting the number of eligible papers, or of recruiting more judges. Rich Londraville, who coordinated the judges at the meeting this year, noted that each judge had to attend 8 to 12 papers, which is too much.

Donna announced that an online chat board will be set up for exchange of ideas. One issue is whether students who compete for best paper should be members of DCPB. SICB Program officer Catherine Loudon noted that there is in fact a proposal to amend the bylaws to allow non-members to participate. DCPB Past President Nora Terwilliger argued that divisions do matter, and that we should instead make it easier for students to affiliate with a division. [*For members' input on this issue, see the section below on ONLINE DISCUSSION OF POSSIBLE BYLAWS CHANGE.*]

Pat Walsh, editor of *CPB (Comparative Biochemistry and Physiology)*, reported on the journal's 2004 activities.

1. Submissions Statistics:

- Submissions: 901 (38 still in process)
- Referees Used: 1351 (some more than once)
- Desk/Editorial Board Rejections: 27.2%; Rejections after review: 18.8%; Total Rejections: 46.0%
- 2003 Impact Factors: ~1.5 for Parts A,B and C
- Turnaround Time: 11 weeks + revisions

2. Miscellaneous items

- Electronic Review, including referee query by mid-February 2005

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- We take papers in Open Office (open source) File Format
- Elsevier has changed interpretation of copyright agreement such that authors can post pdf files of proofs to individual webpages for downloading
- We still encourage downloads of papers from Science Direct
- We track and give "Atta Boy/Girl" kudos to the top 25 downloaded papers each year

3. Special Issues for 2004–05

- PWH Peter Hochachka Memorial–George Somero, Guest Editor
- Aquatic Animal Models of Human Health–Mike Schmale, Guest Editor
- Ontogeny of Physiological Regulation–Steve Roberts and Carl Reiber, Guest Editors (in process)

4. Special Issues for 2005–06

- Nitric Oxide–Tobias Wang, Guest Editor
- South and Central American Comp. Physiology: Hermes–Lima and Zenteno–Savin, Guest Editors
- Comparative Neuroendocrinology: Vance Trudeau, Guest Editor

5. Launch of Part D – Comparative Genomics/Proteomics

- 3 to 4 issues/year (no added cost)
- Added Board Members
- Upcoming: Fugu Genomics Conference (Japan); Guest Editors: Watabe, Johnston, Elgar
- Now Inviting Papers

6. Elsevier Young Investigator Awards

- Spring SEB Meeting: Jonathan Stecyk (and two honorable mentions)

Albert Bennett stood in for Jim Hicks, editor of *Physiological and Biochemical Zoology (PBZ)*, to report on that journal.

- 2004 submissions were at the 2003 level (180–200 per year). 51% were accepted; only 33% were from the U.S.A.
- Turnaround time is decreasing, now about 63 days for first editorial decision.
- PBZ has been named by ISI as a "high-impact" journal, with a 2-year impact factor of 1.54 (compared to AJP–Regulatory at 3.63, JEB at 2.27, CBP at 1.55, JCP at 1.48. PBZ's 10-year impact factor is about 19 (compared to CBP at 8, JEB at 20).
- Two special collections were published, including the November–December issue on endothermy.
- In 2005, papers will now be published almost as soon as galley proofs are returned.
- There is now a PBZ website for online submissions and reviews, and with classic articles available for download: www.journals.uchicago.edu/PBZ/home.html
- There are two new Associate Editors, Patricia Schulte and Ted Garland. Several new editorial board members have also been selected (see the PBZ website).

Martin Feder spoke about the Annual Review of Physiology, which has the highest impact factor overall. He handles articles on evolutionary and comparative physiology, which members are encouraged to submit.

Donna then discussed the SICB Diversity Committee, which has been ad hoc but will become a standing committee. There should be a ballot on this (for amending the bylaws) in the Spring 2005 SICB newsletter. She noted that we need a new publisher for *Integrative and Comparative Biology*. Finally she presented the

venues for upcoming meetings: 2006 in Orlando, 2007 possibly in Tucson, 2008 possibly in San Antonio, and 2009 perhaps in Puerto Rico.

Announcements were then made about the IUPS 2005 meeting in April. Nora noted that SICB gave \$5000 for comparative symposia and for travel for young and foreign investigators. Malcolm Gordon called attention to the satellite symposium on Biomechanics and Bio-inspired Engineering. Lou Burnett listed the Krogh lecture (Ray Weber) and comparative symposia (e.g., on hypoxia, genomics for physiology teaching).

Donna concluded the meeting by announcing the 11th Annual Bart lecture by Nicole King, which followed the meeting, and thanked Sable Systems for contributing financially to the Bart Award prize.

ONLINE DISCUSSION ON POSSIBLE BYLAWS CHANGE

An issue brought up at the Business Meeting (see MINUTES, above) is whether we (DCPB) want to change our bylaws to allow students who are not DCPB members to compete in the DCPB best student paper and poster awards. We would need to vote on whether to delete the following sentence from Article XIII. Awards, Section A. Best Student Paper Awards of the bylaws:

A student who applies must be a member of the Division of Comparative Physiology and Biochemistry.

To this end, an online bulletin/chat board has been set up for DCPB members to discuss this issue. Please participate at:

<http://sicb.org/phpBB2/index.php?c=5>

Click on DCPB-BYLAWS link and then read the comments (clicking if necessary). To submit your own comments, click the POST REPLY button, fill out the form, and SUBMIT it.

ELECTIONS

We are holding elections for DCPB Secretary. Electronic ballots will be distributed during the summer. Please be sure to vote. Biographies of the candidates are below:

Secretary Candidates

Adriana D. Briscoe

Current Position: Assistant Professor, Comparative and Evolutionary Physiology Group, Department of Ecology and Evolutionary Biology, University of California, Irvine.

Education: Ph.D., Biology, Harvard University, 1999; M.A. Philosophy, Stanford University; B.S., Biological Sciences, Stanford University, 1993; B.A. Philosophy, Stanford University, 1992

Professional Experience: Assistant Professor, Department of Ecology and Evolutionary Biology; University of California, Irvine 2002–present; Postdoctoral Fellow, Department of Cellular and Structural Biology, University of Colorado Health Sciences Center, 2000–2002; Postdoctoral Fellow, Department of Molecular and Cellular Biology, University of Arizona, Tucson, 1999–2000.

SICB Activities: Member; Student presentation judge for ASP (American Physiological Society); Diversity Committee Panelist; Session Chair; Numerous contributed presentations.

Other Memberships: AAAS; Sigma Xi; Society for Integrative and Comparative Biology; Genetics Society of America; Society for Molecular Biology and Evolution

Research Interests: Evolution of physiological systems, especially sensory systems; comparative functional genomics; color and polarization vision; circadian rhythms; evolution of eyes; vision and behavior.

Statement of Goals: As DCPB Secretary, I will focus my energies on working closely with other DCPB officers, members and the SICB webmaster to communicate and publicize the goals, accomplishments and business of the society through the timely and accurate publication of the DCPB newsletter.

Jonathon H. Stillman

Current Position: Assistant Professor, University of Hawaii at Manoa

Education: B.S. University of Minnesota, Minneapolis, Minnesota, 1991; Ph.D. Oregon State University, Corvallis, Oregon 1999; Postdoctoral Fellow, Johns Hopkins University 2000–2001; Postdoctoral Fellow, Stanford University, 2002–2003

Professional Experience: Visiting Assistant Professor at Occidental College, 2001–2002; Assistant Professor, University of Hawaii at Manoa 2003–present

SICB Activities: Member since 1990, 3 posters, 3 oral presentations, symposium speaker for SICB symposium "Physiological Ecology of Rocky Intertidal Organisms: From Molecules to Ecosystems." 2 papers published in *Physiological and Biochemical Zoology*. 2 papers published in *Integrative and Comparative Biology*.

Other Memberships: Sigma Xi, American Association for the Advancement of Science.

Research Interests: I study evolutionary, mechanistic, and ecological aspects of physiological adaptations of organisms to environmental variation and stress. The principal environmental stresses on which my studies focus are those associated with marine intertidal zone habitats. I have examined adaptations to environmental stress within one group of organisms, porcelain crabs, on a wide range of biological levels – from morphological to physiological, biochemical and molecular. My goal is to develop an integrative picture of physiological adaptation, from genomic to the organismal levels. I am currently using a cDNA microarray for porcelain crabs to elucidate the mechanistic bases of thermal acclimation and responses to thermal stress.

Statement of Goals: I would be honored to make a contribution to SICB after many years of SICB/ASZ making a contribution to my scientific career. I first attended during my freshman year as an undergraduate and have attended meetings throughout my graduate, postgraduate, and faculty tenures. The SICB is important to me because of the great balance and diversity among biological disciplines, because of the high caliber of presentations, because of the opportunity for scientific exchange that happens outside of the official sessions, because of the opportunities to make important professional contacts, catch up with old friends and make new ones, and because of the supportive environment for students at all levels (including one junior high school student whom I met while she presented her poster to me in San Diego 2005!, and myself when I was an undergraduate and presented in San Antonio, 1990). I want to do my part to ensure that the society continues to provide these high-quality, well-attended, student-friendly meetings, and to see the society continue to

improve in its efforts to integrate the diverse areas of comparative biology.

Message from the Graduate Student/Postdoc Representative

Joanna Joyner Matos

Hello to all DCPB graduate students and postdocs. I hope you enjoyed the meeting in San Diego!
Congratulations to the following winners of the DCPB student oral and poster competitions:

Oral presentation

First prize:

Salvante, K.G. of Simon Fraser University for the presentation of Salvante, K.G.; Vezina, F.; Williams, T.D.:
Is avian egg production really costly?

Runner-up:

Sponberg, S.N. of UC Berkeley for the presentation of Sponberg, S.N.; Chang, C.; Full, R.J.: Sensory independent, feedforward control of locomotion in cockroaches running over rough surfaces.

Poster presentation

First prize:

Frazier, M. of the University of Washington for the poster, Frazier, M.; Huey, R.B.; Berrigan, D.: Insect population growth: Hotter is Better.

Runner-up:

Hardy, K.M. of University of North Carolina Wilmington for the poster, Hardy, K.M.; Kinsey, S.T.: Effects of fiber size on post-contractile phosphagen resynthesis in crustacean muscle.

As graduate student representative for DCPB, I am also a member of SICB's Student/ Postdoctoral Affairs Committee (SPDAC). The SPDAC has already formulated some plans for activities at the 2006 meeting in Orlando, Fl and I would appreciate any feedback on the following ideas. The tentatively planned activities include:

- 1st Timers Orientation on the first day of the meeting, during which we'll discuss "**How to get the most out of your SICB meeting.**" This meeting will also include a lightning round of 1st timers' questions.
- SPDAC Free Lunch on the second day of the meeting, during which SPDAC members will introduce themselves and the Student support chair and the president of SICB will discuss student support programs and activities with us.
- We are planning two workshops for the last evening of the meeting, to be held one after the other (6:00–7:00 and 7:00–8:00).

Workshop #1 is tentatively entitled, "**Optimizing your graduate school experience.**" During this workshop we will discuss topics of interest to graduate students, including acquiring funding, finding a good mentor, applying for grants, getting to meetings and making connections, and building a curriculum vitae.

Workshop #2 is tentatively entitled, "**Strategies for landing an academic job/postdoc.**" For this workshop we will invite new and senior faculty SICB members from each of the three levels of academic institutions. They will discuss how to tailor your curriculum vitae for the different types of academic positions, and summarize the typical research/teaching/service expectations of faculty members at each type of institution. A question and answer period will also be included.

- We will end the last evening, of course, with a society-wide social for students and postdocs.

If you have questions or ideas regarding SPDAC's plans for the Orlando meeting, or other questions for me, please feel free to contact me at jjjoyner@zoo.ufl.edu. Good luck with the semester!

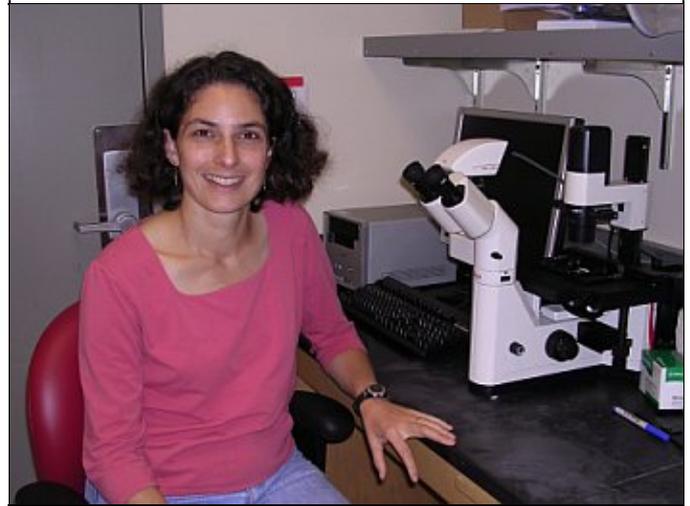
The George A. Bartholomew Award Competition

The Division of Comparative Physiology and Biochemistry solicits applications and nominations for the 2005 George A. Bartholomew Award—an annual prize given to a young investigator for distinguished contributions to comparative physiology and biochemistry or to related fields of functional and integrative biology. Eligible candidates are those who have completed their doctorate within the past seven (7) years. Additional information about the award is available on the SICB website

(<http://www.sicb.org/grants/bartholomew.php3>). Candidates may apply directly or be nominated: both types of candidates will be evaluated equivalently. Applicants should submit a short description of their work, three (3) reprints, and a curriculum vita and also request three letters of recommendation. Nominators must arrange for these same materials (except that only two additional letters of recommendation are required) to be submitted to the Committee. All materials should be submitted electronically in pdf format to the Chair of the Selection Committee, Dr. Steven Hand, Department of Biological Sciences, Louisiana State University (email address: shand@lsu.edu). Deadline for receipt of all materials is Friday, August 26, 2005. The winner will present a Plenary Lecture at the 2006 Annual Meeting in Orlando.

The 2004 George A. Bartholomew Recipient: Nicole King

Nicole King graduated in 1992 with a B.S. in Biology from Indiana University, where Thom Kaufman and Rudy Raff inspired her lasting fascination with the evolution of development. Upon arriving at Harvard University for graduate study, Nicole set out to study the ancestral roles of homeobox genes and was mentored by Andy Knoll and Toby Kellogg. Three years later, with a new appreciation for life's history and microbial diversity, but having made little progress at the bench, Nicole was fortunate to find a new home in the laboratory of Rich Losick. While studying cell-specific gene regulation in a spore-forming bacterium, *Bacillus subtilis*, she learned skills in microbial genetics, biochemistry, microscopy, and comparative genomics that have proven invaluable to her subsequent work. After receiving her Ph.D. in 1999, Nicole migrated to the University of Wisconsin to post-doc in the dynamic laboratory of Sean Carroll. Encouraged by Sean's enthusiasm and the support of terrific labmates, she resurrected her old interest in the evolution of development and undertook a study of choanoflagellates and animal origins. She continues this work at the University of California, Berkeley, where she is a new assistant professor in the Departments of Integrative Biology and of Molecular and Cell Biology and is a member of the Center for Integrative Genomics.



Division of Evolutionary Developmental Biology (DEDB) and Division of Developmental and Cell Biology (DDCB): 2005 Spring Newsletter

In this newsletter:

- [Message from the Chair](#)
 - [Message from the Program Officer](#)
 - [Message from the Secretary](#)
 - [Message from the Student/Postdoc Representative](#)
 - [Candidates for Elections](#)
-

Message from the Chair

Brian K. Hall

Dear Member of DEDB and DDCB,

I hope that those of you who attended the 2005 meeting in San Diego have fond memories of another highly successful meeting, despite the cool and rainy weather and the scramble for places in some of the smaller rooms. Developmental, cell biology and evo–devo all were well represented in symposia, platform talks and posters. Our collective thanks to Frietson Galis for organizing such an enjoyable and successful divisional social. Details of matters discussed at the divisional business meeting may be found in Frietson's report below. An outline of divisional symposia for the 2006 meeting in Orlando Florida, January 4–8 may be found in the report from the program officer, Eduardo Rosa–Molinar.

DEDB and DDCB formed an association at the January 2004 meeting. The details of the document of association may be found in Frietson's report in the Spring 2004 Newsletter. Two clauses from the document are reproduced below:

"With this memorandum the Division of Developmental and Cell Biology, hereafter called DDCB, and the Division of Evolutionary Developmental Biology, hereafter called DEDB, of the Society of Integrative and Comparative Biology, hereafter called SICB, confirm their decision to form an Association to perform the business and scientific program functions of a Division of SICB as detailed below.

The Association shall continue as long as it is perceived by the membership in the interest of the participating parties, DDCB, DEDB and SICB. The Association may be dissolved unilaterally by a vote of one of the participating Divisions. The vote has to be a simple majority of those members of the Division participating in the vote."

I draw your attention to the second clause. Unless we hear to the contrary, the officers of the combined division will assume that members wish to continue to operate the business of the two divisions in concert. Any concerns, opinions, ideas, comments, critiques or suggestions on the association should be communicated to one the officers.

It is important to note that this is an **association** and not an amalgamation of the two divisions. The difference

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is critical. We want to foster cell, developmental and evolutionary developmental biology, not subordinate cell or developmental to evo–devo. Consequently, presentations, symposia and other activities that further the three sub–fields are encouraged vigorously.

We retain our association with the two journals *Evolution & Development* and the *Journal of Experimental Zoology Part B. Molecular and Development Evolution* and encourage you to subscribe and to submit papers.

Three positions will be open to be filled from the end of the 2006 meeting in January – Chair, Secretary–elect, and Program Officer–elect.

The chair will serve for the two years 2006 and 2007.

Secretary–elect and Program Officer–elect are new positions, approved at the business meeting in San Diego. The intent is to provide a mechanism by which individuals can be introduced to their roles for one year (2006) as Sec– or PO–elect and then serve a two–year term (2007, 2008) as Sec. or PO. Nominations for these three positions should be sent to the chair of the nominations committee, Patricia Hernandez Department of Biological Sciences, The George Washington University, Lisner Hall 340, 2023 G Street, NW, Washington, D.C. 20052 (phernand@gwu.edu) by 15 May 2005. For information required of each nominee, see under "Candidates for Elections" in the Spring 2004 divisional newsletter.

Message from the Program Officer

Eduardo Rosa–Molinar

!Saludos de Puerto Rico!

I hope that all of you are doing well. Below you will find a summary of my report to the membership of the Division of Evolutionary Developmental Biology (DEDB)/Division of Development Cell Biology at the Society of Integrative and Comparative Biology (SICB) 2005 Annual Meeting held at the Town and Country Resort and Convention Center in San Diego, California as well as other news and announcements.

By January 4, 2005 we had over 1,550 registrants in attendance with over 600 students. The symposia sponsored by DEDB/DDCB in 2005 were:

"Terminal Addition, Segmentation, and the Evolution of Metazoan Body Plan Regionalization"

Organizer(s): Nigel Hughes (U. of California/Riverside) and David K. Jacobs (UCLA)

Sponsoring Division(s): DEDB and DDCB (primary), DSEB, DIZ, DVM, and the Paleontological Society (additional)

"The New Microscopy: Toward a Phylogenetic Synthesis"

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Organizer(s): Ruth Ann Dewel (Appalachian State University), Kathy Coates (Bermuda Biological Station), Mary Beth Thomas, Clay Cook (Harbor Branch Oceanographic Institution), Julian Smith (Winthrop University)

Sponsoring Affiliate Society: American Microscopical Society (primary)
Sponsoring Division(s): DEE, DNB, DIZ, DEEB and DDCB, and DSEB (additional)

"WormNet: Recent Advances in Annelid Systematics, Development, and Evolution"

Organizer(s): Kenneth M. Halanych (Auburn University)

Sponsoring Division(s): DIZ, DSEB, DEEB and DDCB (primary)

"Evolution and Development of the Vertebrate Dentition"

Organizer(s): Moya Smith (King's College London Dental Institute)

Sponsoring Division(s): DEEB, DVM, DDCB, and DSEB (primary)

I want to thank all of the organizers for their hard work and effort in getting together outstanding symposia put together. This is the "glue" of the meeting.

The symposia approved to be sponsored by DEEB/DDCB in 2006 are:

"Movers and Shakers: The Evolution and Development of Mesoderm"

Organizer(s): Brad Davidson and John Gerhart

Sponsoring Division(s): DEEB and DDCB (primary)

"Zebrafish in Comparative Context"

Organizer(s): Jackie Webb and Thomas Schilling

Sponsoring Division(s): DEEB and DDCB, and DVM (primary)

Sponsoring Affiliate Society: American Microscopical Society (additional)

*DAB – Division of Animal Behavior; DCE – Division of Comparative Endocrinology; DCPB – Division of Comparative Physiology & Biochemistry; DDCB – Division of Developmental & Cell Biology; DEEB – Division of Evolutionary; Developmental Biology; DEE – Division of Ecology & Evolution; DIZ – Division of Invertebrate Zoology; DNB – Division of Neurobiology; DSEB – Division of Systematic & Evolutionary Biology; DVM – Division of Vertebrate Morphology

Division of Evolutionary Developmental Biology (DEEB) and Division of Developmental and Cell Biology (DDCB)

I have requested a significant increase in DEDB/DDCB divisional budget this year (and beyond), primarily because the National Science Foundation (NSF) and National Institutes of Health (NIH) funding for symposia will be significantly less this year and next year than it was in the past. My fund raising efforts have increased, and to make access to funds easier and enhance fund raising efforts, I recommended that we centralize the effort in Burk and Associates, with their taking responsibility for holding and distributing these funds when requested.

The Divisional Program Officers (DPO's) unanimously agreed that the Best Student Paper (BSP) award programs administered by most of the SICB divisions would benefit from standardizing some (but not all) of the procedures and requirements of those programs. Our specific recommendations to the Executive Committee and membership are as follows:

(1) eliminate division affiliation requirements for the BSP programs (currently division affiliation is a requirement by DCPB, DEE, and DIZ, but not DAB, DCE, DDCB, DEDB, DSEB, or DVM)

Rationale for Change: This change acknowledges the scientific overlap among the divisions and promotes interaction among them. In addition, the requirement recommended for elimination is fairly minor, as students can change divisional affiliation with a single click on their SICB member information page. This latter point means that enforcement of the current requirement is difficult, at best.

(2) an individual awarded the first place BSP (oral) from any division will be ineligible to compete for the BSP (oral) in that same division or any other division in the future. Similarly, an individual awarded the first place BSP (poster) from any division will be ineligible to compete for the BSP (poster) in that same division or any other division in the future. An individual could compete for a poster award after winning an oral award, and vice versa (currently there are divisional restrictions in the number of awards that any individual can win in DCPB, DDCB, DEE, and DEDB, but not in DAB, DCE, DIZ, DSEB, or DVM).

Rationale for Change: This change would give the society an increased opportunity to acknowledge a larger number of students making outstanding presentations. With elimination of division affiliation requirements (#1), it seemed important to enforce this rule at the society level rather than just at the divisional level.

The DPO's are not recommending standardizing the other differences in divisional programs (such as number of individual awards, amount of awards, criteria used [i.e. standardize the oral and poster evaluation forms.]) We will need to vote on the proposed changes. I have asked Frietson to put recommended changes on the divisional electronic bulletin board for discussion before we vote on it. Check the electronic bulletin board and provide your input on this important issue.

This year's Best Student Paper winners were:

Handrigan, G.R. *The Case of the Anuran Backbone: Missing Vertebrae and Genetic Culprits.*

(Faculty Collaborator: R.J. Wassersug).

Matus, D.Q. *The Role of COE Genes on the Evolution of the Metazoan Nervous System.*

(Faculty Collaborator: M. Q. Martindale).

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In addition to receiving a check (\$100.00), each student will receive a signed copy of Sean Carroll's 2nd edition of "*From DNA to Diversity*." I'm sure DDEB/DDCB joins me in congratulating our winners, collaborators, and faculty collaborators for their outstanding work and presentations. I would also like to thank Blackwell, specifically Nancy Whilton, for continued support.

I proposed that the membership of DEDB/DDCB contemplate amending the divisional bylaws to elect a DPO-elect so that this person could begin training for the position when my term comes to an end. This discussion will also be put on the electronic bulletin board for discussion.

I requested and am reminding the membership of DEDB/DDCB to review the list of "keywords." Keywords will make programming easier and provide better linkages with symposia and contributed papers and poster. I will get this list and post it on the electronic bulletin board for your review and comment. I really need membership input on this now!

Our new Society-wide Program Officer is Linda Walters. I'm sure DDEB/DDCB joins me in congratulating Linda in her new role.

The 2005 program planning meeting to finalize the January 4–8 2006 SICB meeting will be held October 8th and 9th in Orlando, Florida, site of the 2006 meeting. Keep checking the SICB website (<http://www.sicb.org>) and reading the DEDB/DCDB newsletter and electronic bulletin board for updates and issues regarding the 2006 meeting in Orlando, Florida

The deadline for submitting materials for symposia for the 2007 meeting in Tucson, Arizona is August 19, 2005. If you have ideas drop me an email (ed@hpcf.upr.edu).

The topic "Evo–Devo" has been targeted by the Digital Library. Those of you interested in working on this project should talk with Trish Morse.

Another issue discussed extensively in the meeting are the radial changes in store for our society journal Integrative Comparative Biology (ICB), including:

1. electronic editing
2. the Washington Consortium will be passing the baton when the opportunity arises.
3. changing our current publisher (Allen Press). Publishers that are in the competition are: Elsevier, Oxford, Blackwell, Karger, and others. Stay tuned.

Finally (a lot of stuff) keep sending your original research papers and/or symposia to *Evolution and Development* (Blackwell Publishing), *Molecular and Developmental Evolution* (Wiley), *American Naturalist*, and *Biosciences (AIBS)*.

Hasta pronto amigos!

Message from the Secretary

Frietson Galis

Dear members of the DEEB and DCDB,

The high quality of the talks and discussions in our sessions and the high attendance are a sign of the livelihood and well-being of our division. I would like to thank Ed Rosa-Molinar and the other program officers for making such a good program. I would like to thank Brian Hall for energetically and insightfully leading our division.

Here are the minutes of our well-attended business meeting at the conference:

Business meeting DEEB, Thursday, 6 January 2005

- Opening of the meeting by the Chair, Brian Hall.
- Approval of the minutes of the January 2004 meeting.
- The proposal at the 2004 meeting to reduce the duration of a contributed talk from 20 minutes to 15 minutes is still being considered as an option. There is no support for this proposal among our members. It is strongly felt that in particular for talks that address integrative issues 15 minutes is not sufficient.
- Report of the program officer, Eduardo Rosa-Molinar (see his report in this newsletter).
- Report of the secretary
- – On-line fora:

SICB Webmaster Ruediger Birenheide has created the possibility for members of SICB to participate in on-line fora. We would like to determine whether any members of the DEEB/DDCB are interested in organizing a forum that would deal with matters relating to evolutionary developmental, developmental or cell biology.

If so, please contact me: galis@rulsfb.leidenuniv.nl. Please also contact me if you have views for or against such an on-line forum.

- – Improved attractiveness of our web pages:

We kindly ask all our members to provide a paragraph on their research and to illustrate this with an image in Jpg-format (galis@rulsfb.leidenuniv.nl). For inspiration you can check the web pages of the DEE: <http://sicb.org/divisions/dee.php3>

- Joe Thompson notifies our members of the digital library, a faculty resource that is contributed by members and that can be used for teaching. The resource can include lecture ideas, lab exercises and background information for particular concepts. It will be posted on the website of SICB and the NSF Biology education networks. Currently there are two modules, biomechanics and environmental endocrinology. It is proposed that evo-devo could become the third topic area. Our members are asked for comments (galis@rulsfb.leidenuniv.nl).
- Proposal for By-law changes, attendees approved the proposal to vote online on amendments and the proposal to introduce a secretary-elect and a program officer-elect. With respect to the introduction of the secretary-elect and program officer-elect we would like to propose a change in the duration of the terms of the secretary and program officer, such that the total duration of the term of officer-elect and subsequently of officer will be three years, see below for the complete proposal of Bylaw changes.
- Report of the student/post-doc representative, Brad Davidson

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- Symposium in 2006 "Movers and Shakers, The evolution of mesoderm", organized by Brad Davidson and John Gerhart, see report of the program officer.

As noted in the minutes, we would be very pleased if you would contribute to embellish our web pages, please contact me (galis@rulsfb.leidenuniv.nl). We would like our web pages to radiate the enthusiasm that we all feel for our discipline.

Message from the Student/Postdoc Representative

Nathan Bird

Greetings fellow graduate students and post-docs. Even all of the rain could not damper another great meeting in San Diego, and I hope you all enjoyed the meeting as much as I did. Another great showing for DEDB, with a rich amount of great evo–devo talks and posters. I was also glad to see so many of you at the grad student lunch, and if you missed out on that or the workshops, I hope everyone can attend at the next meeting. I also hope to see more student involvement at the DEDB business meeting; it is the best way to keep informed of issues faced by DEDB as well as the whole society.

Next, I would like to thank Brad Davidson for his wonderful work over the past few years as our representative, and I hope to keep the tradition going. Feel free to contact me at nbird@gwu.edu with any comments, questions, or concerns regarding any society, division, or SPDAC issues. Good luck on your research in the upcoming year.

Best wishes,

Nathan Bird

DEDB Candidates for Elections

Proposal for changes in the bylaws of DEDB and DCDB:

DEDB Bylaw changes.

- a) We would like to create the possibility for our divisions to use electronic ballots when voting about decision. To this end we need to change the bylaws. We, therefore, propose to change article XVII, see below.
- b) We would like to create the position of secretary–elect, so that a secretary elect can learn what to do from the current secretary before having to fulfill the position. The secretary elect would serve for one year and then serve a two–year term as secretary of the division. See below for proposed article V, X and Xa.

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c) We would like to propose that the term for secretary and program-officer becomes two years, like the term for the chair, instead of three years. Together with the year as elect there will be a three year term, see below for proposed article VIII and Xa.

Proposed *Article XVII. *

The passage of regular business at the annual business meeting of the Division shall be by a majority vote of those in attendance. Regular business may also be carried out by a mailed or e-mailed ballot, with passage dependent upon a majority vote of those votes received, either by mail or by e-mail.

*Current version: Article XVII. *

The passage of regular business at the annual business meeting of the Division shall be by a majority vote of those in attendance. Regular business may also be carried out by a mailed ballot with passage dependent upon a majority vote of those received in return.

Proposed *Article V. Officers*

The Officers of the Division shall be a Chair, a Past Chair, a

Chair-Elect, a Program Officer, a Program Officer-Elect a Secretary and a Secretary elect. All Officers except the Chair, Past Chair, Program Officer and secretary shall be elected by majority vote of all those members responding to a ballot submitted to the entire membership of the division, as required by the bylaws of the Society, at least sixty days before the expiration of the current officers' terms. The post of Chair will be filled automatically every two years by elevation of the previous year's Chair-Elect. In addition, the office of Past Chair shall be occupied by the individual whose term of office as Chair has most recently ended. The post of Program Officer shall be filled automatically by the elevation of the Program Officer-Elect, who will be elected one year prior to the expiration of the Program Officer's term. The post of Program Officer-Elect shall be limited to one year, the year prior to his/her elevation to the office of Program Officer. The post of Secretary shall be filled automatically by the elevation of the Secretary-Elect, who will be elected one year prior to the expiration of the Secretary's term. The post of Secretary-Elect shall be limited to one year, the year prior to his/her elevation to the office of Secretary. The terms of all officers shall be filled on the basis of the calendar year, beginning January 1. Graduate and postdoctoral representatives are appointed by the Chair.

Current version of Article V. Officers

The Officers of the Division shall be a Chair, a Past Chair, a Chair-Elect, a Program Officer, a Program Officer-Elect and a Secretary. All Officers except the Chair, Past Chair and Program Officer shall be elected by majority vote of all those members responding to a ballot submitted to the entire membership, as required by the bylaws of the Society, at least sixty days before the expiration of the current officers' terms. The post of Chair will be filled automatically every two years by elevation of the previous year's Chair-Elect. In addition, the office of Past Chair shall be occupied by the individual whose term of office as Chair has most recently ended. The post of Program Officer shall be filled automatically by the elevation of the Program Officer-Elect, who will be elected one year prior to the expiration of the Program Officer's term. The post of Program Officer-Elect shall be limited to one year, the year prior to his/her elevation to the office of Program Officer. The terms of all officers shall be filled on the basis of the calendar year, beginning January 1. Graduate and postdoctoral representatives are to be appointed by the Chair.

Proposed *Article VIII. Program Officer*

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The Program Officer shall be responsible for the arrangement of programs at the meetings of the Division. He/She shall serve for a term of two years and shall be eligible for re-election through the office of Program Officer-Elect. The Program Officer shall chair the Program Planning Committee, a standing committee composed of the members of the Divisional Committee plus the Program Officer-Elect as stipulated in Article IX.

Current *Article VIII. Program Officer*

The Program Officer shall be responsible for the arrangement of programs at the meetings of the Division. He/She shall serve for a term of three years and shall be eligible for re-election through the office of Program Officer-Elect. The Program Officer shall chair the Program Planning Committee, a standing committee composed of the members of the Divisional Committee plus the Program Officer-Elect as stipulated in Article IX.

Proposed *Article Xa. Secretary-Elect *

The Secretary-Elect shall assume the duties of the Secretary whenever that person is unable to act. He/She shall serve for a term of one year after which he/she shall automatically assume the position of Secretary for a two-year term.

Proposal: Article X. Secretary

The Secretary shall keep the records of the Division and handle the business affairs and shall perform such other duties as may from time to time be assigned to him/her. He/She shall serve for a term of two years and shall be eligible for re-election through the office of Secretary-Elect.

Current version:

Article X. Secretary

The Secretary shall keep the records of the Division and handle the business affairs and shall perform such other duties as may from time to time be assigned to him/her. He/She shall serve for a term of three years and shall be eligible for re-election.

Article V. Officers

The Officers of the Division shall be a Chair, a Past Chair, a Chair-Elect, a Program Officer, a Program Officer-Elect and a Secretary. All Officers except the Chair, Past Chair, Program Officer and secretary shall be elected by majority vote of all those members responding to a ballot submitted to the entire membership, as required by the bylaws of the Society, at least sixty days before the expiration of the current officers' terms. The post of Chair will be filled automatically every two years by elevation of the previous year's Chair-Elect. In addition, the office of Past Chair shall be occupied by the individual whose term of office as Chair has most recently ended. The post of Program Officer shall be filled automatically by the elevation of the Program Officer-Elect, who will be elected one year prior to the expiration of the Program Officer's term. The post of Program Officer-Elect shall be limited to one year, the year prior to his/her elevation to the office of Program Officer. The post of Secretary shall be filled automatically by the elevation of the Secretary-Elect, who will be elected one year prior to the expiration of the Secretary's term. The post of Secretary-Elect shall be limited to one year, the year prior to his/her elevation to the office of Secretary. The terms of all officers shall be filled on the basis of the calendar year, beginning January 1. Graduate and postdoctoral representatives are to be appointed by the Chair.

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Current version of Article V. Officers

The Officers of the Division shall be a Chair, a Past Chair, a Chair–Elect, a Program Officer, a Program Officer–Elect and a Secretary. All Officers except the Chair, Past Chair and Program Officer shall be elected by majority vote of all those members responding to a ballot submitted to the entire membership, as required by the bylaws of the Society, at least sixty days before the expiration of the current officers' terms. The post of Chair will be filled automatically every two years by elevation of the previous year's Chair–Elect. In addition, the office of Past Chair shall be occupied by the individual whose term of office as Chair has most recently ended. The post of Program Officer shall be filled automatically by the elevation of the Program Officer–Elect, who will be elected one year prior to the expiration of the Program Officer's term. The post of Program Officer–Elect shall be limited to one year, the year prior to his/her elevation to the office of Program Officer. The terms of all officers shall be filled on the basis of the calendar year, beginning January 1. Graduate and postdoctoral representatives are to be appointed by the Chair.

DDCB bylaw changes

1. We propose to make it possible to vote using electronic ballots and not only mail ballots, see proposals for articles XVI, XVII.
2. We propose to make it possible to elect officers using electronic ballots and not only mail ballots, see proposal for article V.

Article XVI. Amendments

These Bylaws may be amended in response to a ballot by two–thirds vote of those ballots received, provided that notice has been given to all members sixty days in advance.

*Article XVII. *

The passage of regular business at the annual business meeting of the Division shall be by a majority vote of those in attendance. Regular business may also be carried out by a ballot with passage dependent upon a majority vote of those received in return.

Current version of Article XVI. Amendments

These Bylaws may be amended in response to a mailed ballot by two–thirds vote of those ballots received, provided that notice has been given to all members sixty days in advance.

*Current version of Article XVII. *

The passage of regular business at the annual business meeting of the Division shall be by a majority vote of those in attendance. Regular business may also be carried out by a mailed ballot with passage dependent upon a majority vote of those received in return.

Article V. Officers

The Officers of the Division shall be a Chair, a Past Chair, a Chair–Elect, a Program Officer, a Program Officer–Elect and a Secretary. All Officers except the Chair, Past Chair and Program Officer shall be elected by majority vote of all those members responding to a ballot submitted to the entire membership, as required by the bylaws of the Society at least sixty days before the expiration of the current officers terms. The post of Chair will be filled automatically every two years by elevation of the previous year's Chair–Elect. In addition, the office of Past Chair shall be occupied by the individual whose term of office as Chair has most recently

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ended. The post of Program Officer shall be filled automatically by the elevation of the Program Officer–Elect, who will be elected one year prior to the expiration of the Program Officers term. The post of Program Officer–Elect shall be limited to one year, the year prior to his/her elevation to the office of Program Officer. The terms of all officers shall be filled on the basis of the calendar year, beginning January 1.

Current version of Article V. Officers

The Officers of the Division shall be a Chair, a Past Chair, a Chair–Elect, a Program Officer, a Program Officer–Elect and a Secretary. All Officers except the Chair, Past Chair and Program Officer shall be elected by majority vote of all those members responding to a mail ballot submitted to the entire membership at least sixty days before the expiration of the current officers terms. The post of Chair will be filled automatically every two years by elevation of the previous year's Chair–Elect. In addition, the office of Past Chair shall be occupied by the individual whose term of office as Chair has most recently ended. The post of Program Officer shall be filled automatically by the elevation of the Program Officer–Elect, who will be elected one year prior to the expiration of the Program Officers term. The post of Program Officer–Elect shall be limited to one year, the year prior to his/her elevation to the office of Program Officer. The terms of all officers shall be filled on the basis of the calendar year, beginning January 1.

Division of Ecology & Evolution (DEE): 2005 Spring Newsletter

In this newsletter:

- [Message from the DEE officers](#)
- [Candidate list for elections](#)

Message from the Chair *Fred Janzen*, Secretary *Anthony Steyermark* and Program Officer *Emily Carrington*

Greeting from the DEE officers: San Diego was a great meeting and we would like to thank everyone who helped to make it so. DEE co-sponsored four symposia and by all accounts these were very successful.

This year we had thirty students compete for the DEE best paper presentation award and thirteen students compete for the best poster presentation award. As always the judges had a very hard time selecting the winners of the competitions. In fact, the presentations were so good this year that we have two winners of the best paper presentation. The winners are Michael O'Donnell (Hopkins Marine Station, Stanford University) for his talk entitled "*Big Breaking Waves Bashing Small Sessile Stuff*" and Robert Cox (Rutgers University) for his talk entitled "*Does Female Reproductive Investment Constrain Growth and Promote Male-Larger Sexual Size Dimorphism in Yarrow's Spiny Lizard, Sceloporus jarrovii?*" The winner of the best student poster competition was Elizabeth Neeley (Boston University) for her presentation entitled "*Adaptive response of color patterns in the Labroidei to environmental parameters: a comparative approach*" Michael, Robert, and Elizabeth will each receive an award of \$100, a certificate, and our best wishes for continued success in their research endeavors.

We especially thank all of the DEE members who graciously volunteered their time at the meeting to serve as judges for the competitions: Nancy Aguilar-Roca, Mike Angilletta, Jimena Aracena, Audrey Aronowsky, Patrick Baker, Marilyn Banta, Larry Basch, Lisa Belden, Jim Biardi, Kim Bostwick, Rachel Bowden, Alex Cheroske, Dennis Claussen, Ann Cleveland, Mary Alice Coffroth, Erica Crespi, Steve Dinkelacker, Chuck Drabek, Bobby Espinoza, Michael Finkler, Jennifer Gee, Cameron Ghalambor, Allen Gibbs, Ken Gobalet, Mike Greene, Brian Helmuth, John Hranitz, Duncan Irschick, Dan Janes, Debbie Kristan, Egle Krosniunas, Jimmy Liao, Bill Lutterschmidt, Karen Martin, Marion McClary, Kevin McGraw, Rachel Merz, Don Miles, Dianna Padilla, David Penick, Maria Pereyra, Bob Podolsky, Marney Pratt, Wendy Reed, Margaret Rubega, Mike Sears, Brent Sinclair, Tony Steyermark, Jonathon Stillman, Ralph Turingan, Jeff Walker, Marcus Webster, Joe Williams, Blair Wolf, and Pete Zani.

We are looking forward to an exciting meeting in San Diego next January, where DEE is sponsoring or co-sponsoring three symposia: 1) "*Ecological Immunology: Recent Advances and Applications For Conservation and Public Health*" (a Society-wide symposium), organized by Kelly Lee, Bram Lutton, and Martin Wikelski; 2) "*Integrating Function over Marine Life Cycles*", organized by Robert Podolsky and Amy Moran; 3) "*Ecophysiology and Conservation: the Contributions of Energetics*", organized by Robert Stevenson.

The DEE webpage is now featuring the research of its division members. Please check out the site at <http://www.sicb.org/divisions/dee.php3>. If you would like to contribute material to the site please submit text files as either Word or text documents, images as either tif, jpg, png, or gif, and movies as avi or mpeg to Tony Steyermark (acsteyermark@stthomas.edu).

Division of Ecology and Evolution Business Meeting Minutes

Meeting called to order at 5:20 on Thursday January 6, 2005

The meeting started with 12 members in attendance

Minutes from last year were approved.

Rachel Merz spoke about the digital library that Trish Morse is organizing. This project will create online materials for use by K–12 as well as college students. The modules of this digital library will focus on the strengths of SICB members and will try not to overlap with existing libraries. The digital library will be tied to the Biological Education Network (BEN). Rachel requested that anyone who would be interested in providing materials for the digital library or would like to help with organizing additional modules she contact her or Trish Morse.

Secretary's Report – Michael Temkin

Mike reported that forty–two students were participating in the student competitions for the best paper and poster presentation. Mike said that fifty–six people were serving as judges this year. Mike thanked all of those who were participating. Mike reported that we are beginning to organize a webpage to showcase the research of DEE members. Almost thirty members have responded to a request for material for the webpage. Mike has passed the material on to the SICB webmaster who is going to assemble the webpage. We plan to display a member's entry each time someone accesses the DEE webpage on the SICB site. The entries will appear randomly. A link to a webpage containing entries for all of the research material will also appear on the DEE webpage.

Program Officer's Report – Emily Carrington

Emily reported that DEE sponsored four symposia here at the San Diego meeting: 1) "*Desiccation Tolerance in Animals, Microbes, and Plants: Comparative Mechanisms and Evolution*", 2) "*The New Microscopy: Toward a Phylogenetic Synthesis*", 3) "*Mating Systems and Sexual Selection in Hermaphrodites*", and 4) "*Complex Life–histories in Marine Benthic Invertebrates: A Symposium in Memory of Larry McEdward*". She stated that so far DEE will be sponsoring three symposia at the 2006 annual meeting in Orlando. These symposia are: 1) "Ecological Immunology: Recent Advances and Applications For Conservation and Public Health" (a Society–wide symposium), organized by Kelly Lee, Bram Lutton, and Martin Wikelski; 2) "Integrating Function over Marine Life Cycles", organized by Robert Podolsky and Amy Moran; 3) "Ecophysiology and Conservation: the Contributions of Energetics", organized by Robert Stevenson.

Dianna Padilla asked if the executive committee could be approached about removing the requirement of symposia organizers to submit a proposal to NSF before the Society would wave speakers fees. Dianna pointed out that NSF proposals required significant time and energy to write, and had very small chances of being funded. She said that she hoped that the Society would recognize that the time of symposia organizers would be better spent in other ways.

Emily reminded us that last year we had begun to change "topics" to choose from when we submit our abstracts. She said that these new topics seem to be working better than the old topics. She asked that if

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anyone had additional topics to add or change that they should contact her.

Emily discussed the decision to remove the divisional association requirement from the best student paper and poster competition. She said that with the ability of SICB members to change their divisional associations whenever they want it did not seem to make sense to require students to belong to the particular division in which they were competing.

After a brief discussion, the DEE member in attendance agreed that we should no longer require students to belong to our division to compete in the best student paper and poster competitions. Furthermore, those at the business meeting, did not have a problem with allowing students from associated organizations, such as the American Microscopical Association, to compete for the best student paper and poster awards.

Fred Stollnitz from the National Science Foundation discussed the reorganization of the Integrative Organismal Biology Section at NSF. Fred said that there were now four clusters: Behavioral Systems, Developmental Systems, Environmental and Structural Systems, and Functional and Regulatory Systems. Fred reported on the funding cuts at NSF and said that funding rates were expected to be between 10 and 15%. He said that it would be unlikely that there would be funds available to support symposium speakers. However, Fred said that they were trying to maintain the size of awards and the early career programs. He also discussed that there are special programs that members of SICB may be interested in and he suggested that we check the NSF information booth at the meeting or the website for more information.

At this point the SICB Executive Committee – including John Wingfield, Sally Woodin, John Pearse, Brett Burk, and Ronald Dimock joined the business meeting.

John Wingfield introduced the committee and spoke to several Society Issues:

- 1) NSF will not fund symposia at levels that we have had in the past and we need to increase our levels of support for symposia.
- 2) Revenue from journal is going down – one problem is the loss of subscriptions and the second problem is that we get no revenue from the online version of the journal.
- 3) To solve these problems the Society is considering joining with a real publisher “ for marketing, connections to abstracting organizations, and web access.

Mary Alice Coffroth gave the President's Report. Mary Alice reported that at the Executive committee meeting several issues had been raised.

- 1) The society as a whole is in good but not great financial shape. A large part of the financial problem is the revenues from the journal are decreasing. To solve this problem, the society is considering four different publishers: Blackwell Publishing, Elsevier, Oxford University Press, and University of California Press. By publishing through these presses, we may get more money for online access, but price increases may occur. Therefore, we are seeking need input on this issue from division members.
- 2) Some suggestions were made to give the journal a face lift: including papers other than symposia; reviews; "hot recent papers". Additional suggestions are needed.
- 3) The site for the 2006 meeting is Orlando, and the site for the 2007 is downtown Phoenix.
- 4) The suggestion was made that the Committee on Diversity, currently an ad hoc committee, should be made a standing committee.

5) The Society website contains some small changes in wording to the Society strategic plan.

The suggestion was made to infuse a greater conservation biology component into the society. There is interest from younger and newer members in conservation biology issues. How can the society make a meaningful contribution?

We will be sending a ballot during the summer for elections of division chair and program officer, as well as for a by-law change regarding the best student paper award rules.

Sophia Hussain, the DEE student representative, discussed two workshops at next meeting: How to get the most out of your graduate career, and How to get the most out of your postdoc years? She also discussed the idea of a "First time orientation", based on how to navigate your way through your first SICB meeting as a student.

Respectfully Submitted,

Anthony Steyermark

DEE Secretary

DEE Candidates for Election

Candidates for DEE Program Officer

Jennifer Elwood

Current Position: Assistant Professor, Biology Department, Anne Arundel Community College

Education: B.A., Lehigh University, 1986. M.S., Old Dominion University, 1988. Ph.D., Drexel University, 2003.

Professional Experience: Instructor, Drexel University, 2000–2004; Research Assistant, Desert Tortoise Project, Drexel University, 1999; Graduate Assistant, Drexel University, 1995–1998; Adjunct Professor, Camden County College, 1991–1997.

SICB Activities: Member since 2000

Other Memberships: American Society of Naturalists; American Society of Ichthyologists and Herpetologists, Society for the Study of Amphibians and Reptiles, Herpetologist's League, Virginia Herpetological Society, Nature Conservancy.

Research Interests: My research interests are varied. Current research centers around the physiological ecology of amphibians, primarily salamanders. Past focal areas have been in functional morphology, particularly the feeding mechanics of salamanders.

Goals Statement: I have been attending SICB meetings off and on since the 1980's, first as a student and now as a member. In all that time I have always found this society to provide the diversity that someone with my varied research interests desires. That is a key strength of this society – the large interdisciplinary scope. Because I have enjoyed the benefits of this society for so long, I now desire to give back to the group. As such, I think it important that we continue in this tradition and try to bring together more of the various fields with symposia.

Austin W. Francis, Jr.

Current position: Visiting Assistant Professor, Richard Stockton College, NJ

Education: B.Sc., Marine Biology, Roger Williams University, 1993. M.S., Zoology, University of Rhode Island, 1996. Ph.D., Biology, Florida Institute of Technology, 2002.

Professional Experience: Visiting Assistant Professor, Biology, Saint Joseph's University, 2003–04. Post–doctoral Fellow, Biology, Villanova University, 2003.

SICB Activities: Member 2000–present; Poster Presentation in 2000; Oral Presentations in 2001, '02, '04, '05; Session Chair 2005.

Other Memberships: American Elasmobranch Society, American Society of Ichthyologists and Herpetologists, Sigma Xi

Research Interests: Functional morphology, ecological morphology, and evolution of vertebrates, particularly fishes.

Statement of Goals: Since joining SICB as a graduate student, I have found the annual meetings priceless for staying abreast of my field. I have also valued the ability for session programming to bring diverse groups together in an interdisciplinary setting. As Program Officer, I would continue to develop these traditional strengths, but I would also work towards developing symposia and programming sessions that bridge society divisions. I also acknowledge that symposia and session programming strongly influence society membership and meeting attendance. My discussions with junior members of the society suggests that more could be done to represent their interests. All together, I would work hard to bring traditional, contemporary, and novel programs together that synthesize ideas and represent today's multi–disciplinary approach to ecology and evolution.

Candidates for DEE Chair–Elect

George S. Bakken

Current Position: Professor, Department of Ecology and Organismal Biology, Indiana State University, Terre Haute, IN

Education: B.S. North Dakota State University, Fargo, ND, 1965. M.A., Rice University, Houston, TX, 1967. Ph.D., (Physics), Rice University, Houston, TX, 1970. Ford Foundation Fellowship (Ecology), Missouri Botanical Garden and The University of Michigan, 1970–1972.

Professional Experience: Research Associate II, 1972–1975, The University of Michigan, Ann Arbor, MI. Assistant Professor, 1975 – 1978, Associate Professor, 1978 – 1983, Professor 1983 – 1988, Distinguished Professor of Arts and Sciences, 1988–present, Director, Center for Biodiversity Studies, 1994–present, Indiana State University, Terre Haute, IN.

SICB Activities: Member since 1983. I have attended most meetings since joining and chaired many oral paper sessions, but I have not yet held a leadership position.

Other Memberships: American Ornithologist's Union, American Association for the Advancement of Science, British Ecological Society, Ecological Society of America, Indiana Academy of Sciences, Sigma Xi.

Research Interests: As you might expect from my peculiar background, my interests are interdisciplinary and process-oriented. Most of my research has involved aspects of organismal biology that benefit from explicit use of methods and principles drawn from physics (<http://www.indstate.edu/ecology/faculty/bakken.htm>). My published work has emphasized thermal aspects of physiology, and behavior, as well as micrometeorology and ecology. More recently, I've been going back to my roots in optical physics with ongoing projects on thermal imaging by the pit organ of rattlesnakes and the use of airborne thermal imaging to construct thermal maps of lizard habitats for a variety of studies.

Statement of Goals: My continuing involvement with SICB reflects the interdisciplinary emphasis of the society. It has become the premier venue for physiological (or better, functional) ecology studies that cross levels of organization to give functional understanding of ecological processes. The many students I have brought to meetings have benefited greatly from interactions with people that work at different levels of organization. My priority would be to continue and strengthen support for student attendance at meetings as essential to both the professional development of students and the future of the society. We should continue to build on our strength in functional ecology by encouraging symposia that show vertical linkages by recruiting and making welcome speakers that address an ecological problem at various levels of integration, from natural history and systematics through behavior and organismal function to cellular mechanisms. At least in my personal contacts, it appears that conservation and wildlife management activities are taking increasing notice of the ecological role of physiology, behavior, and function. This is an area where the society has begun, and could continue, to make useful contributions to a wider audience.

Joe B. Williams

Current Position: Associate Professor, Ohio State University

Education: B.A., David Lipscomb University, Nashville, Tennessee, 1970. M.A., Zoology, University of Illinois, Urbana, Illinois, 1974. Ph.D., Ecology and Evolution, University of Illinois, Urbana, Illinois, 1977. Postdoctoral Fellow, University of Pennsylvania, 1980–1982.

Professional Experience: Visiting Instructor in Biology at University of Illinois, 1976. Assistant Professor, Division of Natural Science, Pepperdine University, Malibu, California, 1977–1979. Postdoctoral Fellow, University of Pennsylvania, Philadelphia, Pennsylvania, 1980–1982. Associate Professor, Pepperdine University, Malibu, California, 1982–1986. Visiting Research Fellow, University of Western Australia, Perth,

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Western Australia, 1986. Research Fellow, University of Arizona, Tucson, Arizona, 1986–1989. C.S.I.R. Fellow, University of Cape Town, Rondebosch, South Africa, 1988–1994. Assistant Professor, Ohio State University, 1994–1998.

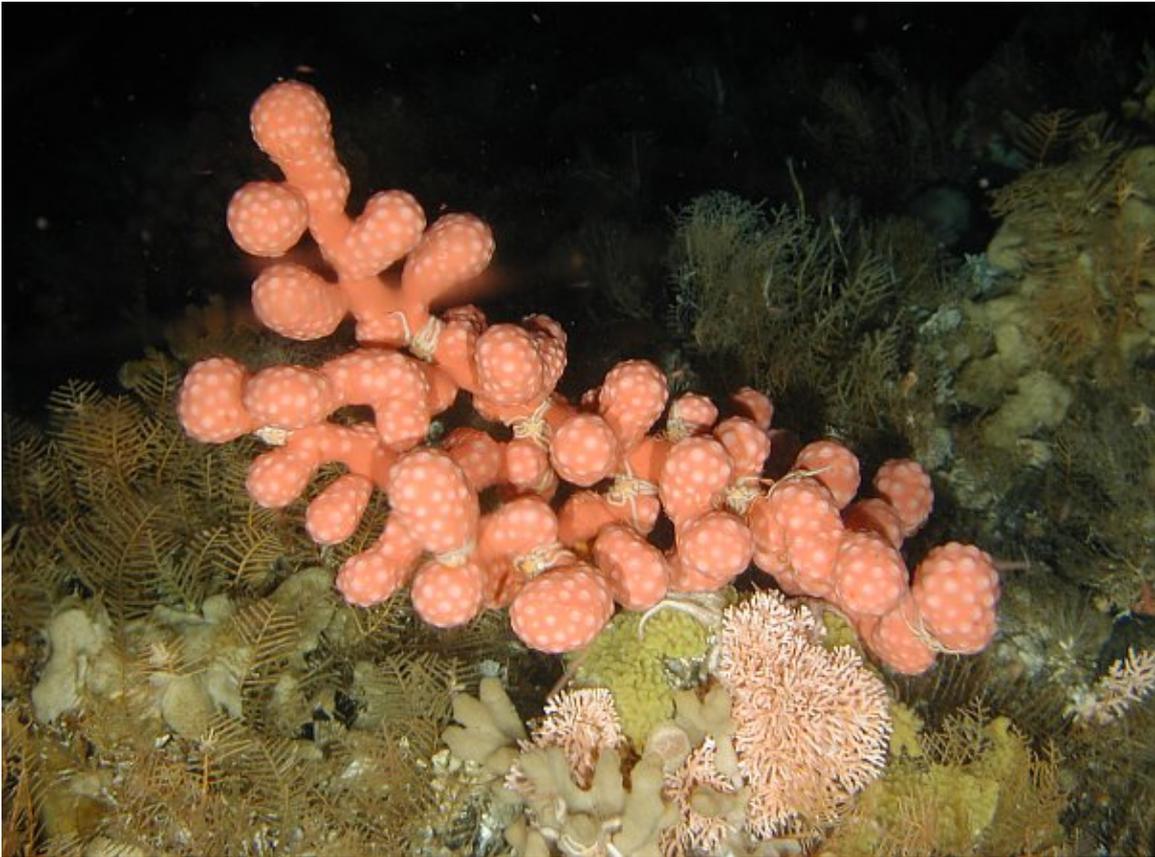
SICB Activities: 6 posters, 8 oral presentations, symposium speaker for SICB symposium "Taking Physiology to the Field". 17 papers published in *Physiological and Biochemical Zoology*. 1 paper published in *Integrative and Comparative Biology*. Editorial Board, *Physiological and Biochemical Zoology*.

Other memberships: Ecological Society of America, American Ornithologists Union, Cooper Ornithological Society.

Research Interests: Research in our laboratory is generally concerned with both pattern and process of physiological adaptation of animals, especially vertebrates. Because studies on animals living in harsh environments often provide insights into the constraints and mechanisms driving physiological adjustment, we concentrate much of our work in regions of climatic extremes, especially deserts. Much of our work has revolved around attempts to understand the factors that influence energy and water requirements because these together are fundamental requisites for life and likely candidates for the action of natural selection. We have two major themes in our laboratory at the moment, an examination of the influence of lipids in the skin of birds on cutaneous water loss, and a study connecting genotype with phenotype on European Stonechats. We have found that larks from deserts have lower cutaneous water loss than larks from mesic regions, and that this is associated with changes in the lipid composition of the skin. We are currently identifying specific lipid molecules expressed by the epidermis when birds are exposed to different environments. For our study on Stonechats we are exploring selection on mitochondria and how changes in polypeptides encoded by mtDNA might influence oxygen consumption both at the organelle and whole-organism level.

Goals Statement: The SICB has as one of its goals to facilitate "Integrative Biology" among its members. I think that we need to highlight this goal, and to insure that members of the DEE have the opportunity to exchange ideas with other members in far different fields of endeavor from their own.

Division of Invertebrate Zoology (DIZ): 2005 Spring Newsletter



Deep-sea corals off Alaska (A. Lindner/NOAA)

In this newsletter:

- [Message from the Chair](#)
- [Message from the Program Officer](#)
- [Message from the Secretary](#)
- [Message from the Graduate Student–Postdoctoral Affairs Committee Representative](#)
- [Message from the Student Awards Committee Chair](#)
- [Message from the Editor of Invertebrate Biology](#)
- [Minutes of the 2005 Annual Business Meeting](#)
- [Elections: Candidates for DIZ Chair](#)

Message from the Chair

Thomas Wolcott

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I was delighted to see so many DIZ members manifestly having a good (and of course productive) time in my natal city, San Diego. We even got to see real-world environmental science, meeting during exceptionally rainy weather in facilities that are textbook examples of floodplain development. The real flood, fortunately, was one of fascinating titles, more than one could run to when heavily ballasted with *comidas Mexicanas*. As always, there also was a plethora of interesting symposia to further augment our desire to be in multiple places at once. Every year I marvel at the breadth and depth of SICB, and the capabilities of the rising generation(s) of biologists. Thank you all for making these such good meetings!

Last spring you elected a new Program Officer, Amy Moran. She'll be taking office soon, which will give her something to do with all those idle hours that come from having a new baby around the house. Be nice to her and observe all the deadlines so she doesn't need to discipline you!

This spring DIZ chooses a new chair-elect, and the hard-working DIZ nominating committee (Pat Reynolds, Bruno Pernet, and Shea Tuberty, chaired by Susie Balser) has presented a slate of highly competent candidates (a change that could drastically alter the effectiveness of the office). Please review their credentials and vote!

Penny Barnes, whose energy and dedication often have left me feeling tired, will be handing the P.O. reins over to Amy Moran. Penny is to be thanked not only for helping to shape the program, but also for arranging the very pleasant AMS/DIZ/DEE/TCS social, which was exceptionally well attended and, by all evidence, enjoyed. Penny, a thousand thanks!

Sara Lindsay is another who has given yoepersonly service. For many years she has chaired the Best Student Paper/Poster Committee, a really labor-intensive post. Many, many thanks, Sara! Once again we had an impressive array of really good presentations; the future of integrative biology is in good hands! Please see Sara's announcement of the winners from the San Diego meetings. In this context, the SICB Program Officers collectively have suggested that all divisions with Best Paper awards delete the requirement for membership in that division. Since divisional membership is so fluid anyway, they suggest simplifying the process by allowing students to compete in whichever division seems most appropriate to their presentations. We will soon have a web-based forum to discuss this and other proposed changes to the divisional bylaws.

Thanks also (indeed, double thanks) to Ben Miner, who has been serving as the Graduate Student/Postdoc representative. He too is stepping down and/or up; he has consented to assume Sara's role as Best Paper Committee Chair. I am pleased to announce that Scott Nichols (postdoc at UC Berkeley) has accepted appointment as Ben's successor.

The Libbie Hyman Award last year went to Heidi Weiskel, who spent time at Friday Harbor Labs. Her experience epitomizes what the award is all about. With her permission, I quote, "I returned from Friday Harbor so thrilled about zoology and getting out in the field with these critters and tromping around in the mud that I returned to Davis and switched my degree focus from policy to marine ecology. Done. Friday Harbor was a brilliant experience, and I am grateful to you and Amy both, along with the selection committee, for awarding me the scholarship." We wish Heidi the very best as she forges on in a new direction!

This year's scholarship winner is Rafael Rosengarten, a first year graduate student in the Department of Cellular and Developmental Biology at Yale University. Rafael is interested in neuromusculature and myogenic differentiation in lower metazoans, and embryology of Placozoa. The Hyman Scholarship will help him participate in FHL's embryology course this coming summer.

Plans are afoot for a SICB digital library that will be a rich source of teaching tools. The first module will be "biomechanics", and is under construction. Trish Morse is serving as the point person.

Message from the Program Officer

Amy Moran

The 2005 SICB meeting in San Diego was a great success! The total number of presentations at the meeting was 1001, with 374 posters and 627 talks. DIZ, as always, was well represented in both oral presentations (58) and poster sessions (35), including 20 abstracts for the Best Student Paper competition. There were eight symposia and two mini-symposia at the meeting, and DIZ was the primary or additional sponsor of six of these. Dianna Padilla and Ben Miner's "*Complex Life-histories in Marine Benthic Invertebrates: A Symposium in Memory of Larry McEdward.*" which had DIZ as primary sponsor and DEE as an additional sponsor, was very well-received. "*Mating Systems and Sexual Selection in Hermaphrodites.*" organized by Janet Leonard, had DIZ and DAB as primary sponsors and DEE as additional sponsor. DIZ also joined DSEB and DEDB as a primary sponsor for "*WormNet: Recent Advances in Annelid Systematics, Development, and Evolution*" organized by Ken Halanych; and DIZ, DEE, DNB, DEDB, and DSEB were additional sponsors for the American Microscopical Society's symposium "*The New Microscopy: Toward a Phylogenetic Synthesis.*" organized by Ruth Ann Dewel, Kathy Coates, Mary Beth Thomas, Clay Cook, and Julian Smith. Both of the latter symposia were well attended by DIZ members and got rave reviews. DIZ was also an additional sponsor for two society-wide symposia, "*Desiccation Tolerance in Animals, Microbes, and Plants: Comparative Mechanisms and Evolution*" organized by Peter Alpert, James Clegg, Brent Mishler, and Mel Oliver; and "*Terminal Addition, Segmentation, and the Evolution of Metazoan Body Plan Regionalization*" organized by Nigel Hughes and David Jacobs.

The joint DIZ/AMS/DEE/TCS social was exceptionally well attended. There was standing room only at some points in the evening and everyone gave the social rave reviews; the Mexican food buffet was superb and, fantastically, the food kept on coming!

For 2006 in Orlando DIZ will be primary sponsor of two symposia: "*Genomic and Proteomic Approaches in Crustacean Biology,*" organized by Donald Mykles and David Towle, and "*Integrating function over marine life cycles,*" organized by Bob Podolsky and Amy Moran. The deadline for submission of proposals for the 2007 SICB meeting in Phoenix is **August 19, 2005**. Please start thinking about exciting symposium ideas for 2007 and e-mail me (amoran@unc.edu) or Society Program-Officer-Elect Linda Walters with any questions you may have. General information and the symposium proposal submittal forms are posted on the SICB website.

Message from the Secretary

Bob Thacker

It was great to see everyone in San Diego. At the meeting, several DIZ members expressed interest in participating in a database of invertebrate zoology researchers on the DIZ website. Ruedi Birenheide has done a great programming job and now has the database up and running:

<http://sicb.org/divisions/DIZ/researchers.php3>.

If you would like to participate, please send me a photo (or data on a graph or even a theoretical model) from your research, along with a short title, and a paragraph describing the image. The image should be in jpeg or tiff format, while the text can be MS Word or RTF format. Please e-mail your submission to me:

thacker@uab.edu. Please note: if you have already submitted information to another division's database, you can just let me know which division that is, and we can link to your existing submission.

We are in the process of updating the divisional bylaws; all proposed changes are available for review on the SICB website in an electronic forum: <http://sicb.org/phpBB2/index.php>. The proposed changes include rather bland incorporations of electronic balloting and a clearer definition of officers' terms. We also discussed another change at the 2005 Business Meeting: removing DIZ membership as a requirement for participation in the best student presentation awards. This proposal generated quite a few comments that might be appropriate for further discussion. Please post your comments or suggestions on the electronic forum. In addition, you are welcome to review and suggest other changes to our current bylaws, available on the SICB website: <http://sicb.org/handbook/bylaws.php3#dizbylaws>.

This spring, we are holding an election for the position of Chair of DIZ. Biographical sketches for Janice Voltzow and Jon Norenburg are provided at the end of this newsletter. Please participate in the election, because your vote counts!

Message from the Graduate Student – Postdoctoral Affairs Committee Representative

Ben Miner

Hello fellow students and postdocs. The San Diego meeting is behind us, and I would like to extend the Division's thanks to all the graduate students who worked to make this meeting such a success. I would also like to congratulate Constance Rogers–Lowery for winning the best student oral presentation, Ted Uyeno for winning the best student poster presentation, and Sarah Berke for winning the Adrian Wenner Strong Inference Award. I encourage all undergraduate, graduate, and recently graduated (< 1 year) students to enter these competitions in 2005. The next meeting will be held in Orlando, January 4–8, 2006.

To ensure SICB continues to consider the needs of graduate students, I encourage comments and suggestions for improving future meetings. In particular, I am interested in whether people would like to have a livelier social. In New Orleans a band played at the social, and the Student/Postdoc Committee is considering having a band at the social each year. Please email suggestions to me at bgminer@ucdavis.edu.

Good luck with your studies and research!

Message from the Student Awards Committee Chair

Sara Lindsay

Thank you to all of the students and judges who participated in the DIZ Student presentation competition at the meeting in San Diego. There were many wonderful presentations, and I really enjoyed seeing the diversity of research DIZ students are involved in -- keep up the great work! Constance Rogers-Lowery won first prize in the oral presentation for her talk titled "Antibody-mediated immune response of fish during development of acquired resistance against larvae of freshwater mussels." Joseph Spagna was the runner-up among the oral presentations; his talk was on the "Contribution of a distributed foot to running performance in arthropods." Ted Uyeno took first prize among the poster presentations with his work on "The function of cephalopod buccal mass musculature." Beth Davis was the runner up for the best poster; her presentation was on "Predicting potential distributions of invasive land snails via ecological niche modeling." Sarah Berke, who spoke on "Behavioral balancing acts: energy and mortality trade-offs in young decorator crabs," was the winner of the Adrian Wenner Award for Strong Inference. Congratulations to all! Students should hear soon from Tom Wolcott with more details about your awards. Thank you again to all of our dedicated judges -- I've enjoyed working with you over the last four years. I encourage you to help Ben Miner next year when he takes over the reins as chair of the DIZ student award committee.

Wormly,

Sara Lindsay

Message from the Editor of *Invertebrate Biology*

Patrick D. Reynolds

Greetings to all DIZ members! *Invertebrate Biology*, the journal of the American Microscopical Society and the Division of Invertebrate Zoology, celebrates 125 years of continuous publication this year. The year also sees considerable change at the journal. As I write, the first issue of *Invertebrate Biology* with Blackwell Publishing, v.124, no.1, winter 2005, was published on March 10 and has been mailed. This marks the culmination of over two years' work on the direction of the journal, and we are pleased to have reached this point of the transition. Those who subscribed in 2004 will receive the first 2005 issue gratis, along with information on how to subscribe for the year, which includes membership in AMS. Hardcopy renewals have also been mailed to all 2004 subscribers. Please support your journal by subscribing or renewing your subscription (and membership in AMS); this can be done online at <http://www.blackwellpublishing.com/IVB> (you will find a link to the left for "membership"; institutional subscriptions under "subscribe/ renew").

We are excited about the changes in our journal. While you will notice a cover make-over and some minor stylistic changes within, the most significant change is that articles in *IB* will now also be published online through the Blackwell Synergy system. All subscribers will receive access upon renewal, but you can view the current issue free at <http://www.blackwellpublishing.com/IVB> (upper right for link to online content). While we have worked through many aspects of production during the transition, I welcome your comments on any aspect of the journal in this new phase of its long history.

Starting with this volume, greater support will be given to authors. There will be no page or color plate charges (the latter with editorial approval). We hope that this will encourage submissions, particularly of studies requiring color illustrations such as those using confocal and fluorescence microscopy -- but of course *IB* publishes on all aspects of the biology of invertebrates; recent issues include phylogenetics, behavior,

physiology, neurochemistry, and development, to name just a few subdisciplines. Additionally, a pdf file of the published article will be provided to authors for personal posting (hardcopy reprints can still be purchased). Finally, we also now have online submission and review at <http://mc.manuscriptcentral.com/invbio>. Please consider IB for your manuscripts!

There will be a considerable increase in the number of online databases and service providers that index and provide access to *IB*, with a more international reach. We anticipate that this, along with online publication, should further enhance the citation rate for the journal (which is already quite competitive; feel free to contact me for more information on this or any aspect of the journal).

Despite all these changes, we are pleased that *Invertebrate Biology* remains one of the lowest-priced journals in our field to both individual and institutional subscribers. Rates for individual subscribers for 2005 is still only \$38, students \$19; institutional subscriptions start at \$166.

In a separate initiative, we have joined JSTOR, the Scholarly Journal Archive. The scanning of the entire back run of *IB*, to the first volume in 1880, is proceeding apace, and we expect all issues, up to 5 years prior to the current issue, to be available online later this year.

Thank you all for your support of the journal, especially those who have reviewed or submitted manuscripts. I look forward to continuing to work with you.

Sincerely,

Pat Reynolds
preynold@hamilton.edu

Minutes of the 2005 Annual Business Meeting

Thomas Wolcott (DIZ Chair) opened the meeting by approving the minutes of the previous year's meeting. Chair Wolcott announced the results of the Program Officer election: Amy Moran will be the next DIZ Program Officer.

Chair Wolcott solicited nominations for the next Chair of DIZ, and sought DIZ members to join the nomination committee. Ben Miner, former Graduate Student – Postdoctoral Affairs Committee Representative, has now become the Student Awards Committee Chair. Chair Wolcott requested nominations for a new Graduate Student – Postdoctoral Affairs Committee Representative.

Chair Wolcott announced the Libbie H. Hyman Memorial Scholarship winner, Heidi Weiskel. Former Student Awards Committee Chair Sara Lindsay announced the winner of the 2004 Best Student Paper awards, Alex Cheroske, with runner-up Jeff Riffell. The 2004 Best Student Poster award was won by Collin Johnson, with runner-up Constance Rogers-Lowery. Michelangelo Von Dassow won the Adrian Wenner Strong Inference Award, with runner-up Sheri Johnson. Chair Wolcott and all of the meeting attendees thanked Sara for several years of service administering the student awards program.

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DIZ Program Officer Penny Barnes announced changes in the rules for the Best Student Paper & Poster awards. Currently, DIZ and two other divisions require students to be members of their divisions to compete for these awards. Elimination of the requirements for division affiliation was proposed. This change will need to be incorporated into the DIZ bylaws. Several attendees discussed the recognition of divisional affiliation during the Best Student Paper competition.

In 2005, 6 of 8 symposia are DIZ co-sponsored or supported. Many of the symposia also garnered strong participation in complimentary sessions. For the 2006 SICB meeting in Orlando, 2 symposia are sponsored by DIZ. The deadline for symposium proposals for 2007 is now August 19, 2005. The 2007 meeting is tentatively scheduled for Tucson, Arizona, with a future meeting perhaps in an international venue or Puerto Rico.

The SICB Executive Committee visited our business meeting. SICB President John Wingfield stated that the major issues facing the society are financial, including declining NSF support for symposia and declines in journal revenues with a loss of institutional subscriptions. The society is committed to maintaining support for students and symposia. President Wingfield encouraged discussion of these issues and attendance at the society-wide business meeting.

Tom Vandergon, from the NSF Division of Integrative Organismal Biology (IOB) solicited applications for symposium support, even though NSF funding is tight. There is currently a relatively low funding rate for grant proposals; many proposals judged worth of funding cannot be fully funded. Dr. Vandergon requested that DIZ members attend the NSF funding discussions later in the meeting. He also solicited supplemental funding applications in support of undergraduate research.

Patrick Reynolds discussed the status of the journal *Invertebrate Biology*, which is now co-published with Blackwell and available on-line through Synergy. The entire catalog of *Invertebrate Biology* will soon be on-line through JSTOR. Dr. Reynolds thanked the DIZ membership for serving as members of the editorial board, as reviewers, and as authors for the journal; he also encouraged future manuscript submissions. Dr. Reynolds led a round of applause to thank Vicki Pearse for a decade of service as editor of *Invertebrate Biology*.

Clay Cook, American Microscopical Society, also addressed the partnership of *Invertebrate Biology* with DIZ, and discussed ways to bring AMS and DIZ together, including subscriptions to the journal, submission of manuscripts to the journal, and co-sponsorship of symposia. In addition, SICB has waived the conference participation fee for AMS.

Rachel Merz presented the SICB Digital Library project, which aims to provide teaching materials in integrative and comparative biology. The first project concerns biomechanics teaching resources and is coordinated by Trish Morse. Dr. Merz requested submission of teaching materials in multiple media formats. Joe Thompson emphasized that all material submitted to the Digital Library project will be peer-reviewed and encouraged participation both as submitters of materials and reviewers of future modules.

Chair Wolcott reminded DIZ members about our efforts to improve the website; please send pictures of your research to DIZ Secretary Bob Thacker.

Chair Wolcott stated that the society-wide ballots in the spring elections will address the issue of creating a permanent diversity committee, which requires a bylaw change. Chair Wolcott also discussed the society's increasing interest in conservation biology, including a meeting on Friday.

Frederick Harrison announced the planning stages for an international congress on invertebrate morphology to be held in 2008. He asked the DIZ membership to participate in generating themes and ideas for the congress.

Chair Wolcott announced a request from AIBS and BioScience for review articles and other manuscript submissions.

The final discussion centered on the timing of the next Invertebrate Auction at SICB. Most attendees favored holding another auction in the next 2 to 3 years. All DIZ members are urged to seek out neat items for the next auction, for to make their own artistic endeavors.

All present were thanked for their attendance.

Submitted by RW Thacker.

Elections: Candidates for DIZ Chair

Please review the biographies of our two candidates for the position of DIZ Chair, Janice Voltzow and Jon Norenburg. We will hold an election for this office later this year.

Janice Voltzow

Current position: Professor, Department of Biology, University of Scranton, Pennsylvania.

Education: 1980, B.S. (Biology), Yale University, New Haven, CT. 1985, Ph.D. (Zoology), Duke University, Durham, NC.

Professional Experience: 1996–present, Assistant, Associate, Professor, University of Scranton. 2001–present, Editor–in–chief, *American Malacological Bulletin*. 2002–present, Project Kaleidoscope Faculty for the 21st Century. 2004–2005, Visiting Scholar, School of Biomedical Sciences, University of Sydney. 2000–2001, President, American Malacological Society. 1987–1996, Assistant, Associate Professor, University of Puerto Rico. 1992, Visiting Scholar, Harvard Forest, Harvard University. 1985–1986, Postdoctoral Fellow, Friday Harbor Laboratories, University of Washington. 1982–1985, Cocos Foundation Trainee in Morphology, Duke University.

SICB Activities: SICB member since 1982; Chairperson, Public Affairs Committee, 1987–1989; Co–organizer and moderator, Forum on Biodiversity, 1988; Representative to AAAS Section X, Societal Impacts of Science and Engineering, 1997–1998; Nominating Committee, Division of Systematic Biology, 1997; Judge for Best Student Paper for DIZ.

Other Memberships: American Association for the Advancement of Science, American Malacological Society, American Microscopical Society, Malacological Society of London, Sigma Xi, Unitas Malacologica.

Research Interests: Functional morphology and evolution of marine molluscs, evolution and development of invertebrates, effects of wind on trees (trees are invertebrates too).

Statement of Goals: This is an especially exciting time to be an invertebrate zoologist. Because our field integrates concepts and techniques from so many fields, we have the potential to contribute to a very broad base of biological knowledge. It is especially important that we use our excitement to nurture and stimulate the next generation of invertebrate zoologists. I look forward to working more closely with them to bring them

more actively into DIZ. The next few years hold some outstanding opportunities for our Division as we look ahead to increased integration with other SICB divisions, the development of educational resources on the web, and the proposed International Congress on Invertebrate Morphology. I believe my experience with the American Malacological Society (the other AMS) will help me be a dynamic leader for DIZ.

Jon Norenburg

Professional Experience: 1992 – present Curator/Research Zoologist, Department of Invertebrate Zoology, National Museum of Natural History; 1988–1992 – Supervisor, Benthic Invertebrates Section, Smithsonian Oceanographic Sorting Center; 1983–1986 – Postdoctoral Research Associate jointly at Department of Anatomy, Medical College of Georgia, and Mt. Desert Island Biological Laboratory, Maine; 1982–1983 – Smithsonian Institution Postdoctoral Fellow, Fort Pierce, FL.

Education: 1974 – B.S. (Hon); 1976 – M.S., Biology, Acadia University, Wolfville, Nova Scotia; 1983 – Ph.D., Zoology/Systematics, Northeastern University, Boston, MA.

Professional Interests: Evolution and diversification of the phylum Nemertea, through use of systematics to integrate and organize studies of comparative morphology (histochemical, histological and ultrastructural), life–history attributes, and molecular sequence data. Current projects include phylum–level phylogenetic survey based on morphology and sequence data from five gene fragments; monographic studies and studies of specialized groups of nemerteans (deep–sea pelagic, mesopsammic, supra–littoral, and commensal); nemertean larval development and morphology.

SICB Activities: Member since 1976, attending all annual meetings except four. Program Officer, Division Invertebrate Zoology; Program Officer, Division of Systematic and Evolutionary Biology; member, SICB Program Advisory Committee; Chair and occasional judge for DIZ and DSEB Best Student Paper Selection Committee; co–organizer and editor for "First Symposium on Biology of the Nemertina," ASZ, Philadelphia, 1983; co–organizer for "Phylogenetic Systematics, Biogeography, and Marine Biodiversity," ASZ, Washington, DC 1995.

Other Memberships/Affiliations: American Association for Zoological Nomenclature (Secretary/Treasurer '90–'92, Secretary '92–'95), American Microscopical Society (Member–at–Large '97–'00; '02–'05), Biological Society of Washington (Councilor twice), International Trust for Zoological Nomenclature (Trustee since 1990), Society of Systematic Biologists, Willi Hennig Society; Associate Editor, Proceedings of the Biological Society of Washington '91–'97; co–organizer Fourth– and Sixth International Conference on Nemertean Biology, 1995 and 2004; Associate Editor, Publications of Seto Marine Biological Laboratory, Japan '04–present.

Statement of Goals: During my terms as Program Officer for DIZ and DSEB, I was a strong advocate of trying the current format of "integrated" or topic–based sessions at the annual meetings. I still am a proponent of this approach and of the Program Officers meeting to schedule sessions, but I would like to see division–based sessions for authors preferring that venue or for presentations that don't fit well into available integrative sessions. I am not running for program officer, but this is one area where I would advocate for regaining division identity. The DIZ is the primary or secondary professional society affiliation for many invertebrate zoologists, especially those of us who have no taxon–based societies to call home. I want to strengthen our identity and standing as a professional home for invertebrate zoologists. We already are exploring ways to increase DIZ involvement with the American Microscopical Society's journal *Invertebrate*

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Biology, which I support. We have failed several times in the past in targeted efforts to increase participation by invertebrate biologists who opt instead for more narrow taxon-based societies. I propose to keep trying to win them over (at least the most interesting people from those societies:–). Promoting excellence in our science is the obvious goal of DIZ and SICB but my primary guide is success in providing a stimulating and nurturing home for our students and young professionals, which cannot be done without drawing the enthusiastic participation of our "established" colleagues. The DIZ does an excellent job of that; it seems healthy and not in need of major initiatives; we can coast or we can try to be even better. I do not have the force of personality to do that by myself. Don't vote for me if you are not ready to participate, at least by being responsive. P.S. I promise not to advocate for adding "evolutionary" to our name.

Division of Neurobiology (DNB): 2005 Spring Newsletter

In this newsletter:

- [Message from the Chair](#)
 - [Message from the Program Officer](#)
 - [Message from the Secretary and Candidates for Election](#)
-

Message from the Chair

Robin L. Cooper

The last three years as chair of DNB have been quite interesting. Input from members reveals that DNB section members continue to struggle with attending the Society for Neuroscience (SfN) meeting and the SICB meeting, however there is a consensus that the venue of the SICB meeting is more conducive for discussion and for exposure to a variety of topics. Lets keep the word going out that the SICB meetings are a great place for students to present their work and have meaningful discussions without the stress and mayhem of the SfN meeting.

The variety of topics with DNB may be seeing some shift towards the functional genomics and broad species comparisons in the years to come. Thus the comparative nature of SICB in general may be very appealing for these individuals. So, look at this as another opportunity to entice your colleagues and their students to become active in DNB and SICB.

Message from the Secretary

Hank Trapido-Rosenthal

The Division of Neurobiology has awarded two awards to graduate student participants in the 2005 New Orleans meeting. Alexandre Dieudonné received an award for his poster "*Neuroanatomy of Antennal Bristle Fields in the Hawk Moth, Manduca sexta*" done at the University of Washington. The award for best platform presentation went to Julie Adams of Bowling Green State University, who described aspects of her dissertation research in a talk entitled "*Foraging in a Complex Chemical Background: DOM from Elevated CO₂ Detritus and Its Impact on Crayfish Orientation to a Food Source.*"

This year we are to hold an election for the Chair of the Division of Neurobiology. The task should be relatively easy: we have one candidate, and he is outstanding. Should he be elected, he will take over his duties from current Chair Dr. Robin Cooper in January 2005; his term will run for two years, until January 2007. His credentials and interests appear below.

ELECTIONS

Candidate for Chair

Paul A. Moore, Ph.D.

Current Position: Professor of Biological Sciences at Bowling Green State University

Education: B.S., Biological Oceanography, University of Michigan, 1986; Ph.D. Marine Biology, Boston University, 1991.

Professional Experience: 2003 – present, Director, University Honors Program. 2003 – present, Full Professor, Department of Biological Sciences, Bowling Green State University. 2001 – present, Director, UMBS Stream Research Facility. 2000 – 2002, Director of the Center for Neuroscience, Mind & Behavior, Bowling Green State University. 1999 – 2003, Associate Professor, Department of Biological Sciences, Bowling Green State University. 1994 – 1999, Assistant Professor, Director of Marine Program, Department of Biological Sciences, Bowling Green State University. 1992 – 1994, Research Associate, Dr. Bruce Bryant, Monell Chemical Senses Center. 1990 – 1992, Post-Doctoral Fellow, Dr. Greg Gerhardt, University of Colorado Health Science Center.

SICB Activities: Dr. Moore presents at the annual meeting but also engages students to present.

Other Memberships: American Society of Limnology and Oceanography, Animal Behaviour, Association of Chemoreception Sciences, International Society of Neuroethology,

Research Interests: Animal behavior, social behavior, the neural basis of aggression, social behavior and decision making, chemoreception, and sensory processing.

Statement of Goals: My goals as chair will be to increase the presence of the neurobiology division within SICB by helping to integrate and make connections from neurobiology to the other divisions. It is also critical to develop and support undergraduate and graduate student presentations at SICB and to help promote the growth of younger scientists.

Division of Systematic and Evolutionary Biology (DSEB): 2005 Spring Newsletter

In this newsletter:

- [Message from the Chair](#)
 - [Message from the Program Officer](#)
 - [Message from the Secretary](#)
 - [Message from the Student Representative](#)
 - [Upcoming Meetings](#)
 - [Elections: Candidates for DSEB Secretary–Elect](#)
-

Message from the Chair

Kenneth M. Halanych

Greetings from DSEB! The meeting in San Diego was a success, with good participation on several fronts. Once again systematic tools figured predominately in many talks across many divisions. Although there was a strong showing at the meeting, we need better participation in the business meeting; among other things, the business meeting serves as a conduit for feedback to the SICB administration. I would like to thank Rena Bryan for volunteering to help out as the student/postdoc representative. Also, Don Swiderski has now officially stepped down from the role of Program Officer (hands down the most time-consuming office). Thanks Don!!! Michele "Nish" Nishiguchi will no doubt be able to fill his shoes as the new PO. Don "punish-me-some-more" Swiderski is now the Chair-elect. Welcome aboard, again.

Symposia are a central aspect of the SICB meetings. If you have ideas for symposia of wide interest with a systematics angle, please contact one of the DSEB officers. Likewise the DSEB officers have been thinking about how to improve or restructure the Phylogenetics for Dummies workshop. Any ideas or input would be welcome.

Three issues that have come up in both the business meeting and across SICB are promoting diversity, a digital library, and conservation biology. If you know individuals (undergraduate on up) who would like to attend SICB's annual meeting and whose presence would help promote diversity, please let either the DSEB officers or someone on the SICB diversity committee know. "Diversity" does not only apply to race/gender issues but also to physically challenged or disabled individuals. SICB is actively trying to become more representative and DSEB should do more than its part to help.

The second item is the digital library. Electronic tools are becoming more and more a part of the classroom, both real and virtual. Patricia Morse and Henry–John Alder have been heading up an initiative to pull digital resources together on a topic–by–topic basis. One of the main goals of this is to make our lives as educators easier. Why reinvent the wheel (or in this case a powerpoint slide) if a colleague already has made a nice digital representation of the point you are trying to make to your undergraduates? If you are like me, just about anybody can make better-looking and more understandable slides. If you have a good series of digital lectures on a particular topic, please consider depositing it to the digital library. The intent is to have the library be a peer-reviewed undertaking to help ensure some quality control.

Third, SICB is actively exploring the membership's interest in conservation biology. Since conservation, biodiversity, and systematics go hand-in-hand, DSEB needs to consider the role we play in promoting this interest. This brings up a broader issue of the foci of our division. It seems to me that many of the systematists who attend DSEB are primarily driven by organismal questions, as opposed to methodological issues or molecular evolution. When the Society of Systematic Biologists decided to meet with the Society for the Study of Evolution, DSEB took a big hit, even though many of us are members of both DSEB/SICB and SSB. I, for one, am not convinced the division really recovered. Are there ways that we can strengthen the division, not only within SICB but in terms of international reputation as well? Should we make a more active effort to coordinate with over societies? Is the scope of DSEB broad enough or should we make a more active effect to develop topics such as phylogeography, biodiversity, and population genetics? Alternatively, should we make more out of the fact that we are the ones actually solving the tree of life and not just talking about how to do it? How do we do this? Your thoughts are welcome.

Message from the past Program Officer, *Don Swiderski*, and current Program Officer, *Michele Nishiguchi*

Thanks and Congratulations:

Congratulations to Maxi Polihronakis, of the University of Connecticut; her presentation "Why are some genitalia asymmetrical?" was unanimously chosen as the division's Best Student Paper. Student presentations continue to be a strength of this division; Maxi's was one several fine papers presented by students in this division. All are to be congratulated for a job well done. Thanks for job well done (and under especially soggy circumstances) also go to the judges of this year's student presentations: Ken Angielczyk, Alexandra Deufel, and Francesco Santini.

Special thanks go to Mark Webster, of the University of Chicago, for a very comprehensive and informative "Phylogenetics for Dummies" presentation on the relationships of phylogeny and ontogeny and the uses of each source of information to test hypotheses about the others.

News from the P.O. meeting:

In an effort to encourage greater participation in the Best Student competitions, students are no longer required to be members of the divisions in which they compete, but they will only be allowed to win twice, lifetime (once for poster, once for talk), regardless of division. In other words, a student winning for best talk in DVM, can compete for best poster, but cannot compete again for best talk in DVM or any other division. DSEB never required students to be members to compete for our award, so we do not need to make a change there. The change we will have to make is to begin awarding separate prizes for talks and posters. We will retain the right to make no award in a category if none of the competing presentations is of the high caliber we would expect of a "best paper."

The society would also like to see us (and other divisions) jazz up the division page a bit. Our webmaster Ruedi Birenheide has done some wonderful things with symposium pages, we should take advantage of his skills to help promote the division. Send suggestions for content, pictures, a logo, links to me or any of the other officers. So far the one idea in the works is to include material from Mark Webster's "Phylogenetics for Dummies" presentation and any previous installments that can be reclaimed from the dustbins.

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As always, the program officers are looking for feedback on the organization of the meeting. Your selection of key words and topics on the abstract submission form are key pieces of information used to organize the sessions; the key words also form the index for the program book. If you feel the important key words or topic categories were missing, please let us know. We would also like to know if it would be useful to include taxon as an additional item on the submittal form, separate from topics and key words.

Symposia:

Division support (financial and otherwise) was amply rewarded by three symposia presented in San Diego: "Terminal Addition" by Nigel Hughes and Dave Jacobs, "WormNet" by Ken Halanych, and "Vertebrate Dentition" by Moya Smith. At Orlando 06, we can look forward to "Zebrafish in Comparative Context" by Jackie Webb. Unfortunately, there were no proposals from within our division addressing issues of particular concern to our members. Given our recent successes, perhaps we can view this as a well deserved break; but we should not rest too much. Now is the time to begin developing symposium ideas for Phoenix 07. Think of a topic you would like to see presented and discussed, and email our current PO, Michele Nishiguchi (nish@nmsu.edu). It need not be a fully formed proposal with a complete list of speakers and titles; for now we just need ideas that we can help you develop into a complete and winning proposal by the August 19 deadline.

Message from the Secretary

Pat Reynolds

Greetings to all. I am pleased to say that we adopted a revised set of bylaws at the DSEB business meeting in San Diego; one amendment to the previously posted proposed changes that was passed at the meeting was to widen the definition of the student rep to include undergraduates. The new bylaws bring our officer positions and terms into line with common SICB practice, which will hopefully help us to avoid confusion and ensure smooth transitions in the future. The new bylaws also incorporate the new society-wide policy on divisional best paper and poster awards (see PO message). You can now view the new bylaws on the SICB web site. Many thanks to all who attended the meeting and contributed to the discussion.

Minutes of the 2005 DSEB Business Meeting:

Chair Ken Halanych convened the meeting on Jan. 6th at 5:15 pm, 12 members being present (establishing a quorum).

SICB webmaster Ruedi Birenheide and Trish Morse presented the initiative to place a digital library of educational resources on the SICB web site. The first of what is planned to be many modules, on biomechanics, is currently up and running, and further submissions are welcome. Trish explained that these modules need not be original, may be attributed, and will be peer-reviewed.

Program Officer Don Swiderski reported on a number of programming issues. He explained the new policy on best student paper and poster awards. He also discussed issues involving keywords for abstracts, specifically the use of taxa as keywords, and the use of keywords for indexing in the program and organizing the sessions. He asked that anyone with concerns on this issue to email SICB Program Officer Cate Loudon or himself. He reported on location plans for the upcoming meetings (Orlando 2006 and Phoenix 2007), availability of funds

for a divisional social, and the options for the "Phylogenetics for Dummies" workshop in the future. He invited members to contact him with any concerns arising from the session programming, and welcomed Michelle Nishiguchi as the new program officer.

A visit from the Executive Committee (EC) of SICB included comments from President John Wingfield, who reported on two present concerns: first, that NSF funding for symposia will likely not be maintained at past levels, and secondly, that the journal of the society, *Integrative and Comparative Biology*, is seeing institutional subscriptions dropping, and the EC is considering alternative publishing options, specifically to find professional help to enhance the journal's indexing and marketing. He commented that symposia and student support remained the highest society priorities.

Secretary Pat Reynolds presented the motion to adopt proposed revisions to the bylaws. Ken Halanych proposed an amendment to strike reference to "Graduate" from all mention of "Student/ Postdoc Representative," thereby opening the position to undergraduates as well. The amendment was seconded by Joan Ferraris, and after discussion passed unanimously. The motion to accept the revised bylaws then passed unanimously.

Rich Mooi proposed that the bylaws governing election of the Student Representative be temporarily suspended, allowing the immediate appointment of a Student Representative for the division, rather than enduring a year-long delay to elect someone to the position. This was seconded by Ken Halanych. After discussion, which included comment on the value of having a student representative in place immediately, the motion passed unanimously.

Respectfully submitted,

Pat Reynolds, Secretary

Message from the Student Representative

Rena Bryan

Greetings and I would like to share with the division the orientations and workshops in store for all student and post-doc members of SICB for the 2006 meeting in Orlando, Florida.

On the first day of meetings there will be the 1st Timers Orientation, with discussion of topics on how to get the most out of your SICB meeting including: how to find relevant talks/posters, how to find everyone at the meetings and socializing, how to approach a "big guy or gal," how to enter or leave a room, how to plan your meeting, and how to get involved in SICB or attend business meetings.

The Student/Postdoctoral Affairs Committee (SPDAC) Free Lunch will be the second day of meetings, which is a time for all students and post-docs to get to know other student and post-doc members. This is also when the annual SPDAC meeting will be held.

On the last evening of meetings, two workshops for students have been planned by SPDAC to be held one after another at 6–7 pm and 7–8 pm. The first will be aimed at undergraduates with plans for graduate school

and current graduate students, while the second will be aimed at graduate students looking to land a post-doc/academic job and post-docs. The detailed agendas for these workshops are as follows:

Workshop #1: "Optimizing Your Graduate School Experience" (6–7 pm):

- i. Dealing with funding your graduate studies (even after TA–ships expire)
- ii. Finding a good mentor (COS, societies, web listserves)
- iii. Getting funding as a graduate student
- iv. Getting to meetings and making future connections (networking)
- v. Building your CV to impress future hirers

Workshop #2: "Strategies for Landing an Academic Job/Post–doc" (7–8 pm):

- i. The differences in the requirements for RO1, comprehensive, and undergraduate liberal arts college resumes.
- ii. New and senior–faculty SICB members from each of 3 different types of academic institutions present basic expectations of research/teaching/service at their institution.
- iii. Follow–up questions from the audience

I am really pleased to be the new student representative and I want to wish everyone a very exciting and productive year.

Meetings of Interest to the Division

Evolution 2005 will be a jointly sponsored conference of the Society for the Study of Evolution, the Society of Systematic Biologists, and the American Society of Naturalists. It will be held June 10–14, 2005 at the University of Alaska Fairbanks, and hosted by the Institute of Arctic Biology and the University of Alaska Museum of the North. Further information at: <http://uaf-db.uaf.edu/evolution05/>

Elections: Candidates for Secretary–elect (term: 01/2006 to 01/2007; assumes position of Secretary 01/2007–01/2010)

Francesco Santini

Current Position: Marie Curie Research Fellow, Muséum National d'Histoire Naturelle, Paris.

Education: 1997 Laurea degree in Biological Sciences, University of Pisa, Italy. 2003 Ph.D. in Zoology, University of Toronto, Canada.

Professional Experience: May 2003–present, Marie Curie Research Fellow, Museum National d'Histoire Naturelle, Paris.

SICB Activities: Member since 1999; presentations at 2000, 2001, 2002, 2003, 2004, 2005 Annual Meetings; co–organizer of the symposium on "Patterns and processes in the evolution of fishes" held during the 2003 annual meeting in Toronto and sponsored by SICB, DSEB, DVM, DEE, DEDB, and the Paleontological Society; co–organizer of the "Phylogenetics for Dummies" workshop held during the 2003 annual meeting.

Other Memberships: Society of Systematic Biology; Society for Conservation Biology; European Society for Evolutionary Biology; Systematic Association; Society for the Study of Evolution; National Association of Science Writers.

Research Interests: Phylogenetic relationships of acanthomorph (spiny–rayed) fishes, with particular emphasis on pufferfish and allies (Tetraodontiformes); evolution of key morphological structures in fishes; problems associated the use of model organisms in studies of evolutionary biology and genomics; theoretical aspects of the use of incomplete fossil taxa in phylogenetic analyses.

Goals Statement: Systematics has a central role in much of the research performed by SICB members, and although many presentations at the society's meetings contain phylogenies, DSEB divisional events are attended by very few people. As DSEB secretary I would work with the other divisional officers to try to encourage more DSEB members from attending the divisional meetings. I would also work towards the goal of increasing the membership of the division, both through the traditional conference activities such as symposia and workshops, and through new outreach events.

Marta J. deMaintenon

Current position: Associate Professor, Marine Science, University of Hawaii at Hilo; 2004–present

Education: BS 1983: Biology (Marine Biology), Millersville University of Pennsylvania. MS 1990: Marine Biology and Fisheries, University of Miami Rosenstiel School of Marine and Atmospheric Science. PhD 1996: Integrative Biology, University of California, Berkeley.

Professional Experience: Assistant Professor of Marine Science, University of Hawaii at Hilo, 1999–2004. Post doc, Invertebrates, American Museum of Natural History, 1998–1999. Visiting Postdoctoral Curator, Invertebrate Zoology, Santa Barbara Museum of Natural History, 1997–1998.

SICB Activities: Member 1996–present; presentations/abstracts in 1999, 2000, '01, '03, '04, '05; Co–organized symposium on Integrative Approaches to Biogeography, 2002; Judge, Best Student Paper Award (DIZ), 2004, 2005; DSEB nominating committee 2004.

Other Memberships: American Malacological Society, American Microscopical Society, Paleontological Society, Sigma Xi, Society for the Study of Evolution, Society of Systematic Biologists, Willi Hennig Society

Research Interests: Systematics and evolution of gastropod molluscs, including biogeography/phylogeography and origin of novel character complexes

Goals Statement: SICB is one of the few societies for which I attend the meetings every year if possible, regardless of where they are located, because it is a unique society in terms of its breadth and inclusiveness, and is incredibly supportive of students. I would be happy to further support DSEB by serving as secretary. DSEB often finds itself in an odd position as being at the root of 'comparative and integrative biology', but the division itself often does not get much attention. My primary goal is to support and promote the division and its activities. As secretary, I will seek to promote DSEB by keeping members and potential new members informed and publicizing activities of the division to the SICB membership, as well as promoting outreach to potentially interested systematists and budding systematists outside SICB.

Candidates for Program Officer–elect (term: 01/2006 to 01/2007; assumes position of Program Officer 01/2007–01/2009):

Rachel Collin

Current Position: 2005–present: Adjunct Professor, Department of Biology, McGill University, Canada; 2002–present: Director of the Bocas Research Station, Smithsonian Tropical Research Institute, Panama; 2002–present: Staff Scientist, Smithsonian Tropical Research Institute, Panama.

Education: 1996–2002: Ph.D. University of Chicago, Committee on Evolutionary Biology. Thesis: Evolution of mode of development in *Crepidula* (Gastropoda: Calyptraeidae): Causes and consequences. Advisor: Barry Chernoff. 1993–1996: M.Sc. Department of Zoology, University of Washington. Thesis: Comparative Biology and Evolution of Gastropod Development. Advisor: Richard Strathmann. 1989–1993: Sc.B. Aquatic Biology, Brown University; Magna cum Laude and departmental honors. Undergraduate Honors Thesis: The size advantage hypothesis as a model for sex change in the common slipper shell (*Crepidula fornicata*). Advisor: Steve Gaines.

SICB Activities: 2003: SICB DSEB best student paper judge; 2002–present: SICB Division of Systematic Biology and Evolution nominating committee; 2002: SICB 2002 Symposium co–organizer: Integrative approaches to biogeography; 2000–2002: SICB Student and Post–Doc planning committee; 2000–2002: SICB Division of Systematic Biology and Evolution student representative; 2000: SICB meeting session chair.

Other Memberships: Society of Integrative and Comparative Biology (SICB), Society of Systematic Biologists, Society for the Study of Evolution, American Malacological Society (AMS), International Society of Invertebrate Reproduction and Development (ISIRD), American Microscopical Society.

Research Interests: Life history evolution in marine invertebrates, systematics, evolution of molluscs, conservation, functional morphology, paleobiology.

Anne M. Maglia

Current Position: Assistant Professor, University of Missouri–Rolla (since 2002)

Education: B.S., Zoology, Ohio University, 1992; M.S., Biological Sciences, East Tennessee State University, 1994; Ph.D., Ecology and Evolutionary Biology, University of Kansas, 2000.

Professional Experience: Postdoctoral Associate, 2000–2002, Natural History Museum and Biodiversity Research Center, and Division of Biological Sciences, University of Kansas.

SICB Activities: Co–organizer and presenter (with D. Swiderski) of DSEB workshops "Phylogenetics for Dummies: Picking a Tree from the Forest?" and "Phylogenetics for Dummies: Optimizing Characters on Existing Hypotheses of Relationships"; Chair for DSEB paper sessions; Judge for DSEB Student Paper Competitions; DSEB Program Officer 2000–2001.

Other Memberships: Society for the Study of Amphibians and Reptiles, International Society for Computational Biology, American Society of Ichthyologists and Herpetologists, The Herpetologists? League, Midsouth Computational Biology and Bioinformatics Society, Phi Sigma, Sigma Xi

Research Interests: My research focuses on the evolution of amphibians, with specific interests in phylogenetic relationships within and among groups, the role of development in generating anatomical diversity, and the evolution of life history traits. In addition, much of my research also focuses on the development of computational methods for visualizing and analyzing biological data, including the application of data mining techniques to understanding character non–independence, the development of a web–accessible library of 3D visualizations of anatomy, and the use of distributed databases and genetic algorithms to monitor and model biodiversity.

Goals Statement: My goal as DSEB program officer would be to continue to enhance the reputation and visibility of our division both within SICB and among the scientific community. Because accurate phylogenies based on sound methodologies are crucial to all facets of integrative and comparative biology, DSEB is unique in that we characterize the foundation for much of the research in other SICB divisions. Our membership may seem small, but DSEB is a secondary affiliation for many SICB members, and we represent a significant part of much of the research in the society. With this role comes the responsibility of demonstrating the importance and utility of systematic methodologies to strengthening comparative research. I would continue our divisional efforts to develop symposia and workshops that attract participants, sponsorship, and audiences from other SICB divisions and scientific societies, and I would focus on promoting the success and participation of the student members of our division.

Division of Vertebrate Morphology (DVM): 2005 Spring Newsletter

In this newsletter:

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 - [Message from the Secretary](#)
 - [Elections: Candidates for DVM Program Officer and Secretary](#)
-

Message from the Chair

Beth Brainerd



On behalf of DVM, I would like to thank Frank Fish for his service as DVM Chair for the past two years. Now he will have more time for reading and soaking in the bathtub.

Despite unexpectedly poor weather, the San Diego meeting was great. The poster sessions were a particular highlight — the unopposed afternoon time combined with wide (but still not quite wide enough) spaces between the rows made these poster sessions particularly effective. In the past, DVM has tended to favor oral presentations over posters, but this seems to be changing as members have come to appreciate the small-group interactions in front of posters. As the number of concurrent sessions has increased, posters are now a better way to be sure that one's work is seen by colleagues with the most relevant interests (and one's poster is never scheduled for 8 AM on the last day of the meeting!).

As always, the contributions from graduate students and undergraduates were highlights of the meeting in San Diego. The D. Dwight Davis Prize for best student paper was awarded to Kai-Jung Chi from Duke University for her oral presentation, "Scaling of foot contact area and its mechanical implications for mammals of different foot postures," with Honorable Mention going to Andrew Carroll from UC Davis for "Force transmission during suction feeding in centrarchid fish." The Best Student Poster Prize was awarded to Jill Olin from Hofstra University for her poster "Histological comparison of the retinal structure of deep-water and epipelagic sharks." Congratulations to these winners and thanks to our prize committee: David Carrier, Steve Deban, Nate Kley, Callum Ross, Adam Summers and Roshna Wunderlich.

SICB 2006 will be held in Orlando Florida. The SICB Call for Opening Plenary Speaker Proposals for the Orlando 2006 meeting will be announced in April 2005. In the past there has been one opening speaker, but in San Diego the opening session was a mini-symposium with five speakers on the "Neuron Doctrine." I would like to coordinate a potential proposal for Orlando 2006 from DVM, perhaps in collaboration with other divisions. Please contact me with ideas for the opening session.

The venue for 2007 was undecided as of the meeting in San Diego, but now has been set as Phoenix Arizona (see Message from the SICB President). The Call for Symposium Proposals for Phoenix 2007 will go out in April 2005, with an August 2005 deadline. Due to budget cuts, support from NSF for symposia may be less than in the recent past. I encourage potential symposium organizers to think creatively about funding, perhaps requesting funding from private companies, such as the exhibitors at SICB.

At the DVM business meeting in San Diego, there was overwhelming support for John Bertram's suggestion that our bylaws should be amended to permit the DVM Program Officer to serve two terms. This amendment has been posted for comment, and you will be asked to vote on it soon (see Message from the Secretary, below). Unfortunately the timing is such that we must vote on this change at the same time as we vote for Program Officer Elect; therefore it is not possible to nominate John Bertram for a second term at this time. Thanks to John for his leadership in suggesting this useful change to our bylaws.

Finally, thanks to our 2005 DVM Nominating Committee -- Jeanette Wyneken, Jim Stewart and Bret Tobalske -- for their important work in nominating candidates for Program Officer Elect and Secretary Elect, and thanks also to the nominees for agreeing to serve, if elected. The spirit of volunteerism in DVM is ever strong, demonstrating our appreciation for the roles of DVM in SICB and in fostering research and student training in vertebrate morphology.

Message from the Program Officer

John Bertram

Another year is progressing and it's time to start thinking about preparations for abstract submission for the Orlando meeting. As a recent resident of Florida, I can attest to some of the advantages of the area in early January. Some may wonder about the compatibility of a scientific organization like ours and the theme park culture of Orlando. A large portion of Orlando's service industry is set up to make conventions run well, and they do an admirable job of it. So I am looking forward to great facilities for the meeting. The proximity of a variety of attractions makes it a great place to combine our annual 'work' trip with a memorable family adventure (that will garner points for much time to come). Apart from the city and organized attractions, central Florida has abundant and remarkably available wildlife. I recommend you consider planning some excursions to take advantage of that opportunity, as well.

The annual meeting is shaping up to be another great one. In years past problems associated with the poster sessions have been solved, and I'll work to maintain the afternoon format where discussion at posters are liberally mixed with the general socializing that is so important to our Division. We had difficulties with room size in San Diego, but we now have attendance data that will fortify my arguments in our favor when these things are decided in Sept. We also have two impressive symposia generated by members from our Division. We have sponsored "Biomechanics and Neuromuscular Control" organized by Kiisa Nishikawa and Andy Biewener. For anyone interested in movement this will be an important symposium because it will explore the interaction between direct control strategies and the expressed outcome, which can be related in surprising ways. The Division is also sponsoring "Zebrafish in Comparative Context" organized by Jackie Webb and Tom Schilling. You might think that a focus on a single species is a bit limiting for a comparative context, but the objective of the symposium is actually to bring together the diverse species of scientists (or is it phyla?) using this model that plays an important role in very different research questions and approaches.

Other things to keep in mind:

Great meetings and interesting symposia depend on your creativity. If you have a good idea for a symposium you would like to see, it is necessary to start organizing early. The 2007 meeting will be in Phoenix and it is time to start working on symposia for that. A link to the meeting page can be found on the SICB website (<http://www.sicb.org/meetings/2007/index.php3>) and deadline for symposia proposals for that meeting is Aug. 19.

A final thought for us to consider over the coming months and discuss in Orlando – the Society for Experimental Biology, a comparable group to ours (if even a little broader), meets each year and attracts participants from all over Europe. Previously the society has only met in Britain, but apparently it has recently been taken over by some irreverent young hot-heads who have arranged to experiment with a change of venue – this year it's in Barcelona. This particular experiment has been received so well that there is a murmur that even more audacious changes might be considered. One that has unofficially been floated to me is the possibility of a joint SICB–SEB meeting. Although there are numerous issues to consider with a proposal like this (timing and travel costs are two), having enjoyed both meetings immensely I find this an intriguing idea. Certainly it's worth considering over the coming months so we can chat while standing in line for libations at the poster sessions in Orlando. Now, would Bermuda or the Azores be considered middle ground? Cheers and have a great summer.

Message from the Secretary

Audrone Biknevicus

1. Minutes from SICB 2005 (submitted by A.R. Biknevicus)



SICB newsletter Spring 2005

Malcom Gordon (UCLA) drew attention to the 2005 International Union of Physiological Science Congress to be held 31 March – 5 April 2005 and the pre-Congress symposium "Biophysical and biomechanical adaptation and bioengineering" which will cover four major topics: (1) Animal Locomotion, (2) Muscle, (3) Internal Flow and (4) Materials. For information: <http://www.iups2005.org/>

Bill Zamer (National Science Foundation) provided a brief report for NSF. First, he announced that the Division of Integrative Biology and Neuroscience has been reorganized and that DVM members should take note of the new Division of Integrative Organismal Biology (IOB) which contains four thematic clusters (Behavioral systems; Developmental systems; Environmental and structural systems; Functional and regulatory systems; see divisional website for more information: <http://www.nsf.gov/bio/iob/start.htm>). Applicants should identify one or two program officers within the division to get recommendations on the most appropriate cluster for your work. Second, Bill noted that NSF has received a ~5% budget cut, resulting in an expected funding rate in the "low teens" (11–15%). Nevertheless, he encourages DVM members to continue to submit proposals as NSF is trying to maintain research project funding. Hardest hit are programs such as symposia support, with funding in these areas focused on serving new scientists (graduate students, postdocs).

Steven Vogel (Duke University) reported on SICB's Digital Library. He noted that AAAS received a NSF grant for the development of the Bioscience Engineering Network (BEN) to form a set of educational websites containing materials primarily for undergraduate education. SICB is supporting the development of several areas, including biomechanics and environmental endocrinology. Steve invited the DVM membership to submit contributions for biomechanics (text should be in RTF or rich-text format; movies and sound may be included). Submitted materials will be peer-reviewed. Submissions go directly to the website (<http://sicb.org/dl/biomechanics.php3>). Direct inquiries and miscellanxieties to the co-editors: Rachel Merz (rmerz1@swarthmore.edu) or Steve Vogel (svogel@duke.edu). [For more details, see item 3 below]

DVM Program Officer John Bertram (University of Calgary) requested feedback about the San Diego meetings to help in improving future meetings. Although the symposia for the 2006 Orlando meetings are set, there is still interest in more symposia for 2006 in Arizona. Finally, John encouraged DVM members to volunteer to serve as session chairs.

SICB Executive Committee stopped by for a brief visit. John Wingfield, SICB President, noted two items of concern for the society. One was the reduction for symposium support by NSF. Second, he noted the decrease in institutional subscriptions (see below).

Melina Hale (University of Chicago) represented the *Integrative and Comparative Biology* editorial board. She noted that the board was recently reinstated because of concern over institutional subscriptions. Many journals are published by large publishers that bundle journals for sale to institutions; however, *Integrative and Comparative Biology* is independently published by SICB and thus is an easy target for cuts when institutional budgets themselves are cut. In order to increase the journal's visibility, SICB has been soliciting help with marketing and is courting several presses to take on the management of the journal (although SICB will retain control on content). The board is also considering changes to the journal's format to supplement symposia publication.

Jeannette Wyneken (Florida Atlantic University) summarized the success of the 7th International Congress of Vertebrate Morphology that was held in 2004: 488 participants of which 209 were international, representing 32 countries, and 17 symposia. The ICVM–8 will be held in July 2007 in Paris.

Bret Tobalske (University of Portland) reported for the Nominating Committee. This spring both DVM Secretary and DVM Program Officer positions will have elections. The Secretary's term (2 year) is renewable whereas, under current DVM bylaws, the Program Officer's term (2 year) is nonrenewable. John Bertram noted that the first year as PO has a large learning curve so that peak effectiveness only occurs in year 2 and that he believed that an additional year of service would not be onerous and actually would be beneficial to the division. Dave Carrier agreed. Frank Fish offered a counter proposal to retain the PO term as 2 years but to

make it renewable (so to retain its offset with the Chair's terms). A proposal to alter the DVM by-laws was advanced to change Article 8 as follows, from "The Program Officer shall arrange for the programs of the Division. This person shall serve two years, asynchronous with the Chair-Elect, **without eligibility for re-election**" to "The Program Officer shall arrange for the programs of the Division. This person shall serve two years, asynchronous with the Chair-Elect, and **shall be eligible for one additional term**". This proposal was met with unanimous approval by the membership attending the meeting. This proposal will be sent to the entire DVM membership for a web-based discussion followed by an electronic vote.

The item of business was the passing of the gavel from Frank Fish to the new DVM chair, Beth Brainerd. The new chair-elect is Kurt Schwenk (University of Connecticut).

2. 2005 SICB-DVM Student Awards

Once again, the DVM students provided some of the finest contributions at the national meetings. The following students have been recognized for their especially fine studies and presentations.

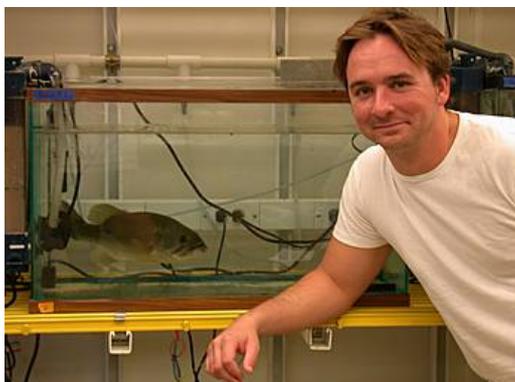
Davis Award

Kai-Jung Chi



Davis Award – Honorable Mention

Andrew M. Carroll



Poster Award

Jill A. Olin



Davis Award winner Kai-Jung Chi works in the Department of Biology at Duke University (advisor, V. Louise Roth). Her winning presentation ("Scaling of foot contact area and its mechanical implications for mammals of different foot postures") highlighted some of Kai-Jung's interests in comparative biomechanics and physiology, and her work was supported by a NSF Doctoral Dissertation Improvement Grant and numerous Grants-in-Aid of Research.

Andrew M. Carroll's fine presentation ("Force transmission during suction feeding in centrarchid fishes") received an Honorable Mention. Andy's area of research is musculoskeletal function during suction feeding. He is shown above with a largemouth bass (*Micropterus salmoides*, Centrarchidae) in his advisor Peter Wainwright's lab (Section of Evolution and Ecology at UC Davis).

Jill A. Olin won the DVM poster award for her poster ("Histological comparison of the retinal structure of deep-water and epipelagic sharks"). Jill works on elasmobranch sensory biology with her advisor John F. Morrisey (Department of Biology, Hofstra University). She is pictured above with the deep-water gulper shark (*Centrophorus cf. uyato*) featured in her research; this specimen was collected on a long-line from the Cayman Trench, Jamaica, West Indies at approximately 800m depth just offshore from the Hofstra University Marine Laboratory.

Please extend a hearty congratulation to all our student awardees!

3. SICB Digital Library (submitted by Steven Vogel)

A website for teaching material is now on-line for submissions, perusals, and downloadings:
<http://sicb.org/dl/biomechanics.php3>

Sponsorship was provided by SICB via AAAS via NSF. This is the first of a series of such sites that will provide peer-reviewed instructional materials in integrative and comparative biology for use in undergraduate education. Collectively, they'll form the SICB Digital Library, part of the Bioscience Education Network (BEN—<http://www.biosciencednet.org/portal/>). What will the site offer; what might you submit?

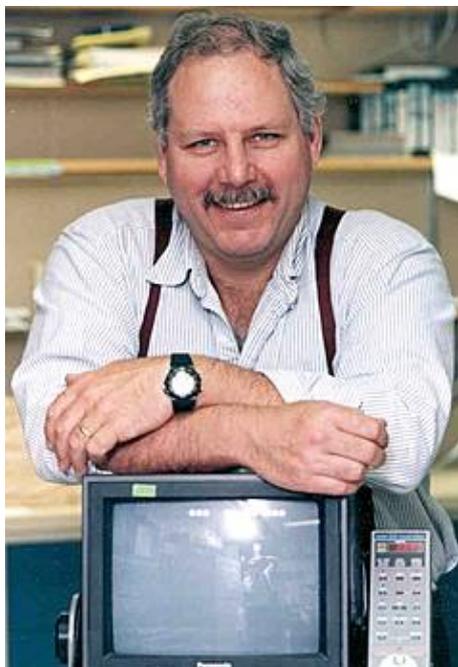
- Syllabi and descriptions of existing, successful courses in biomechanics
- Problems for homework assignments and examinations (with answers available in response to specific requests)
- Inquiry-based learning activities for classroom, laboratory, and home—both hardware-based and computer-based
- Classroom demonstrations, with instructions for construction and sources of material
- Annotated lists of useful written material, websites, and software—for specific course use, as well as for background and supplementary reading.
- Visual material in digital form, including both still and video images, for use in lectures and elsewhere
- Background modules for relevant physical and mathematical tools, usable as stand-alone documents to distribute to students.
- Potential individual or class projects, with what references can be provided as background and starting points.
- PowerPoint presentations.
- Both specific instructions and general guidance for making and using devices with wider applications in biomechanics teaching.

Teaching Biomechanics using the SICB Digital Library provides a new stream of material to structure your course and a way to ensure wide outflow of your own efflux.

4. SICB-DVM ELECTIONS FOR DIVISIONAL PROGRAM OFFICER

(Candidates listed alphabetically) SICB–DVM will be holding elections for a new divisional program officer this spring. Below are our two candidates (Steve Reilly and Jeff Walker). You will be contacted in a future e–mail from the society office to submit your vote.

Stephen M. Reilly, PhD



Current Position. Associate Professor, Dept. of Biological Sciences, Ohio University, Athens, OH.
<http://www.biosci.ohiou.edu/faculty/reilly/>

Education.

Ph.D. 1986. Southern Illinois University.

M.A. 1980. San Francisco State University.

B.A. 1977. Southern Illinois University.

Professional Experience.

1986 – 1991. *NSF Post–doctoral Fellow*, University of California Irvine.

1990. *Invited Instructor*, National Science Foundation workshop Morphometrics in Systematic Biology.

1990. *Invited Participant*, National Research Council workshop Declining Amphibian Populations.

1980 to present. *Research Associate*, Departments of Herpetology, California Academy of Sciences and Museum of Natural History, University of Kansas.

1980. *Chief Herpetologist*, Steinhart Aquarium, California Academy of Sciences, San Francisco.

1978 – 1980. *Museum Curator*, Museum of Human Evolution, San Francisco State University.

Awards and Honors. Phi Beta Kappa, 1977; Phi Kappa Phi, 1984; Richard E. Blackwelder Award in Zoology, 1984; Sigma Xi, 1987; OU Honors Tutorial College "Tutor of the Year" Award, 1998.

SICB Activities. Chair, contributed paper sessions, DVM (10 times); D. Dwight Davis Award Committee (member twice, chair once); ASZ Symposium co-organizer (Ecological Morphology), 1991; Nominated for DVM Program Officer, 1998. Chair, DVM Nominating Committee, 1999; Nominated for DVM Chair, 2002; Missed 2 meetings since 1986.

Research Interests. Functional morphology and the evolution of vertebrate feeding and locomotion. Experimental and morphometric approaches to the analysis of form and function in organisms. Life history evolution and patterns of heterochrony in amphibians.

Publications. 63 refereed publications

Five most recent publications:

Willey, J.S., Biknevičius, A.R., Reilly, S.M. and K.D. Earls. 2004. The tale of the tail: limb function and locomotor mechanics in *Alligator mississippiensis*. *J. Exp. Biol.* 207:553–563.

Reilly, S.M. and R. W. Blob. 2003. Motor control of locomotor hindlimb posture in the American alligator (*Alligator mississippiensis*). *Journal of Experimental Biology* 206: 4341–4351.

Parchman, A.J. Reilly, S. M. and A.R. Biknevičius. 2003. Whole-body mechanics and gaits in the gray short-tailed opossum, *Monodelphis domestica*: integrating patterns of locomotion in a semi-erect mammal. *J. Exp. Biol.* 206:1379–1388.

Reilly, S.M. and T.D. White. 2003. Hypaxial motor patterns and the function of epipubic bones in primitive mammals. *Science* 299:400–403.

Larson, P. M. and S.M. Reilly. 2003. Functional morphology of feeding and gill irrigation in the anuran tadpole: Electromyography and muscle function in larval *Rana catesbeiana*. *Journal of Morphology.* 255:202–214.

Other Memberships. American Society of Ichthyologists and Herpetologists, Herpetologists League, Society for the Study of Amphibians and Reptiles, World Congress of Herpetology, International Congress of Vertebrate Morphology.

Goals as Program Officer. As the electronic management of contributed talks and posters evolves it should be easier to schedule coherent sessions and control overlap between sessions, divisions, and symposia. As every outgoing program officer says, it is a difficult task, but I think I can squeeze a little more overlap and conflict out of the program for DVM members. Also I want to get a better grip on how the keyword system works and try to both streamline/ improve it and explain to contributors (and add to the web forms) how it works in determining how the program is scheduled. Finally, I plan to take a proactive approach to developing more DVM symposia in light of NSF effectively cutting off funding for them. Perhaps we can encourage organizers and contributors that are already attending the meetings to plan and contribute to new symposia. Following the lead of John Bertram, I would probably serve for two years if our bylaws are amended to allow this.

Jeffrey A. Walker, PhD



Current Position. Assistant Professor of Biology, University of Southern Maine (since 2000)
<http://www.usm.maine.edu/~walker/>

Education.

Ph.D. 1995, Anatomical Sciences, Stony Brook.

B.A. 1988, Geology with Honors, University of Pennsylvania;

Professional Experience.

1995–2000, Postdoctoral fellowships, Field Museum of Natural History, Chicago.

Awards and Honors. NSF Postdoctoral Research Fellowship.

SICB Activities. D. Dwight Davis Award judge (2000, 2002–2003); Chair/Co–chair in a locomotion contributed session (every year).

Research Interests. Integrative functional morphology, ecology, and evolution. Science methodology, including statistics and modeling.

Publications. 26 refereed publications

Five most recent publications:

Walker, J. A. 2004. **Kinematics and performance of median and paired fins as control surfaces.** IEEE Journal of Oceanic Engineering 29, 572–584.

Westneat, M. W., Thorsen, D. H., Walker, J. A. and Hale, M. E. 2004. **Structure, function and neural control of pectoral fins in fishes.** IEEE Journal of Ocean Engineering 29, 674–683.

Walker, J. A. 2004. **Dynamics of pectoral fin rowing in a fish with an extreme rowing stroke: the threespine stickleback (*Gasterosteus aculeatus*).** Journal of Experimental Biology, 207: 1925–1939.

*Ghalambor, C. K., D. N. Reznick, and J. A. Walker. 2004. Constraints on adaptive evolution: the functional trade-off between reproduction and fast start escape performance in the guppy (*Poecilia reticulata*). American Naturalist, 164:38–50.*

Ghalambor, C. K., J. A. Walker, and D. N. Reznick. 2003. Multi-trait selection, adaptation, and constraints on the evolution of burst swimming performance. Integrative and Comparative Biology, 43:431–438.

Goals as Program Officer. I would like to continue the trend of developing highly integrative contributed sessions and symposia that allow scientists from diverse fields but overlapping interests to learn from each other. Similarly, I would also like to continue the recent practice of scheduling poster sessions that do not compete with either afternoon talks or evening social schedules. Finally, I will schedule senior graduate students and especially postdocs into the better-attended sessions occurring earlier in the week in order to give them and their research increased exposure.

5. SICB–DVM ELECTIONS FOR DIVISIONAL SECRETARY

(Candidates listed alphabetically) SICB–DVM will be holding elections for a new divisional secretary this spring. Below are our two candidates (Rick Blob and Gary Gillis). You will be contacted in a future e-mail from the society office to submit your vote.

Rick Blob, PhD



Current Position. Assistant Professor, Department of Biological Sciences, Clemson University, Clemson, SC. <http://people.clemson.edu/~rblob/>

Education.

Ph.D. 1998: University of Chicago (Evolutionary Biology)

B.A. 1992: University of Pennsylvania (Biology, Individualized Studies “Paleobiology”)

Professional Experience.

2002–present: Assistant Professor, Department of Biological Sciences, Clemson University (courses taught include Vertebrate Biology, Comparative Vertebrate Morphology, Animal Biomechanics, Vertebrate Paleobiology)

1999–2001: NIH Postdoctoral Fellow, Field Museum of Natural History (Zoology)

1998–1999: Senior Assistant Collections Manager, Field Museum of Natural History (Fossil Mammals)

Awards and Honors. 1992: Henry Darwin Rogers Award in Geology, University of Pennsylvania; 1992: Phi Beta Kappa; 1992: NSF Predoctoral Fellowship; 1997: Society of Vertebrate Paleontology Predoctoral Fellowship; 1998: Best Student Poster, SICB–DVM; 2004: Outstanding Young Researcher, Sigma Xi Clemson Chapter

SICB Activities. 2001, DVM nominating committee; 2002, DVM Davis Award judge; 2003, Chair, DVM Davis Award committee

Research Interests. Evolutionary morphology and biomechanics of the vertebrate musculoskeletal system, with a primary focus on locomotion in reptiles, amphibians, and fishes. Other areas of interest include the evolution of bone mechanical properties, evolution of aquatic/terrestrial habitat transitions, fish and reptile feeding, ontogeny of musculoskeletal function, and biomechanical modeling of functional capabilities in fossil taxa.

Publications. 17 refereed publications

Five most recent publications:

Willey, J. S. and R. W. Blob. 2004. Tail kinematics of juvenile common snapping turtles during aquatic walking. *Journal of Herpetology* 38(3):360–369.

Schoenfuss, H. L., M. L. Julius, and R. W. Blob. 2004. Colonization of a recent, volcanically formed freshwater habitat: an example of primary succession. *Ichthyol. Explor. Freshwaters* 15(1):83–90.

Reilly, S. M. and R. W. Blob 2003. Motor control of locomotor hindlimb posture in the American alligator (*Alligator mississippiensis*). *Journal of Experimental Biology* 206:4327–4340.

Schoenfuss, H. L. and R. W. Blob. 2003. Kinematics of waterfall climbing in Hawaiian freshwater fishes (Gobiidae): vertical propulsion at the aquatic–terrestrial interface. *J. Zool. Lond.* 261:191–205.

Westneat, M. W., O. Betz R. W. Blob, K. Fezzaa, W. J. Cooper, W. Lee. 2003. Tracheal respiration in insects visualized with synchrotron X–ray imaging. *Science* 299:558–560.

Other Memberships. American Society of Ichthyologists and Herpetologists, Herpetological Association of Africa, Herpetologists' League, International Society of Vertebrate Morphology, Sigma Xi, Society for Experimental Biology, Society for the Study of Amphibians and Reptiles, Society of Systematic Biologists, Society of Vertebrate Paleontology

Goals as Secretary. As DVM Secretary, I will ensure that communication between the SICB office, DVM officers, and DVM members continues to be timely and informative. I also think that DVM can work to advance some important goals. As resources for basic research support become increasingly limited, it is

critical that we act as advocates for the field of Vertebrate Morphology. This includes promoting the importance of research and teaching in morphology at our home institutions, and in broader venues. It is also essential for DVM to continue its excellent tradition of fostering student participation and development. These efforts can range from providing constructive feedback for student presentations, to continuing existing regional meetings (and initiating new ones!) as a forum for students to present research and get to know each other. Even though vertebrate morphology is a more exciting field than ever, we face several challenges if we are going to keep our future strong. As Secretary, I will be happy to discuss and circulate ideas for how we can meet those challenges and work together to advance knowledge and appreciation for vertebrate morphology.

Gary Gillis, PhD



Current Position. Assistant Professor of Biology, Mount Holyoke College, South Hadley, MA
http://www.mtholyoke.edu/acad/biol/g_gillis.html

Education.

1997 Ph.D. Ecology and Evolutionary Biology, University of California, Irvine

1990 B.S. (Biology), B.A. (History), Magna Cum Laude. Pacific Lutheran University

Professional Experience.

Present: Assistant Professor of Biological Sciences, Mount Holyoke College; Member of Neuroscience and Behavior Program, Mount Holyoke College; Member, Graduate Program in Organismic and Evolutionary Biology, University of Massachusetts, Amherst

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2001–2002: Postdoctoral Research Associate, Concord Field Station, Harvard University

1998–2001: N.I.H. Postdoctoral Fellow, Concord Field Station, Harvard University

1998: Lecturer, U.C. Irvine School of Biological Sciences (Functional Anatomy)

1990–1991: Biological Technician, Alaska Fisheries Science Center

1989: Vertebrate Zoology Intern, National Museum of Natural History, Washington D.C.

Awards and Honors. 1994: Stoye Award, Best Student Paper in Genetics, Development and Morphology, American Society of Ichthyologists and Herpetologists; 1998–2001: NIH National Research Service Award; 2002–Present: Writer, Outside JEB; 2004 NSF DDIG Advisory Panel

SICB Activities.

Member 1991–present; D. Dwight Davis Award Committee 1999; co–chair of numerous contributed paper sessions; invited participant in several symposia; published and reviewed papers for *American Zoologist* and *Integrative and Comparative Biology*.

Research Interests.

1. Biomechanics, functional morphology, and neuromuscular control of vertebrate locomotion
2. Musculoskeletal design, physiology, and evolution
3. Ecological and evolutionary transitions between aquatic and terrestrial environments, and their effects on organismal structure and function

Publications. 25 refereed publications plus 2 book reviews and 8 popular science contributions

Five most recent publications:

Gillis, G.B and A.A. Biewener. 2003. The importance of functional plasticity in the design and control of the vertebrate musculoskeletal system. In *Vertebrate Biomechanics and Evolution* (ed. V.L. Bels, J.P. Gasc, and A. Casinos). Bios Scientific Publishers Ltd., Oxford.

Azizi, E., G.B. Gillis and E.L. Brainerd. 2002. Morphology and mechanics of myosepta in swimming salamander (*Siren lacertina*). *Comp. Biochem. Physiol. A.* 133:967–978.

Gillis, G.B. and A.A. Biewener. 2002. Effects of surface grade on proximal hindlimb muscle strain and activation during rat locomotion. *J. Appl. Physiol.* 93:1731–1743.

Ashley–Ross, M.A. and G.B. Gillis. 2002. A brief history of functional morphology. *Integ. and Comp. Biol.* 42: 183–189.

Gillis, G.B and R.W. Blob. 2001. How muscles accommodate movement in different physical environments: aquatic versus terrestrial locomotion. *Comp. Biochem. Physiol. A.* 131:61–75.

Other Memberships. American Physiological Society (APS), American Society for Biomechanics (ASB), Sigma Xi, The Society for Experimental Biology (SEB)

Goals as Secretary. I have been an active member of SICB since I started graduate school in 1991. Of all the societal meetings I attend, none comes close to fostering the sort of environment for students that SICB does: the science is great, the social scene(s) good fun, and, perhaps most importantly, you have the opportunities to meet and exchange ideas with people ranging from the president of the society to an undergraduate attending her/his first meeting. As someone that has been pleasantly reaping the benefits of these meetings for close to 15 years, I'd like to start playing a more active role in ensuring that the society continues to put these meetings, and the experiences for students (graduate and undergraduate), at the top of its priority list. I would also like to be sure that we keep an appropriate balance between maintaining our identity as a vital division and resource for all things vert. morph., and coordinating activities with other divisions so as to continue the progress we have been making toward integrating the various approaches and conceptual frameworks central to organismal biology more broadly.

Oh, and one more thing...despite the fact that people tell me I'm going deaf and (I know) my handwriting is one step beyond atrocious, I assure you that, as secretary, I will listen, take notes and communicate ideas with abandon.

Luc Devroye, Brian Hall, Linda Hutcheon, Margaret Lock and Nahum Sonenberg to receive \$100,000 Killam Prizes for 2005

Ottawa, March 30, 2005 – Five prominent scholars from McGill University, Dalhousie University and the University of Toronto will be honoured with the 2005 Killam Prizes, Canada's most distinguished annual awards for outstanding career achievements in engineering, natural sciences, humanities, social sciences and health sciences.

The \$100,000 awards to Luc Devroye, Brian Hall, Linda Hutcheon, Margaret Lock and Nahum Sonenberg were announced today by the Canada Council for the Arts, which administers the Killam program.

The Killam Prizes, inaugurated in 1981, are financed through funds donated to the Canada Council by Mrs. Dorothy J. Killam in memory of her husband, Izaak Walton Killam. The prizes were created to honour eminent Canadian scholars and scientists actively engaged in research, whether in industry, government agencies or universities. When the Canada Council was created in 1957, its mandate was to support both the arts and scholarly research; although this changed with the creation of separate research councils, the Canada Council retained responsibility for the Killam program. The Killam Fund at the Canada Council was valued at approximately \$56 million as of March 31, 2004. The Killam Trusts, which fund scholarship and research at four Canadian universities, a research institute and the Canada Council, are valued at approximately \$400 million.

The Canada Council will present the Killam Prizes at a dinner and ceremony on Monday, April 25 at the Ritz–Carlton Hotel in Montreal. The media are invited to cover the ceremony, which will begin at approximately 8:30 p.m.

Luc Devroye – Engineering (McGill University)

Luc Devroye is a Professor of Computer Science and an associate member of the Department of Mathematics and Statistics at McGill University. His research covers a broad area of applied mathematics, including computer science, statistics and probability theory.

Born in Tienen, Belgium, Dr. Devroye's undergraduate university training was at the University of Leuven, Belgium, where he obtained a B.Eng. in Electrical Engineering in 1971. He finished his education at the University of Texas at Austin, where he received his Ph.D. in Electrical Engineering in 1976. In 1977, Dr. Devroye was appointed Assistant Professor at McGill University where he was successively Assistant Professor (1977–1981), Associate Professor (1981–1987) and Professor (1987 –present). He was named a James McGill Professor in January 2003.

Luc Devroye's research interests include the probabilistic analysis of algorithms, nonparametric estimation, pattern recognition, and random number generation. His Ph.D. supervisor in Texas, Terry Wagner, had asked him to read the ground–breaking paper of Vapnik and Chervonenkis (1971) which was one of the main catalysts for the new field of machine learning (how to extract information from random data in order to predict, estimate and classify). Extensions and improvements of Vapnik's theory led Dr. Devroye to a number of results in the areas of statistical pattern recognition and nonparametric density estimation. Between 1983 and 2000, he systematically developed a broad theory of density estimation based on combinatorial principles.

In addition to his scientific papers he has published six books, including Non–Uniform Random Variate Generation (Springer Verlag, New York, 1986), A Probabilistic Theory of Pattern Recognition (Springer Verlag, New York, 1996, with L. Györfi and G. Lugosi), and Combinatorial Methods in Density Estimation

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(Springer Verlag, New York, 2001, with G. Lugosi).

Dr. Devroye was awarded an E.W.R. Steacie Memorial Fellowship (1987), and a Research Award from the Alexander von Humboldt Foundation in Germany (2004). He became an honorary member of the Belgian Statistical Society in 1997. He has been the recipient of an honorary doctoral degree from the Université catholique de Louvain, Belgium (2002). He has served on the editorial boards of numerous Canadian and international mathematics and computer science journals.

Dr. Devroye has been active on a number of other issues, including the abolishment of tuition fees, and the free dissipation of knowledge to the entire world. He is a vigorous supporter of free electronic journals. He has joined many researchers in projects that would place books, survey papers and didactic material on public web sites. Devroye's own book on random number generation is on his web site.

Brian K. Hall – Natural Sciences (Dalhousie University)

Brian Hall is a leader in the growing field of evolutionary developmental biology, or how body structures change through evolution through changes in embryonic development. He has worked primarily on the development of the skeleton. His work has led to greater understanding of why bone loss occurs when physical activity is reduced, and is fundamental to understanding what goes awry in development to produce birth defects. He is now the George S. Campbell Professor of Biology and a University Research Professor at Dalhousie University. He served as Chairman of Dalhousie's Biology Department from 1978 to 1985.

Dr. Hall received his undergraduate and graduate training in zoology at the University of New England in Armidale, New South Wales, Australia, graduating with a B.Sc. (Hons) and Ph.D. in 1965 and 1969 respectively. He joined the faculty of Dalhousie University as Assistant Professor in 1968. In 1977, he received the first D.Sc. in Biological Sciences from the University of New England.

Since the mid-1970s, Dr. Hall and his laboratory have concentrated on research into skeletal development and evolution, especially the origins of skeletal tissues in the embryos of mice, chicks, fish, frogs, lampreys and alligators. Much of our understanding of the cell and tissue interactions that begin skeletal development comes from studies in his laboratory. Since the early 1990s, he has been instrumental in the reintegration of development and evolution into Evolutionary Developmental Biology, also known as "Evo-Devo". Largely because of Dr. Hall's work, Evo-Devo is now an established scientific field. He wrote one of the leading textbooks on Evo-Devo, a discipline that now has three scientific journals devoted to it.

Throughout his career, Dr. Hall has supervised honours and graduate students, trained post-doctoral fellows and collaborated nationally and internationally. Renowned as an outstanding teacher and lecturer, he is an Honorary Member of the Golden Key International Honour Society and has been a visiting professor at various universities in Australia and the United States. Recent recognition includes the Alexander Kowalevsky Medal from the Saint-Petersburg Society of Naturalists, election as a Foreign Honorary Member of the American Academy of Arts & Sciences, selection as one of three finalists for the Gerhard Hertzberg Gold Medal for Science and Engineering, and an Award of Excellence from the Natural Sciences and Engineering Research Council (NSERC). In addition to the Killam Prize, he holds a Killam Research Fellowship and was Killam Research Professor (1990-1995) and Faculty of Science Killam Professor of Biology (1996-2001) at Dalhousie University.

Linda Hutcheon – Humanities (University of Toronto)

Linda Hutcheon is University Professor of English and Comparative Literature at the University of Toronto

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and has been a visiting professor in Australia, the USA and Europe. A specialist in postmodernist culture and critical theory, she has published eight solo books, over 200 book chapters and journal articles and given over 350 public lectures. One of North America's most distinguished literary theorists, her work has promoted a greater understanding of modern fiction, parody, postmodern literature, irony, feminist theory and ethnic minority writing in Canada.

Dr. Hutcheon has been the recipient of major fellowships and awards (Woodrow Wilson, Killam [Research and Post-Doctoral], Guggenheim, Rockefeller, Connaught, Social Sciences and Humanities Research Council of Canada (SSHRC), Northrop Frye Award) and numerous honorary degrees (in Canada and Europe). In 2000, she was the 112th President of the Modern Language Association of America, only the third Canadian ever to hold this position and the first Canadian woman. In addition to her solo writings, she has also worked collaboratively in large projects involving hundreds of scholars and smaller ones, most with her spouse, Dr. Michael Hutcheon. To date, she has supervised 43 completed doctoral dissertations, with 20 more in progress, and 29 international postdoctoral projects.

It is the complex interrelation of theory with artistic practice that forms the common thread in her diverse academic work. As one of a generation formed by the so-called "rise of theory" as an independent area of literary study and influenced by her years of interdisciplinary and comparative training in institutions in the United States, Italy, and Canada, she is as interested in what art teaches us about theory as in the reverse; that focus has tended to make her work accessible to students and general readers, as well as to specialists.

Apart from her authored and edited books and articles, she has translated the work of Québec writers Félix Leclerc and Madeleine Gagnon and co-edited a book of interviews and stories on the topic of multiculturalism, a project that grew out of her experience as what she calls a "crypto-ethnic": her marital name hides a big part of her cultural identity, since her birth surname had been Bortolotti.

Her interdisciplinary collaborative work with Michael Hutcheon on the intersection of medical and cultural history, studied through the vehicle of opera, has yielded three books thus far: *Opera: Desire, Disease, Death* (1996); *Bodily Charm: Living Opera* (2000); *Opera: The Art of Dying* (2004). Supported by a SSHRC grant, they are currently studying creativity and age in the late style and lives of opera composers.

Margaret Lock – Social Sciences (McGill University)

Margaret Lock is the Marjorie Bronfman Professor in Social Studies in Medicine affiliated with the Department of Social Studies of Medicine and the Department of Anthropology at McGill University. Her particular interest is the relationship among society and culture, technology and the body in health and illness. She has done research in Japan into the revival of traditional medicine, and into social aspects of life cycle transitions including adolescence, the elderly and female midlife.

During the 1990s, Dr. Lock's research focus shifted to a cultural analysis of new biomedical technologies, notably reproductive technologies and organ transplants. Such technologies permit manipulation of what are assumed to be timeless boundaries between nature and culture, thus creating extensive social and moral issues. Lock documented in detail the contested medical, political and ethical debates in Japan and North America in connection with the ambiguous condition of brain death, a condition in which, as a result of technological intervention, patients who have sustained irreversible brain damage can be kept biologically alive.

In recent years, Dr. Lock has started to investigate the implications for society of the rapidly expanding knowledge in molecular and population genetics. She has completed research in connection with the Human Genome Diversity Project, which involved the procurement of genetic material from minority peoples and

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incited widespread political unrest. Her current project is concerned with dementia, in particular late onset Alzheimer's disease. She has given presentations on her findings at international Alzheimer's conferences, and is writing a monograph based on ethnographic research that illustrates how the various fields of study are brought together in the ongoing search for causes, preventive measures, and effective therapies for the disease.

Dr. Lock has authored four books for which she has received numerous prizes, including *Encounters With Aging: Mythologies of Menopause in Japan and North America*, and *Twice Dead: Organ Transplants and the Reinvention of Death*. She has edited or co-edited nine other books and written over 170 scholarly articles. She is a Fellow of the Royal Society of Canada, a recipient of a Canada Council Killam Fellowship (1993–1995), and a member of the Canadian Institute of Advanced Research, Population Program from 1993–2002. She was awarded the Prix du Québec, domaine Sciences Humaines in 1997, the Wellcome Medal for research in medical anthropology in 1997, the Canada Council for the Arts Molson Prize in 2002 and, in 2003, the Robert B. Textor prize for anticipatory anthropology.

Nahum Sonenberg – Health Sciences (McGill University)

Nahum Sonenberg has made enormous contributions to our understanding of molecular and cellular biology. His ground-breaking research has led to a better understanding of basic biologic processes in normal and cancer cells and this research is now playing a major role in the creation of new cancer treatments. He joined McGill University in 1979 and is currently the James McGill Professor in the Department of Biochemistry and the McGill Cancer Centre.

Dr. Sonenberg received his B.Sc. and M.Sc. (Microbiology and Immunology) from Tel–Aviv University. Upon completing his Ph.D. (Biochemistry) at the Weizmann Institute of Science (Rehovot, Israel), he joined the Roche Institute of Molecular Biology in Nutley, New Jersey with a Chaim Weizmann postdoctoral fellowship.

Dr. Sonenberg's primary research interest has been to understand the control of protein synthesis. In an initial pioneering discovery, he identified the mRNA 5– cap–binding protein, eIF4E, in 1978. He and his colleagues have continued to make highly significant contributions to our understanding of the factors involved in the recruitment of ribosomes to mRNA. He discovered the IRES (internal ribosome entry site) mechanism of translation initiation in eukaryotes (also referred to as cap–independent translation, used by various types of viruses to usurp the host cell protein synthesis machinery), as well as the regulation of cap–dependent translation by the eIF4E binding proteins (4E–BPs). He discovered that eIF4E is a proto–oncogene, levels of which are elevated in cancer, and subsequently demonstrated that rapamycin (an important anti–cancer drug) inhibits eIF4E activity. Finally, while generating 4E–BP – knock–out– mice, he and his colleagues found that this translation inhibitor plays critical roles in the metabolism of adipose tissue and in learning and memory. Dr. Sonenberg has also had a long term interest in virology, and studies poliovirus, rhinoviruses, HIV and HCV.

In 2002, Dr. Sonenberg was awarded the Robert L. Noble Prize from the National Cancer Institute of Canada. He is an International Research Scholar of the Howard Hughes Medical Institute and has been a fellow of the Royal Society of Canada since 1992. Dr. Sonenberg is also a Canadian Institutes of Health Research Distinguished Scientist.